Glencoe High School

Industrial & Engineering - Computer Technology 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.

Key	
High School Academic	
High School Career & Technical	
PCC Dual Credit Articulated Courses	
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 Major Courses	
Secondary	9	Freshman English	Algebra	Biology	World Studies	Art 1	Programming 1	Diploma
	10	Sophomore English	Geometry	Physical Science	American Studies	Art 2	Programming 1	
	11	Junior English	Algebra 2	Physics	Modern America	Job shadow	AP Computer Science/Programming 2	
	12	Senior English	Pre-Calculus Tech Math Statistics	Elective	Economics & People and Politics	Internship	AP Computer Science/Programming 2	

Portland Comm C	TERM	PROGRAM OF STUDY					Certificates/Degrees/Occupations
	FIRST TERM	CIS 120 Computer Concepts I	CIS 121 Computer Concepts II	CIS 122 Software Design	CIS 140U Introduction to UNIX		**One Year Certificate Computer Information Systems**
	SECOND TERM	PSY 201 Introduction to Psychology - Part 1	CAS 216 Beginning Word	Program Electives	WR 227 Technical Writing		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.(In order to follow the recommended sequence of
	THIRD TERM	WR 121 English Composition	Program Electives	Program Electives	Program Electives		

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o l	TERM	Composition					courses, students should be ready to enter Wr 121 and Mth 95.)
	TERM			PROGRAM OF STUDY			Certificates/Degrees/Occupations
P o r t l a n d C o m	FIRST TERM	CIS 120 Computer Concepts I	CIS 121 Computer Concepts II	CIS 122 Software Design	General Education		Associate of Applied Science Computer Information Systems CIPS # 521201
	SECOND TERM	CIS 244 Systems Analysis	CIS 275 Data Modeling and SQL Introduction	WR 121 English Composition	General Education		
	THIRD TERM	CIS 140U Introduction to UNIX	Program Electives	Program Electives	WR 227 Technical Writing		
	FOURTH TERM	CIS 179 Data Communication Concepts I	Program Electives	BA 203 Introduction to International Business	Program Electives		•Database Administration •Digital Media •Enterprise System Analysis and Integration •Interactive Media •Network Design and Administration •Programming and Software
	FIFTH TERM	Program Electives	Program Electives	BA 206 Management Fundamentals	Program Electives		
	SIXTH TERM	Program Electives	Program Electives	General Education	Program Electives		

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C o l	TERM			Education			Engineering •Technical Support •Technical Writing •Telecommunications •Web Development and Administration
		Programming Electives	CIS 125D Database Application Development I CIS 133B Introduction to Visual Basic NET Programming CIS 133J Java Programming I CIS 135T XML and HL7 CIS 140M Operating Systems I: Microsoft CIS 140S PerlScript Programming CIS 145 Microcomputer Hardware and Troubleshooting CIS 178 Applied Internet Concepts CIS 179 Data Communication Concepts CIS 185 Computer and Ethics CIS 187I Web Technical Administration CIS 188 Introduction to Wireless Networking CIS 189 Wireless Security CIS 195P PHP Web Development I CIS 225 End User Support				
University							