

DT 128 SolidWorks Introduction to 3D Design and Presentation (3)*1 ½ hours lecture - 4 ½ hours laboratory***Prerequisite:** A minimum grade of 'C' in DT/ARCH 125**Recommended preparation:** DT 110**Note:** May be taken 2 times.**Transfer acceptability:** CSU

Advanced theory and hands on operation of three-dimensional software techniques. Emphasis is placed on wireframe, surface, solid, and parametric three-dimensional modeling.

DT 130 CAD/CAM Machining (3)*1 ½ hours lecture - 4 ½ hours laboratory***Prerequisite:** A minimum grade of 'C' in DT 110 and DT 128**Transfer acceptability:** CSU**Note:** Cross listed as as WELD 130. May be taken 2 times

Hands-on operation of importing three-dimensional solid and parametric three-dimensional models into CAD/CAM operations.

DT 131 SolidWorks Advanced 3D Design and Presentation (3)*1 ½ hours lecture - 4 ½ hours laboratory***Prerequisite:** A minimum grade of 'C' in DT 128**Note:** May be taken 2 times**Transfer acceptability:** CSU

Advanced theory and hands-on operation of solid and parametric three-dimensional models. Emphasis is placed on creating molds, advanced sheet metal design and developing dynamic assemblies.

DT 140 Electronic Drafting and Design (3)*1 ½ hours lecture - 4 ½ hours laboratory***Note:** May be taken 2 times**Transfer acceptability:** CSU

Electro mechanical drafting and design generally required for an entry level position in the electronic industry.

DT 180 3D Studio Max – Introduction to 3D Modeling and Animation (3)*1 ½ hours lecture - 4 ½ hours laboratory***Note:** May be taken 2 times**Transfer acceptability:** CSU

An overview of 3D Studio Max. Hands-on operation of the software to produce basic three-dimensional models and basic technical animations.

DT 182 3D Studio Max – Advanced 3D Modeling and Animation (3)*1 ½ hours lecture - 4 ½ hours laboratory***Prerequisite:** A minimum grade of 'C' in DT 180**Note:** May be taken 2 times**Transfer acceptability:** CSU

Advanced 3D Studio Max applications to create special visual effects for high-end image production. Advanced keyframing, time-based editing, controllers, and video post will be employed to master state-of-the-art rendering and animation. The class is structured to help students start using 3D Studio Max in a production environment.

DT 184 Real Time 3D Technical/Game Animation (2)*1 hour lecture - 3 hours laboratory***Note:** May be taken 2 times**Transfer acceptability:** CSU

Students will create interactive 3D applications using a direct X base real time engine for the game industry, computer based training and product visualization.

DT 196 Special Problems in Computer Aided Drafting (1, 2, 3)*3, 6, or 9 hours laboratory***Note:** May be taken 4 times for a maximum of 9 units**Transfer acceptability:** CSU

This is an advanced course designed to aid the student in the enrichment of an area of concentration in AutoCAD and third party drafting software and is of a research nature. Content to be determined by the need of the student under signed contract with the instructor.

DT 197 Drafting Technology Topics (.5 - 4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Note: May be taken 4 times**Transfer acceptability:** CSU

Topics in Drafting. See class schedule for specific topic covered. Course title will designate subject covered.

DT 202 Introduction to Revit Architecture (3)*1 ½ hours lecture - 4 ½ hours laboratory***Recommended preparation:** ARCH 200**Note:** Cross listed as as ARCH 202. May be taken 2 times**Transfer acceptability:** CSU

Preparation of basic 3D architectural information models and (BIM). Manipulation for preparation of individual architectural working drawings, including: dimensioned floor plans, building sections, elevations, etc. using Revit software.

DT 210 Printed Circuit Board Design (3)*1 ½ hours lecture - 4 ½ hours 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)*1 ½ hours lecture - 4 ½ hours laboratory***Prerequisite:** A minimum grade of 'C' in 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.

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 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: MD-375

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
Group I (Select 6 units)		
ECON 110	Comparative Economic Systems	3
ECON 115	Economic History of the United States	3
ECON 295	Directed Study in Economics	3
IBUS 100	Intro to Int'l Business Management	3
Group II (Select 7-8 units)		
MATH 110	College Algebra	4
MATH 120	Elementary Statistics	3
MATH 130	Calculus for the Social Sciences	4
Group III (Select 3 units)		
CSIT 105	Computer Concepts and Applications	3
PHIL 115	Critical Thinking	3
TOTAL UNITS		22 - 23

COURSE OFFERINGS

ECON 100 Basic Economics (3)

3 hours lecture

Note: Not intended for programs which require Principles of Economics ECON 101 and/or 102

Transfer acceptability: CSU; UC – no credit if taken after ECON 101 or 102

A study of the American economic system as it affects the decision making of the individual as income earner, taxpayer, and voter. Emphasis is on application of the analyses of supply and demand, productivity, wages and the labor force, the money and banking system, the role of government, and domestic and international economic issues.

ECON 101 Principles of Economics (Macro) (3)

3 hours lecture

Prerequisite: A minimum grade of 'C' in MATH 60

Transfer acceptability: CSU; UC

Descriptive analysis of the structure and functioning of the economy of the United States. Emphasizes national income, problems of inflation and unemployment, the role of government, specifically fiscal and monetary policies, money and banking, economic growth, and analysis of global issues.

ECON 102 Principles of Economics (Micro) (3)

3 hours lecture

Prerequisite: A minimum grade of 'C' in MATH 60

Transfer acceptability: CSU; UC

Analyzes decision-making of individuals and groups as it relates to economic behavior. Examines market structures and resource markets under varying degrees of competition. Investigates causes of market failures such as public goods and externalities. Includes international trade and finance.

ECON 110 Comparative Economic Systems (3)

3 hours lecture

Transfer acceptability: CSU; UC

A study of various types of economic institutions and decision making systems. Emphasis is given to the theories of capitalism, Marxian economics, and the various types of social market economies. The theories will be applied to the study of several countries, including the former Soviet Union, Japan, China, Mexico, and a Western European country, as they compare to the United States.

ECON 115 Economic History of the United States (3)

3 hours lecture

Transfer acceptability: CSU; UC

Development of the United States economy from the colonial period to the present. Emphasis will be on the evolution of such institutions as labor unions, business, banking, and government. Economic theory will be used to analyze historical problems.

ECON 197 Economics Topics (.5 - 4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Note: May be taken 4 times

Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.

Topics in Economics. See Class Schedule for specific topic offered. Course title will designate subject covered.

ECON 295 Directed Study in Economics (1, 2, 3)

3, 6, or 9 hours laboratory

Prerequisite: Approval of project or research by department chairperson

Note: May be taken 4 times

Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.

Independent study for students who have demonstrated a proficiency in economics subjects and have the initiative to work independently on projects or research that does not fit into the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Education (ED)

Contact Reading Services for further information.

(760) 744-1150, ext. 2568

Office: RC-1

COURSE OFFERINGS

ED 200 Careers in Teaching (3)

3 hours lecture

Transfer acceptability: CSU; UC

An overview of the teaching profession for those students contemplating a career in education. Foundations of education, critical issues in the classroom, and the history and philosophy of education are addressed. Effective and active learning, diversity in the classroom and teaching profession standards are discussed. Guided classroom observations (45 hours) of a K-12 classroom in a variety of subject areas are a requirement for this course.