Glencoe High School

Electrical Engineering Pathway

This program of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized coursework to meet each learner's educational and career goals.

Key
Carrer PAthway Academic Required Courses
Career Pathway Recommended Courses/Learner Activities
Articulated Courses
1-year Certificate
AAS Degree
University
Proposed Pathway Course

Education Levels	Grade	English / Language Arts	Math	Science	Social Studies / Sciences	Other Required Courses and Electives	Career Pathway Core Classes	Recommended Courses and/or Learning Activities	Degree or Diploma
	Grade Level	**PROGRAM OF STUDY**							
HS	**9**	English Language Arts 9	Algebra 1	Intergrated Science	World Studies	PE 1	Robotics Intro to Eng. Design	FIRST Robotics Competition	Diploma
	10	English Language Arts 10	Geometry	Biology	American Studies	Health and PE 2	Principles of Engineering	FIRST Robotics Competition	
	11	English Language Arts 11	Algebra 2	Physics	Social Studies	World Language	Digital Electronics	FIRST Robotics Competition	
	12	English Language Arts 12 or Humanities	Post Secondary Prep -Additional Year or semester of Math	Post Secondary Prep -Additional Year or semester of	Government/ Economics	World Language	Engineering Design and Development	FIRST Robotics Competition	
	TERM	**PROGRAM OF STUDY**						**Certificates/Degrees/Occupations**	
PCC	**FIRST TERM**	WR 121 English Composition	EET 101 Introduction to Electroic Testing Equipment/Soldering/Tools	EET 111 Electrical Ciruit Analysis I	EET 121 Digital Systems 1	MTH 111 College Algebra		**1-year Certificate**	
	SECOND TERM	EET 122 Digital Systems 2: Computing Systems	EET 112 Electrical Circuit Analysis II	MTH 112 Elementary Functions				Minimum 54 credits Electronic Engineering Technology (EET) is concerned with the theory and practice of applied electronics engineering. Emphasis is placed on the practical application of engineering knowledge. To apply electronics engineering knowledge requires a thorough background in mathematics and science. EET graduates possess a combination of theoretical and practical understanding and require minimal on-the-job training to become productive	
	THIRD TERM	EET 113 Electrical Power	EET 123 Digital Systems: Mixed-Signal Systems	EET 178 Comuting Environments for Technicians	EET 188 Industrial Safety				
	FOURTH TERM								
	TERM	**PROGRAM OF STUDY**					**TERM**	**Certificates/Degrees/Occupations**	
		EET 101 Intro to Electronic Testing	EET 111 Electrical Circuit	EET 121	EET 188	MTH 111			

PCC	**FIRST TERM**	Equipment/Soldering/Tools	Electrical Circuit Analysis I	Digital Systems 1	Industrial Safety	College Algebra		**Associate of Applied Science** Minimum 96 credits Graduates of an Associate of Applied Science Degree program in EET are called electronic engineering technicians and find employment in circuits and systems testing, product development, prototype construction and testing, circuit and systems medication, systems operation and manufacturing. EET graduates are expected to have good communication skills and be capable of creative problem solving, working independently and in teams. They should have extensive knowledge of both the hardware and software of electronic systems. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of sixteen credits of General Education. Some courses specified within the program may be used as General Education. Math/computation competency is met through the math course(s) required in the program of study. Students should consult with program advisors for course planning.
	SECOND TERM	EET 112 Electrical Circuit Analysis II	EET 122 Digital Systems 2: Computing Systems	MTH 112 Elementary Functions				
	THIRD TERM	EET 113 Electrical Power	EET 123 Digital Systems: Mixed-Signal Systems	EET 178 Comuting Environments for Technicians				
	FOURTH TERM	EET 221 Semiconductor Devices and Circuits	EET 242 Microcontroller and Embedded Systems	PHY 201 General Physics				
	FIFTH TERM	EET 222 Operational Amplifier Circuits	EET 241 Programming for Electronics	EET 254 Electronic Engineering Technology Seminar	PHY 202 General Physics			
	SIXTH TERM	EET 223 RF Communications Circuits	EET 256 Capstone Project or EET 280A Internship	EET 272 Motors and Motor Controls	EET273 Electronic Control Systems	PHY 203 General Physics		
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