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

Sunset 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 I Geometry Algebra II	Science Inquiry (Biology & Chemistry)	World History & Govt.	Art 1	Game Design 1 3D DesignTechnology 1	DIPLOMA
	10	Literature & Composition	IMP III IB Math SL I	Biology Chemistry General Chemistry		Graphic Design 1 Marketing 1	Web Design 1 Robotics 1	
	11	IB Film & Lit HL I Amer. Lit. & Comp IB English HL I	Adv. Algebra II IMP IV, IB Math SL I IB Math HL I	IB Chemistry SL Conceptual Physics IB Physics SL	American Studies IB History HL I	Art 2 Graphic Design 2	Game Design 2 Web Design 2, Java Prog.	
	12	World Lit. & Comp. IB English HL II	IB Math SL II IB Math HL II AP Statistics	IB Physics HL Northwest Ecology	Senior Seminar IB History HL I IB History HL II	AP Stats IB Higher Level Math	IB Computer Science Game Design 3, Robotics 2	

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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			
	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				THIS SPACE WOULD LIST OCCUPATIONAL TITLES
	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		THIS SPACE WOULD LIST	
	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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POS	**FIFTH TERM**	CIS 244 Structured Systems Analysis	CS/CIS Elective	General Education Elective			OCCUPATIONAL TITLES
	SIXTH TERM	CS/CIS Elective	General Education Elective				
UNIVERSITY							