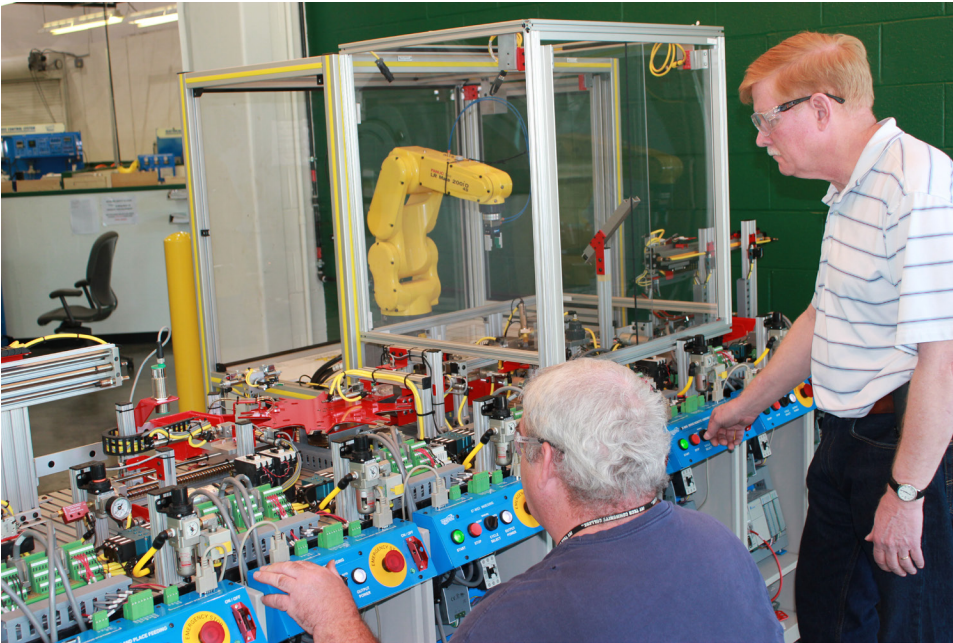


ENGINEERING SYSTEMS TECHNOLOGY

Associate of Applied Science degree



Program and Career Description:

The Associate of Applied Science in Engineering Systems Technology is a two-year degree 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 engineering technology and move to very advanced applications including robotics. This degree is accredited by The Association of Technology, Management, and Applied Engineering (ATMAE).

How is the Job Market?

Check out www.jobs4tn.gov website for 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. Visit the [Occupational Outlook Handbook](#) on this website. Salaries are not guaranteed.

Transfer Options

This degree program is in compliance with the Common Course Curriculum Library for the A.A.S. in Engineering Systems Technology program as delivered by the Tennessee Board of Regents community colleges.

This degree program is not designed for transfer to a four year college or university. However, some agreements are in place that will allow credit to be given for a portion or the entirety of this degree path. Please check with the transfer institution or your advisor for specific details.

Transfer agreements exist between other private and non-TN public institutions. These agreements are available at www.columbiastate.edu/transfer-information.

Requirements for Graduation include:

- earning 25% of total program credits in residence at Columbia State.
- earn a GPA of at least 2.0 or higher.
- earn a cumulative GPA of 2.0 or higher.
- taking the Exit Exam.

For more information contact:
Mehran Mostajir at mmostajir@columbiastate.edu
or 931.540.2711 or 931.398.8868

or
Science, Technology and Math Division office
at 931.540.2710 or stm@columbiastate.edu

Student ID: _____
 Student Name: _____
 Adviser Name: _____

Catalog: 2020-2021 Catalog and Student Handbook
 Program: Engineering Systems Technology, A.A.S.
 Minimum Credits Required: _____

Engineering Systems Technology, A.A.S.

Major in Engineering Systems Technology (A.A.S.)

Sample Academic Plan - Total Credit Hours: 62

Program Requirements - Students may be required to take additional Learning Support courses. Courses cannot be used more than once to satisfy program requirements.

