Key
High School Academic
High School Career & Technical
PCC Dual Credit Articulated Courses
1-year Certificate
2-year Transfer program
AAS Degree
University

Southridge High School

INDUSTRIAL & ENGINEERING SYSTEMS

Computer Technology

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	Other Required Courses Electives Recommended Electives Learner Activities	*Career and Technical Courses and/or Degree Major Courses	
SECONDARY	9	Literature & Composition	Algebra IMP I/II	Science Inquiry A & B (Biology & Physics)	World History	Drawing 1 Computer Literacy	Game Design Computer Hardware 1	DIPLOMA
	10	American Literature & Composition	Geometry/Algebra IIa IMP II/III	Chemistry Earth Science	US History	Computer Graphics 1 Engineering & Design 1 Electronics	VB 1 Web Design 1 Robotics	
	11	Lit/Comp II IB English	Algebra IIb/Pre-Calc IMP IV	Biology / Chemistry Physics / Anatomy	Government Economics	Drawing 2 CAD 1 Engineering & Design 2	VB 2 Web Design 2	
	12	Classic World Lit Technical Writing World of Words	Calculus AP Statistics	Biology / Chemistry Physics / Anatomy	Government/ Economics	AP Stats IB Calculus IB Higher Level Math	IB Computer Science Advanced Programming 2 Web Multimedia	

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PORTLAND COMMUNITY COLLEGE	TERM	PROGRAM OF STUDY					Certificates/Degrees/Occupations	
	FIRST TERM	CIS 120 Computer Concepts I	WR 121 English Composition	MTH 95 Intermediate Algebra	Business Elective	General Education elective from either Arts & Humanities -or- Soc Science	**1-year Certificate Computer Information Systems**	
	SECOND TERM	CIS 121 Computer Concepts II	CIS 122 Software Design	CS/CIS 140 Operating Systems	CIS-CS Elective		Programmer-Analyst, Network Administrator, End User Support Specialist, an Application Developer	
	THIRD TERM	WR 227 Technical Writing I	CIS-CS Elective					
	PROGRAMMING/	CS 14OU Introduction to UNIX	CS 160 Exploring Computer Science	CS 161 Computer Science I	CS 162 Computer Science II		**2-year Transfer program Computer Information Systems**	

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PORTLAND COMMUNITY COLLEGE	**SYSTEMS**	CS 260 Data Structures	CS 261 Programming Systems				* Network Administration * Network Security and Computer Forensics * Project Management * Programming and Application Development * Database Development * Web Technology * Health Informatics
	COMPUTER ARCHITECTURE	CS 200 Computers Systems I	CS 201 Computer Systems II				
	MATH REQUIREMENT	MTH 231 Elements of Discrete Math I	MTH 232 Elements of Discrete Math II	MTH 251 Calculus I	MTH 252 Calculus II	MTH 253 Calculus III	
		MTH 254 Vector Calculus					
	SCIENCE REQUIREMENT	PHY 211 General Physics (Calculus)	PHY 212 General Physics (Calculus)	PHY 213 General Physics (Calculus)			
	OTHER CORE REQUIREMENTS	WR 121 English Composition	*SP 111 Fundamentals of Speech	HPE 295 Health & Fitness for Life			
	GENERAL ED ELECTIVES	Social Science	Humanities	*WR 227 (recommended)	*required for admission to CS Program @ PSU		

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	NON-MAJOR CS COURSES	CS 133U Intro to C	CS 133G Intro to Computer Games	CS 233G Game Programming				

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PORTLAND COMMUNITY COLLEGE	TERM	PROGRAM OF STUDY					Certificates/Degrees/Occupations	
	FIRST TERM	CIS 120 Computer Concepts I	WR 121 English Composition	Business Elective	General Education Elective		**Associate of Applied Science Computer Information Systems CIPS# 521201**	
	SECOND TERM	CIS 121 Computer Concepts II	CIS 122 Software Design	CIS 179 Data Communication Concepts I	Business Elective		* Programmer 1/ Analyst 1: $42,212 - $71,293 * Database Administrator: $67,967 - $113,089 * Web Developer: $57,673 - $103,406 * Network Administrator 1: $40,039 - $62,359	
	THIRD TERM	WR 227 Technical Writing I	Programming Elective	CS/CIS 140 Operating Systems	CS/CIS Elective			
	FOURTH TERM	CIS 275 Data Modeling & SQL	CS/CIS Elective	Programming Elective	General Education Elective			

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POF	**FIFTH TERM**	CIS 244 Structured Systems Analysis	CS/CIS Elective	General Education Elective			* Help Desk/Tech Support: $37,494 - $59,833	
	SIXTH TERM	CS/CIS Elective	General Education Elective					
UNIVERSITY								