

St. Helens High School

Key			St. Helens High School						
Carrer Pathway Academic Required Courses			<div>Industrial and Engineering Systems</div> <div>Computer Science</div> <div>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.</div>						
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	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		
							Business Technology 1		
	11	English Language Arts 11	Algebra 2	Physics	Computer Technology	World Language	AP Computer Science A		
							Business technology 2		
	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	
	TERM	PROGRAM OF STUDY						Certificates/Degrees/Occupations	
PCC	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			Web Application Development includes 12 credits including CIS 133W, CIS 135M, and CIS 195P	<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. 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. 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	IS Program Electi	CIS Program Business Elective					
PCC	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		<div>Minimum of 94 credits</div> <div>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.</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					
	UNI								