



# ENGINEERING TECHNOLOGY

## PROCESS AND CONTROLS OPTION

Three Rivers' AAS Degree in Engineering Technology gives you the skills needed to succeed in the industrial technology field.

**ELECTRICAL CONTROL SYSTEMS • AUTOMATION/ROBOTIC SYSTEMS**  
**INDUSTRIAL MAINTENANCE • MANUFACTURING ENGINEERING SUPPORT**

Three Rivers is a great place to start career training. We offer affordable costs, financial aid, A+ Incentive, convenient classes, and hands-on training.

# Three Rivers College

THE COMMUNITY COLLEGE OF SOUTHEAST MISSOURI

(573) 472-5223

TRCC.EDU

# Engineering Technology (AAS)

## Process and Controls Option

Degree Type: Associate of Applied Science

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Purpose: Career and Technical Education. This option in the Engineering Technology program focuses on the knowledge and skills necessary for success in the installation and maintenance of commercial and industrial systems. This degree options prepares students for entry-level employment and provides a foundation for future advancement in the industrial technology and manufacturing sectors, as well as entry into university-level technology programs.

Courses			Hours
ELEC	115	Applied DC & AC Circuits	3
ENGL	111	College Writing	3
ENGR	106	Technical Math I <sup>(1)</sup> -or-	3-4
MATH	103	Intermediate Algebra	
(or higher MATH course)			
ENGR	110	Engineering Graphics -or-	3
MEDR	135	Blueprint Reading & Gauging	
SCOM	110	Public Speaking	3
Total Hours			15-16

Courses			Hours
ELEC	117	Industrial Electrical Controls	3
ENGR	107	Technical Math II <sup>(1)</sup> -or-	3
MATH	163	College Algebra	
(or higher MATH course)			
ENGR	198	Workplace Readiness	3
MAFT	228	Quality Assurance Fund.	3
MAFT	229	Intro to Safety & Health	3
MAFT	255	Hydraulics & Pneumatics	3
Total Hours			18

Courses			Hours
ELEC	207	Industrial Electronics Apps	3
ELEC	216	Programm. Controller Sys	3
ELEC	218	Elec. Codes & Standards	2
GOVT	121	National & State Govt.	3
MAFT	119	Robotics I	3
PHYS	100	Survey of Physics -or-	3-5
PHYS	101	Physical Science	
Total Hours			17-19

Courses			Hours
ENGR	297	Internship <sup>(2)</sup>	6
MAFT	215	Mechatronics Capstone	3
MAFT	219	Robotics II	3
MEDR	246	Computer Aided Mach. I	3
Total Hours			15

<sup>(1)</sup> Students planning to transfer to a four-year institution should substitute MATH-163, MATH-164, or MATH-171.

<sup>(2)</sup> Students with extensive full-time industry experience and instructor approval may substitute six credit hours of approved coursework.

Please see individual course descriptions for prerequisites, corequisites, and/or other requirements.

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