

ELECTRONIC ENGINEERING TECHNOLOGY

J. Erik Robey, BS, PE/PS, **Chair**
 Phone: (419) 995-8071
 Email: robey.e@RhodesState.edu
 Office: JJC 132

Electronic Engineering Technology encompasses the study of electronic engineering technologies. Students desiring a broad-based education or who desire to possibly pursue a bachelor's degree in Electronic Engineering Technology should consider enrolling in the Electronic Engineering Technology program.

Electronic engineering technicians use state-of-the-art measuring and diagnostic equipment. While engineering principles, mathematics, and physics provide a theoretical base, practical (hands-on) experience is also important. Technicians will learn to design, build, and troubleshoot electronic circuits on their own. Students begin by analyzing basic series and parallel DC and AC circuits and progress through amplifiers and integrated circuits. The program also includes digital logic, microprocessor studies, and programmable logic controllers. These devices monitor and control various processes automatically. The aim of the curriculum is to teach hardware and software programming design and implementation of this equipment, as well as the development of software needed for programming it.

Technical Standards

See here for details.

Tech Prep Partner

See here for details.

Electronic Engineering Technology Major Associate of Applied Science Degree

First Year

Course	Title	Hours
COM 1110	English Composition	3
EET 1110	Circuit Analysis I	3
MTH 1370	College Algebra	4
SDE 1010	First Year Experience	1
EET 2900	Electric Codes and Application	2
PHY 1120	Physics I	4
Term Hours		17

Second Semester

MTH 1430	Trigonometry	3
EET 1120	Circuit Analysis II	3
EET 1130	Electronics	4
PHY 1130	Physics II	4
Term Hours		14

Second Year

First Semester

COM 2213	Verbal Judo	3
or GER 1011	or Conversational German	
or COM 2110	or Public Speaking	

EET 2030	Motor Controls	3
EET 2911	Programmable Logic Controllers	3
EET 2991	Field Experience	1
EET 1330	Digital Circuits	4
CPT 1120	Introduction to VB Programming	3

Term Hours 17

Second Semester

PSY 1010	General Psychology	3
or SOC 1010	or Sociology	
or SOC 1320	or American Cultural Diversity	
TECHNICAL ELECTIVE		2
ENV 1300	OSHA Regulations and Safety	3
EET 2970	Electronic Engineering Technology	2
	Capstone	
EET 2310	Microcontroller Fundamentals	4

Term Hours 14

Total Hours 62

See here for Portfolio and Capstone information.

The ePortfolio requirement has been phased out and the ePortfolio indicators are being removed from the site.

Capstone

Please consult an advisor or the course description section of this catalog.

Prerequisites:

Students should check course prerequisites before registering.

Technical Electives:

Code	Title	Hours
AMT 1100	Welding and Fabrication	3
AMT 2060	Controls and Instrumentation	3
CPT 2320	C# Programming	3
EET 2200	Panel Wiring and Arc Flash Safety	3
FMS 2110	Basic Robotics and Mechatronics	3
FMS 2130	Industrial Mechatronics and Robotics	3
GET 1500	Special Topics in Engineering Technology	1-10
IMT 2170	Industrial Motor Drives	2
IMT 2260	Industrial Electronic Controls	3

Portfolio

Capstone

Rhodes State College's Electronic Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET.