

# ENGINEERING SYSTEMS TECHNOLOGY

## Technical Certificate



### Program and Career Description:

The Technical Certificate in Engineering Systems Technology is a one-year program designed to prepare graduates for many different careers related to manufacturing with an emphasis on technology, critical thinking, and problem solving. Students will take courses in the basic fundamentals of industrial technology and move to more advanced applications including Programmable Logic Controls.

Career	Entry-Level Pay	Median Pay	Experienced Pay
Industrial Machinery Mechanics	\$32,150	\$46,460	\$56,690
Maintenance Workers, Machinery	\$27,920	\$45,480	\$55,710
Electrical/Electronic Engineering Technicians	\$38,190	\$54,600	\$64,270
Maintenance and Repair Workers	\$25,060	\$36,460	\$44,810

Career and salary information taken from [JOBS4TN.GOV](http://JOBS4TN.GOV). Check out this website for additional information about job descriptions, education requirements and abilities, and supply and demand for these careers. For additional information from a national perspective, go to Bureau of Labor Statistics, U. S. Department of Labor on the internet at [www.bls.gov](http://www.bls.gov). Visit the [Occupational Outlook Handbook](#) on this website. Salaries are not guaranteed.

This technical certificate will be an embedded certificate within the Engineering Systems Technology A.A.S. degree. Upon successful completion of the certificate program, students will be afforded the opportunity to complete industry certification exams.

### Sample Academic Plan

#### First Year - Fall Semester

		Credit Hours
___	EETC 1311 Electrical Circuit I	3
___	ENST 2361 Fluid Power Systems	3
___	ENST 2199 Special Topics: Industrial Safety	1
___	Total In First Year - Fall Semester	7

#### First Year - Spring Semester

___	EETC 2361 Instrumentation Technology	3
___	ENST 1360 Mechanical Power Transmission	3
___	EETC 2333 Industrial Electric Control	3
___	EETC 2332 PLC I	3
___	Total in First Year - Spring Semester	12

#### TOTAL CREDIT HOURS

19

For more information about our graduation rates, the median debt of students who completed the program and other important information, please visit our web site at <https://www.columbiastate.edu/docs/default-source/academics/gainfulemploymentest.pdf?sfvrsn=0>

2018-2019 Catalog Draft

### Requirements for Certificates include:

- Total certificate hours must be at least 19.
- earning 25% of total program credits in residence at Columbia State.
- GPA of at least 2.0 in courses required for the certificate.

#### For more information contact:

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Science, Technology and Math Division office at 931.540.2710



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