



Information Technology

Network Systems



Course Overview: Encompass entry level, technical, and professional careers related to the design, development, and support of hardware, software, multimedia, and systems integration services.

Career Goal (O*NET Code): [Computer Systems Engineer/Architect \(15-1099\)](#), [Computer Support Specialist \(15-1041\)](#), [Computer Operator \(43-9011\)](#), [Computer Security Specialist \(15-1071\)](#).

Student's Name: _____ **Date:** _____
School: Mabank High School **Grade:** 9th 10th 11th 12th AR
Primary Endorsement: Business & Industry **Additional Endorsements:** Arts & Humanities Multidisciplinary Public Service STEM
Parent's Signature: _____ **Student's Signature:** _____

SUGGESTED COURSEWORK

EXTENDED LEARNING EXPERIENCES

Middle School	8th	HS Courses:	Algebra I Art I Health	Spanish I Touch Systems Data Entry	Curricular Experiences: Business Professionals of America Future Business Leaders of America SkillsUSA Technology Student Association Career Learning Experiences: Apprenticeship Career Preparation Internship Job Shadowing	Extracurricular Experiences: Computer Tutor Junior Engineering Technical Society Language Immersion Programs School Newspaper Student Government UIL Academic Competitions Yearbook Service Learning Experiences: Boy Scouts of America Campus Service Organizations Community Service Volunteer Girl Scouts of the USA Peer Mentoring / Peer Tutoring
High School	9th	Core Courses:	English I Algebra I or Geometry Biology	World Geography Languages other than English I Physical Education		
		Career-Related Electives:	Business Information Management I			
	10th	Core Courses:	English II Geometry or Alg II IPC or Chemistry	World History Languages other than English II		
		Career-Related Electives:	Digital Media or Web Technologies			
	11th	Core Courses:	English III Algebra II or Pre-Cal Physics	United States History Languages other than English III		
Career-Related Electives:		Computer Programming				
12th	Core Courses:	English IV Alg II, Pre-Calculus, AP Calculus, AP Statistics or Math Elective Science Elective	Government/Economics Fine Arts Languages other than English IV			
	Career-Related Electives:	Practicum in Information Technology or Dual Credit ITSC 1325, 1305 and 1391 for A+ Certification Dual Credit ITNW 1358, 1325 & 1392 for Network+ Certification Dual Credit ITSC 1316, 2325 & 1392 for Linux+ Dual Credit ITSY 1300, 1342 & 1391 for Security+				
Postsecondary	Practicum and/or Work-Based Experiences	e-Trade Technician	Computer Maintenance Technician	NOTE: These experiences may be started and/or completed as part of the high school experience.		
	Certificates	A+ Linux+	Network + Security + MOS Database Certification	OSHA CareerSafe	Career Options: Applications Specialist Programmer	Administrative Assistant Database Associate
	Associate Degrees	Cluster Foundation	Program of Study Specific Courses	15hrs General Ed Curriculum	Career Options: Network Technician Documentation Writer	Industrial Electronics Repairer Data Systems Technician Code Programmer
Bachelor Degrees	Computer Science Computer Science - Systems Computer Engineering	Computer Systems Engineering Microelectronics Biomedical Engineering	Technology Telecommunications	Career Options: Autonomy Developer Firmware Engineer	Diagnostic Engineer Manufacturing Engineer Network Engineer	
Graduate Degrees	Computer Engineering Engineering-Robotics & Control	Manufacturing Systems Network Communications	Systems Engineering Technology Project Management	Career Options: Robotics Engineer Manufacturing Engineering	Embedded Electronics Engineer Communication Network Designer	

COLLEGE CREDIT OPPORTUNITIES -- High School

Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated credit courses, if possible. List those courses that count for college credit on your campus.

This program of study (POS) serves as a guide, along with other college and career planning materials, for pursuing college and career goals. POS developed 2017. A Business & Industry endorsement as defined in 19 TAC 74.13(f)(2)(A) requires a coherent sequence of courses for four or more credits in career and technical education (CTE) that consists of at least two courses in the least one advanced CTE same career cluster, including at course, which includes any course that is the third or higher course in a sequence. The final courses in the sequence must be obtained from one of the Information Technology career cluster.