OVERVIEW OF THE PROGRAM:
The Electronics Engineering Technology (EET) program at Fairmont State University is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, http://www.abet.org

The EET program prepares graduates for employment in a wide variety of industries producing and/or using electrical and electronic equipment. Our instructional strategy is designed to produce graduates with knowledge, applied skills, and experiences in engineering, but also with problem solving, critical thinking, teamwork, and communication skills required by modern industries.

In two years an Associate’s EET degree can be earned opening opportunities for a new career. The Associate’s EET program provides a thorough understanding of Digital Electronics, Circuit Analysis, Electronic Devices, Machinery Controls, Programmable Logic Controllers, and Industrial Electronics. Coursework involves theoretical analysis, software simulation and hands-on applications.

The Bachelor’s EET degree program builds on the knowledge and experiences of the Associates program. The student will receive comprehensive training in communication systems, microcontrollers, advanced linear electronics, advanced automation systems, data acquisition and control systems. During the student’s senior year a capstone project applies learned principles to develop an experimental technical application.

THEORY AND APPLICATION
The principles learned at FSU can be applied in a wide range of careers including biomedical, energy, transportation, communications, entertainment, defense, and manufacturing.

EET graduates make an impact by developing technology to improve lives. The EET graduates will design electronic components, software, products, or systems for commercial, industrial, medical, military, or scientific applications.

FOR MORE INFORMATION VISIT
www.fairmontstate.edu/collegeofscitech
EMPLOYMENT OPPORTUNITIES

According to the United State Department of Labor, Electronic and Electrical Engineers median annual wage for year 2015 was $95,000. Electrical and electronic engineers are mostly employed by industries designing, building equipment, research and development or engineering service firms. The industries that employed the most electronics engineers in 2014 were telecommunications, Federal government, engineering services, semiconductor, navigational, measuring, electro-medical, and control instruments manufacturing.

The rapid pace of technological advancements will likely drive demand for electrical and electronics engineers in research and development, an area in which engineering expertise will be needed to develop distribution systems related to new technologies. These engineers will play key roles in new developments having to do with innovations in energy, transportation and communications technologies.

NOTES:

BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING TECHNOLOGY:

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER
ENGL 1101 WRITTEN ENGLISH I .................................................................3
MATH 1510 APPLIED TECHNICAL MATH I ..................................................3
ELEC 1100 CIRCUIT ANALYSIS I .................................................................3
ELEC 1120 AC/DC ELECTRONICS ANALYSIS ..........................................3

FRESHMAN SECOND SEMESTER
ENGL 1102 WRITTEN ENGLISH II .............................................................3
MATH 1520 APPLIED TECHNICAL MATH II ...............................................3
COMP 1101 APPLIED TECH PROGRAMMING ..........................................3
ELEC 2210 CIRCUIT ANALYSIS II ..............................................................3
ELEC 2225 ELECTRONIC DEVICES .........................................................3

SOPHOMORE FIRST SEMESTER
PHYS 1101 INTRODUCTION TO PHYSICS I ...............................................4
TECH 2290 ENGR ANALYSIS I OR MATH 1585 APP CALC I .................4
GS ATTRIBUTE 10 .......................................................................................2
ELEC 2230 DIGITAL ELECTRONICS .........................................................3
ELEC 2250 AC/DC MACHINERY AND CONTROLS ..................................3

SOPHOMORE SECOND SEMESTER
PHYS 1102 INTRODUCTION TO PHYSICS II ............................................4
TECH 3300 ENGR ANALYSIS II OR MATH 1586 APP CALC II ..........4
COMM 2202 INTRO TO COMMUNICATION IN WORLD OF WORK ........3
ELEC 2240 INDUSTRIAL ELECTRONICS ..................................................3
ELEC 2280 PROGRAMMABLE CONTROLLERS ........................................3

JUNIOR FIRST SEMESTER
GS ATTRIBUTE 9 ..........................................................................................3
GS ATTRIBUTE 12 .........................................................................................3
TECHNICAL ELECTIVE ..............................................................................3
ELEC 2270 INTRO TO MICROCONTROLLER SYSTEMS .............................3
ELEC 3360 COMMUNICATION SYSTEMS ..............................................3

JUNIOR SECOND SEMESTER
GS ATTRIBUTE 6 ..........................................................................................3
GS ATTRIBUTE 16 .........................................................................................3
CHEM 1101 GENERAL CHEMISTRY .........................................................4
ELEC 3300 ADVANCED LINEAR ELECTRONICS ....................................3
ELEC 3310 ADVANCED MICROCONTROLLER SYSTEMS .......................3

SENIOR FIRST SEMESTER
GS ATTRIBUTE 14 ........................................................................................3
TECHNICAL ELECTIVE ..............................................................................3
ELEC 4410 DATA ACQUISITION AND CONTROL SYSTEMS ..................4
ELEC 4420 ADVANCED AUTOMATION CONTROLLER SYSTEMS ..........3

SENIOR SECOND SEMESTER
GS ATTRIBUTE 11 ........................................................................................3
GS ATTRIBUTE 8, 13 .....................................................................................3
TECHNICAL ELECTIVE ..............................................................................3
ELEC 4401 SENIOR ELECTRONICS PROJECT I .......................................4
ELEC 4402 SENIOR ELECTRONICS PROJECT II (WRITING INTENSIVE) ....3