First Year - Fall Semester - Credit Hours: 13

Course Name	Credits:	Term Taken	Grade	Gen Ed
EETC 1311 - Electric Circuits	Credits: 3			
ENST 1350 - Industrial Safety	Credits: 3			
ENST 1370 - Manufacturing Processes	Credits: 3			
³ General Education - Mathematics Requirement	Credits: 3			
COLS 101 - Columbia State College Success	Credits: 1			

First Year - Spring Semester - Credit Hours: 15

Course Name	Credits:	Term Taken	Grade	Gen Ed
ENGL 1010 - English Composition I	Credits: 3			
INFS 1010 - Computer Applications	Credits: 3			
ENST 1360 - Mechanical Power Transmission	Credits: 3			
ENST 2361 - Fluid Power Systems	Credits: 3			
EETC 2333 - Industrial Electronic Controls	Credits: 3			

First Year - Summer Semester - Credit Hours: 6

Course Name	Credits:	Term Taken	Grade	Gen Ed
² General Education - Humanities/Fine Arts Requirement (recommend MUS 1030)	Credits: 3			
⁵ General Education - Social/Behavioral Science Requirement (recommend PHED 2120)	Credits: 3			

Second Year - Fall Semester - Credit Hours: 16

Course Name	Credits:	Term Taken	Grade	Gen Ed
PSCI 1030 - Survey of Physical Science	Credits: 4			
EETC 2361 - Instrumentation Technology	Credits: 3			
EETC 2332 - PLC II	Credits: 3			
EETC 2350 - Integrated Robotics	Credits: 3			
EETC 2311 - Power Technology OR EETC 2399 Special Topics* OR ENST 2399 Special Topics*	Credits: 3			

Second Year - Spring Semester - Credit Hours: 12

Course Name	Credits:	Term Taken	Grade	Gen Ed
ENST 1311 - Computer Aided Design I	Credits: 3			
ENST 2391 - Internship	Credits: 3			
COMM 2025 - Fundamentals of Communication	Credits: 3			
ENST 2382 - Fundamentals of Mechatronics	Credits: 3			

General Education Requirements (Only When Option Noted Above)

¹**History Requirement** - Select from HIST 2010, HIST 2020, HIST 2030, HIST 2310, HIST 2320.

²**Humanities/Fine Arts Requirement** - Select from ART 1035, ART 2000, ART 2020, ENGL 2160, ENGL 2860, HUM 1010, HUM 1020, MUS 1030, PHIL 1030, PHIL 1040, PHIL 2200, THEA 1030. **Literature Options:** ENGL 2055, ENGL 2130, ENGL 2235, ENGL 2310, ENGL 2320.

³**Mathematics Requirement** - Select from MATH 1010, MATH 1130, MATH 1530, MATH 1630, MATH 1710, MATH 1720, MATH 1730, MATH 1830, MATH 1910.

⁴**Natural Sciences Requirement** - Select from ASTR 1030, BIOL 1010, BIOL 1020, BIOL 1080 (*must pair with non-biology course except for BIOL 2010 or BIOL 2020*), BIOL 1110, BIOL 1120, BIOL 2010, BIOL 2020, CHEM 1110, CHEM 1120, ESCI 1010, ESCI 1020, PHYS 2010, PHYS 2020, PHYS 2110, PHYS 2120, PSCI 1030.

⁵**Social/Behavioral Science Requirement** - Select from ANTH 1230, ANTH 1430, COMM 1010, ECON 2100, ECON 2200, GEOG 2010, PHED 2120, POLS 1010, POLS 1030, POLS 2025, POLS 2035, PSYC 1030, PSYC 2130, SOCI 1010, SOCI 1040, SOCI 2010.

Note(s):

*The Topic could be Advanced Mechanical, Intermediate Hydraulic/Pneumatic Control, or Advanced Variable Frequency Drive.

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Students and advisors should run a degree audit from myChargerNet each semester to confirm classes are applicable to the program of study.

For more information contact:

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