

Key			Information Technology Software Design and Information Technology Pathway <i>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.</i>					
High School Academic								
High School Career & Technical								
PCC Dual Credit Articulated Courses								
1-year Certificate								
AAS Degree								
University								
Education Levels	Grade	English / Language Arts	Math	Science	Social Studies / Sciences	Other Required Courses Electives Recommended Electives Learner Activities	*Career and Technical Courses and/or Degree	
HS	9	Lit and Comp 9	Algebra 1	Physics	Social Studies 9	Health/PE 1	C-Programming 1 C++ Programming Information Technology 1	D I P O L M A
	10	Lit and Comp 10	Geometry	Chemistry		Health/PE 2	AP CSP Information Technology 2	
	11	Lit and Comp 11	Algebra 2	Biology	World History	Arts/Foreign Lang/CTE		
	12	Lit and Comp 12	Elective Courses	Elective Courses	Career Dev/Arts/ Foreign Lang/CTE	Personal Finance Elective Courses		
PCC	TERM		PROGRAM OF STUDY					Certificates/Degrees/Occupations
	FIRST TERM	CIS 120 Computer Concepts I	CIS 121 Computer Concepts II	CIS 122 Introduction to Programming				1-year Certificate
	SECOND TERM	CIS 140M Operating Systems I: Microsoft	PSY 201A Introduction to Psychology - Part 1	WR 121 English Composition				<div>Minimu 47 credits</div> <div>These certificates begin at an advanced level and are designed for individuals already working in, or have worked in, an information technology position.</div> <div>Students must satisfactorily complete all courses with a CIS and CS prefix with a grade of "C" or "P" or better.</div> <div>Students must contact a CIS advisor for correct placement in any of these certificate programs.</div> <div>Reading, writing and math readiness is critical for all Computer Information System (CIS) degrees and certificates. Talk to a CIS Department advisor for clarification regarding what constitutes math competency. Students with insufficient preparation to enter at this level may need to extend the time it takes to complete the program. CIS Department advisors will provide information regarding options to those students who may need to take preparatory course work.</div>
	THIRD TERM	WR 122 English Composition	CIS Program Elective	CIS Program Elective				
	FOURTH TERM	CIS Program Elective	CIS Program Elective	CIS Program Business Elective			Web Application Development includes 12 credits including CIS 133W, CIS 135M, and CIS 195P	
	TERM		PROGRAM OF STUDY				TERM	
	PCC							
FIRST TERM		CIS 120 Computer Concepts I	CIS 121 Computer Concepts II	CIS 122 Introduction to Programming Logic				Associate of Applied Science
SECOND TERM		CIS 140M Operating Systems I: Microsoft	CIS 179 Data Communication Concepts I	CIS 244 Systems Analysis	CIS Program Business Elective			<div>Minimum of 94 credits</div> <div>his degree prepares students for computer information systems related careers.</div> <div>Students will take classes in the CIS Department that include software analysis, design, programming (in two or more languages), database modeling, Windows or Unix operating systems, data communications and an extensive selection of electives. Emphasis is on developing enduring skills and knowledge, rather than on training students to use specific tools and applications that may be "fashionable," but that haven't established a foothold in industry.</div>
THIRD TERM		CIS 275 Data Modeling and SQL Introduction	WR 121 English Composition	WR 227 Technical and Professional Writing 1	CIS Program Elective			
FOURTH TERM		CIS Program Elective	CIS Program Elective	General Education	General Education			
FIFTH TERM		CIS Program Elective	CIS Program Elective	CIS Program Elective	CIS Program Business Elective			
SIXTH TERM	CIS Program Elective	CIS Program Elective	CIS Program Elective					
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