

Butte College
Certificate of Achievement
Engineering Support Technician

1. Statement of Program Goals and Objectives

This certificate is designed to assist students who want to learn necessary skills that are used in the engineering and manufacturing industries at the middle-skill technical technician level (Engineering Support Technician). Along with a STEM-based certificate, this certificate of achievement will provide the student with hands-on skill development needed to be successful in a variety of areas in the form of a core course work, built-in internship with area industry partners and prepared to certify in industry-recognized certification.

Upon successful completion of the program, students will be and/or be able to:

- Utilize software to analyze, sort, and record data.
- Interpret technical drawings.
- Understand and apply programming concepts.
- Understand requirements of networking and create a basic network.
- Apply mathematical and physical science concepts and apply those in a problem-solving format.
- Apply skills acquired in specific areas of mechanical, electrical and pneumatic and hydraulic training.
- Prepared to complete industry certifications.
- Ready to translate acquired skills through education, training and internship to an employment opportunity as an engineering support technician

2. Catalog Description

The Certificate of Achievement, Engineering Support Technician offers a series of courses including foundational knowledge needed for an entry level engineering support technician. The program includes a built-in internship which allows the student to obtain hands-on experience in process manufacturing industries. Students will also be prepared to take an industry recognized certification exam.

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3. Program Requirements

Requirements	Course	Title	Units	Sequence
Required	BCIS-85	Microsoft Excel for Windows	3	Yr 1 – Fall
Required	CSCI-4	Introduction to Programming Concepts and Methodologies	3	Yr 1 - Spring
Required	CSCI-19	Computer Networking Fundamentals	3	Yr 1 - Fall
Required	DFT-16	Print Reading for Industry and Manufacturing	3	Yr 1 - Winter
Required	ENGR-95	Special Studies- ENGR	1	Yr 1 – Winter
Required	ENGR-99	Work Experience-ENGR	3	Yr 1 – Spring
Required	ITEC-55	Introduction to Industrial Trades	2	Yr 1 Fall
Required	MATH-20	Trigonometry	3	Yr 1 – Fall
Required	PHYS 21	College Physics I	4	Yr-1 - Spring

Required Major Total: 25 units
TOTAL UNITS: 25 units

Proposed Sequence: See above.