



CAREER PLAN OF STUDY: SOFTWARE DEVELOPMENT

CAREER CLUSTER: INFORMATION TECHNOLOGY

CAREER PATHWAY: PROGRAMMING AND SOFTWARE DEVELOPMENT

SAMPLE OCCUPATIONS: Computer Programmer, Computer Software Applications Engineer, Computer Software Systems Engineer, Software Quality Assurance Engineer & Tester, Numerical Tool & Process Control Programmer, Computer Systems Analyst, Game Designer

SOFTWARE DEVELOPMENT PROGRAM OF STUDY

CTE Courses offered grades 9-12

"Microsoft Technology Associate (MTA) in one or more of the following: Software Development

CERTIFICATION: Fundamentals"

HIGH SCHOOL PLAN OF STUDY	GRADE	Suggested Program of Study					
		CAREER AND TECHNICAL EDUCATION COURSES	ENGLISH (4 Credits)	MATH (4 Credits)	SCIENCE (3 Lab)	SOCIAL STUDIES (3 Credits)	OTHER REQUIRED COURSES
	9	CB30 - Exploring Comp.Science	EN09 - Freshman English	MA27 - Algebra I	SC09 - Essential Elements of Science	SS21/SS22 - World History/ Geography	Practical Art - 1 Credit OR ↓
	10	CB39 - AP Computer Science Principals	EN47 - Sophomore English	MA30 - Geometry	SC49 - Biology		Fine Arts 1 credit
	11	CB40 - AP Computer Science A	EN48 - Jr. English	MA40 - Algebra II	SC71 - Chemistry	SS34/SS35 - American/AZ History	PE - 1 Credit
	12	CT61 Computer Technology Internship	EN49 - Sr. English	MA45-PreCalculus OR MA42 -College Algebra/Trigonometry		SS51 - Government and SS77 Principles and Practices of Economics	World Language - 2 Credits university entrance
LEGEND	CTE Program of Study (Meets practical art requirement)		**Dual Enrollment Option - College credit may be available				
	Refer to each university's website for specific admission requirements						
POST SECONDARY	COMMUNITY COLLEGE		UNIVERSITY PROGRAM			TECHNICAL	
	Mesa Community College http://mesacc.edu/high-school/career-pathways		Arizona State University https://webapp4.asu.edu/programs/t5/undergrad			DeVry University www.devry.edu	
	Chandler Gilbert Community College www.cgc.maricopa.edu/Academics/Pages/Home.aspx		University of Arizona www.arizona.edu/topics/academics				
Rio Salado College www.riosalado.edu		Northern Arizona University www.nau.edu					
Go to www.mpsaz.org/cte/programs for more information on this and other CTE Programs of Study.							
CAREER PLANNING LINKS				PROFESSIONAL ORGANIZATION LINKS			
MPS Career and Technical Education - www.mpsaz.org/cte				Software & Information Industry Association - www.siiia.net			
MPS Career Planning System-Kuder Navigator-www.mpsaz.kuder.com				The League of Professional System Administrators - www.lopsa.org			
MyMPS - www.mpsaz.org/mymps							