

CERTIFICATE OF ACHIEVEMENT

The Engineering Technology, Power Utility Certificate of Achievement is an 18-month to two year program that prepares students for employment in Power Production. This program integrates two hands-on Co-Op/Internships in Operation, Electricity, and Hydro/Electricity that provide students with a wide-range of experiences. This program is presented in cooperation with the U.S. Bureau of Reclamation.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Identify the occupational positions available in the Power Utility and other power generating plants.
- Participate in an on-the-job training experience in a power generating plant or dam.
- Identify acceptable work performance standards.
- Develop positive attitudes towards work and service to others.

GENERAL EDUCATION REQUIREMENTS (6 Credits):

	CR	SEMESTER
COMMUNICATIONS:	3	_____
ENG 107		
MATH	3	_____
MATH 111B, 116, 124, 126, 127 or higher		

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
MT 102B Fundamentals of Electricity	4	_____
MT 104B Industrial Electricity	4	_____
MT 106B Mechanical Power Transmission	4	_____
MT 108B Fluid Power	4	_____
MT 115B Programmable Logic Controllers I	3	_____

Plus 9 credits from the following:

FOR ELECTRICAL MAINTENANCE:

EGG 131 Technical Physics I	4	_____
ESH 207B Introduction to Safety Management	3	_____
ESH 240B Wastewater Treatment I	3	_____
ET 100B Survey of Electronics	3	_____
ET 104B Fabrication and Soldering Techniques	.5-6	_____
ET 106B Test Equipment Operation	3	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____
MT 180B Co-Op/Internship First Semester	3	_____

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	CR	SEMESTER
FOR MECHANICAL MAINTENANCE:		
EGG 131 Technical Physics I	4	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____
MT 180B Co-Op/Internship First Semester	3	_____
WELD 130B Welding Support Equipment Operations	3	_____
WELD 132B Oxy/Fuel, Plasma and Carbon Arc-Air Cutting Operations	2	_____
WELD 133B SMAW (Stick)	4	_____
WELD 134B GTAW (Tig)	4	_____
FOR PLANT OPERATIONS:		
EGG 131 Technical Physics I	4	_____
EMA 101 Principles of Emergency Management	3	_____
EMA 102 Disaster Mitigation and Preparedness	3	_____
ESH 207B Introduction to Safety Management	3	_____
ET 100B Survey of Electronics	3	_____
ET 104B Fabrication and Soldering Techniques	.5-6	_____
ET 106B Test Equipment Operation	3	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____
MT 180B Co-Op/Internship First Semester	3	_____

Computation included in MATH 111B, 116, 124, 126, 127 or higher

Human Relations included in MT 106B

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.