

Key									St. Helens High School													
Career Pathway Academic Required Courses			Industrial and Engineering Systems						Computer Science													
Career Pathway Recommended Courses/Learner Activities			Articulated Courses						Computer Science													
1-year Certificate			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.																			
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	Integrated Science	Global Studies	PE 1	Introduction to Computer Science		Diploma													
	10	English Language Arts 10	Geometry	Biology	Social Studies Elective - Street Law, Psychology	Health and PE 2	Computer Science A															
	11	English Language Arts 11	Algebra 2	Physics	Computer Technology	World Language	AP Computer Science A															
	12	English Language Arts 12	Post Secondary Prep -Additional Year or semester of Math	Post Secondary Prep -Additional Year or semester of Science	Government/ Economics	World Language	Website Design															
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 Logic					1-year Certificate													
	SECOND TERM	CIS 140M Operating Systems I: Microsoft	PSY 201A Introduction to Psychology - Part 1	WR 121 English Composition					Minimum 47 credits these certificates begin at an advanced level and are designed for individuals already working in, or have worked in, an information technology position. Students must satisfactorily complete all courses with a CIS and CS prefix with a grade of "C" or "P" or better.													
	THIRD TERM	WR 122 English Composition	CIS Program Elective	CIS Program Elective					Web Application Development includes 12 credits including CIS 133W, CIS 135M, and CIS 195P													
PCC	FOURTH TERM	CIS Program Elective	S Program Elective	CIS Program Business Elective											1-year Certificate							
	TERM	PROGRAM OF STUDY						TERM	Certificates/Degrees/Occupations													
	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																	
PCC	THIRD TERM	CIS 275 Data Modeling and SQL Introduction	WR 121 English Composition	WR 227 Technical and Professional Writing 1	CIS Program Elective				Minimum of 94 credits his degree prepares students for computer information systems related careers. 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.													
	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	CIS Program Elective																	
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