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 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 polution, 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

Earth Sciences-Economics

(3)

Group I (Select 6 units)

(3)

TOTAL UNITS		22 - 23
PHIL 115	Critical Thinking	3
CSIT 105	Computer Concepts and Applicatons	3
Group III (Se	,	
MATH 130	Calculus for the Social Sciences	4
MATH 120	Elementary Statistics	3
	College Algebra	4
MATH 110	,	4
Group II (Se	lect 7-8 units)	
IBUS 100	Intro to Int'l Business Management	3
ECON 295	Directed Study in Economics	3
ECON 115	Economic History of the United States	3
	· · · · · ·	3
ECON 110	Comparative Economic Systems	2

COURSE OFFERINGS

ECON 100 Basic Economics

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)
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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, laboratory, or lecture/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 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.

ED 201 Literacy Instruction (3)

3 hours lecture

Transfer acceptability: CSU

This course is designed for both the student who is considering a career in teaching as well as the prospective literacy tutor. The basic process of literacy acquisition is presented as well as literacy strategies for the emerging and developing reader. The literacy dynamics of a multicultural learning environment will also be presented. 20 hours of literacy training required.

Electrician Trainee (ELTR)

Contact Occupational & Noncredit Programs for further information. (760) 744-1150, ext. 2284 Office: AA-138

Certificates of Achievement -

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

PROGRAM OF STUDY

Electrician Trainee

The Electrician Trainee program prepares the student in the elements of electrical inside construction in compliance with the requirements of State of California for non-certificated electricians. Upon completion of the program, the student is eligible to take the California State Electricians Certification exam.

CERTIFICATE OF ACHIEVEMENT*

Program Rec	uirements	Units
ELTR 101	Introduction to the Electrical Trade and Industry	
	and Construction Safety	3.5
ELTR 102	Introduction to Electrical Theory, Basic Algebra	
	Concepts, and the National Electric Code	3.5
ELTR 103	Advanced DC Circuit Concepts, Introduction to	
	3Ø Circuits, and National Electric Code Applications	3.5
ELTR 104	AC Circuit Concepts, Applied Electronics, and	
	National Electric Code Applications	3.5

TOTAL UNI	TS	35
ELTR 110	Specialty Systems	3.5
	Management, and Test Equipment	3.5
ELTR 109	Transformer Theory, Leadership and	
	Supplies, and National Electric Code	3.5
ELTR 108	Motor Control Principles, Generators and Power	
	National Electric Code	3.5
	Specifications, Motor Design and Installation, and	
ELTR 107	Grounding Systems, Advanced Blueprints and	
	and Specifications, and National Electric Code	3.5
ELTR 106	Overcurrent Protection, Lighting Systems, Basic Blue	prints
	and Applications, and National Electric Code	3.5
ELTR 105	Digital Logic Circuits, Conductor Characteristics	

* Electrician Trainee Certificate of Achievement pending approval by the California Community Colleges System Office at the time of catalog publication.

COURSE OFFERINGS

ELTR 101 Introduction to the Electrical Trade and Industry and Construction Safety (3.5)

3 hours lecture- 11/2 hours laboratory

Note: May be taken 4 times

(3)

Examines safety issues surrounding construction jobsites and installation of electrical systems. Includes OSHA 10 certification, identification of job-site hazards, safe work practices and personal protective equipment for various construction site hazards. Care for breathing and cardiac emergencies along with basic first aid and AED training for both adults and children is covered. Substance abuse will be addressed. Basic math operations will be reviewed and reinforced.

ELTR 102	Introduction to Electrical Theory, Basic Algebra	
	Concepts, and the National Electric Code	(3.5)
- · ·		

3 hours lecture- 1 1/2 hours laboratory **Note:** May be taken 4 times

Provides an introduction to algebraic and trigonometric concepts and application of their principles to solve basic electrical equations and layout conduit bends. Teaches the student to apply basic electrical theory to predict circuit behavior. Basic conduit bending techniques will be developed. The National Electric Code will be introduced.

ELTR 103	Advanced DC Circuit Concepts, Introduction to 3Ø Circuits, and National Electric Code	
	Applications	(3.5)
3 hours lecture-	1 1/2 hours laboratory	
Recommended	preparation: ELTR 102	

Note: May be taken 4 times

Study of circuit analysis techniques, series, parallel, and combination DC circuits, test instruments, National Electric Code (NEC), and elementary 3Ø circuits.

ELTR 104 AC Circuit Concepts, Applied Electronics, and National Electric Code Applications (3.5)

3 hours lecture- 11/2 hours laboratory

Recommended preparation: ELTR 103

Note: May be taken 4 times

Study of AC theory, exploration of inductance and capacitance and the effect of their reactance on AC circuits and the application of electronic concepts and components.

ELTR 105 Digital Logic Circuits, Conductor Characteristics and Applications, and National Electric Code (3.5)

3 hours lecture- 1 1/2 hours laboratory

Recommended preparation: ELTR 104

Note: May be taken 4 times

Study of digital logic concepts and their real-world application. Identification, selection, and installation of electrical conductors.

ELTR 106	Overcurrent Protection, Lighting Systems, Bas Blueprints and Specifications, and National	ic
	Electric Code	(3.5)
3 hours lecture-	11/2 hours laboratory	
	ed preparation: ELTR 105	

Students must receive a grade of 'C' or better in each course that applies to an A.A. Degree Major or Certificate