

key
Career Pathway Academic Required Courses
Activities
Articulated Courses
1-year Certificate
AAS Degree
University

HILLSBORO HIGH SCHOOL
Computer Science - Industrial and Engineering Systems Pathway

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.

Education Levels	Grade	English / Language Arts	Math	Science	Social Studies / Sciences	Courses and Electives	Career Pathway Core Classes	Recommended Electives and Learner Activities	Student Leadership Organizations		Certification or Credential	Community Partners	Degree or Diploma	Possible Entry Level Jobs		
	Grade Level	PROGRAM OF STUDY														
HS	9	English Language Arts 9	Algebra 1	Physics or IB track (See course catalog)	World Studies	PE 1	Introduction To Digital Technologies	Robotics 1	Robotics Club (FIRST Robotics and FTC) & OGPC				*Chancellor's Diploma or *Regular Diploma	Information Services Technician		
												City of Hillsboro				
	10	English Language Arts 10	Geometry	Chemistry	US History	Health and PE 2	Programming 1 & 2	Robotics 2				SparkFun Electronics				
	11	English Language Arts 11	Algebra 2 or Financial Algebra (check with counselor)	Biology	People and Politics	Internship/ Job Shadow	Introduction to Computer Science (PCC CS 161 - transferrable to Universities)	Graphic Design 1				Intel				
	12	English Language Arts 12 or Humanities	Post Secondary Prep or *Check course catalog for additional courses	Post Secondary Prep - Additional Science Credit Such as: IB Biology	Economics	Applied Arts/Foreign Lang/CTE	Engineering Prep (Capstone)	Graphic Design 2				R & D Plastics				*Honors Diploma

PORTLAND COMMUNITY COLLEGE	TERM	PROGRAM OF STUDY					Certificates/Degrees/Occupations	
	FIRSTTERM	CAS 111D Beginning Web Site Creation: Dreamweaver	CAS 206 Principles of X/HTML	CAS 215 CSS and Dynamic HTML	CAS 280W CE: Web Site Development	CAS 211D Intermediate Dreamweaver	One Year Certificate Website Development and Design	
	SECONDDTERM	CIS 120 Computer Concepts I	CIS 121 Computer Concepts II	CIS 178 Applied Internet Concepts	MM 110 Introduction to Multimedia	CIS 243 Essentials of E-Commerce Information Systems	Intended to meet business career needs for entry-level positions that assist web site developers, HTML programmers, web designers, web producers, and web technologists. Certificate completers will be able to create functional web sites and assist in the production of	
	THIRDDTERM	MM 120 Multimedia Design	MSD 279 Project Management-Intro	WR 121 English Composition	BA 223 Principles of Marketing 3	BA 205 Solving Communication Problems with Technology		

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	SECOND TERM	CIS 120 Computer Concepts I	CIS 121 Computer Concepts II	CIS 178 Applied Internet Concepts	MM 110 Introduction to Multimedia	CIS 243 Essentials of E-Commerce Information Systems	# Website Developers #Graphic Designers # Designers # Multitmedia Artists # Media and Communication Workers # Computer Specialists	
	THIRD TERM	MM 120 Multimedia Design	MSD 279 Project Management-Intro	WR 121 English Composition	BA 223 Principles of Marketing 3	BA 205 Solving Communication Problems with Technology		
	FOURTH TERM	Enhancing Web pages with CIS 125D	Beginning Coldfusion	CIS 122 Software Design	Introduction to Visual Basic .NET	General Education		
	FIFTH TERM	Database Application Development i	CIS 179 Data Communications	CIS 287I Web Server Administration	WR 227 Technical and Professional Writing I	General Education		
	SIXTH TERM	Elective (see list below)	Elective (see list below)	Elective (see list below)	General Education	General Education		
	Computer Applications and Office Systems Electives		CIS 234S Web Application Development Using .NET CIS 195P PHP Web Development I CAS 225 Introduction to PHP CIS 133J Java programming I					

UNIVERSITY	Portland State University	University of Oregon	Western Oregon University	Oregon State University	Oregon Institute of Technology	MIT		
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