

Key
High School Academic
High School Career & Technical
PCC Dual Credit Articulated Courses
AAS Degree
University

Aloha High School

Industrial & Engineering - Construction

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	English 9	AIM/Algebra for Initial Mastery	Biology	World History	Physical Education Computer Applications	Construction	DIPLOMA
	10	English 10	Geometry Algebra II	Physical Science	U.S. History	Health Engineering Concepts	Arch Design 1	
	11	English 11 -or- Adv. English	Algebra II	Chemistry Physics I	Law, Ethics, Psychology	Interior Design World Art	Arch Design 2	
	12	English 12 -or- AP English			Government Economics	Senior Project Career Credit		

COMMUNITY COLLEGE	TERM	PROGRAM OF STUDY					Certificates/Degrees/Occupations
	FIRST TERM	ARCH 110 Introduction to Architectural Drawing	ARCH 121 Structural Systems 1	ARCH 124 Introduction to Building Systems	ARCH 126 Intro to AutoCAD	ARCH 127 Intro to Google Sketch-Up	Associate of Applied Science Architectural Design/Drafting
	SECOND TERM	ARCH 101 Architectural Graphics I	ARCH 122 Structural Systems II	ARCH 132 Residential Building Codes		ARCH 136 Intermediate AutoCAD ART 215 History of Residential Architecture	# Interior Design # Electrical And Electronics Drafters # Architectural And Civil Drafters # Mechanical Drafters # Electro-Mechanical Technicians

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PORTLAND	THIRD TERM	ARCH 111 Working Drawings 1	ARCH 256 Detail Drawings with AutoCAD	ARCH 113 Site Planning	ARCH 123 Structural Systems 3	ARCH 224 Active & Passive Building Systems	# Electrical And Electronic Engineering Technicians # Industrial Engineering Technicians # Mechanical Engineering Technicians

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	TERM	PROGRAM OF STUDY					
PORTLAND COMMUNITY COLLEGE	FOURTH TERM	ARCH 112 Working Drawings II	ART 215 History of American Architecture	General Education			# Interior Design # Electrical And Electronics Drafters # Architectural And Civil Drafters # Mechanical Drafters # Electro-Mechanical Technicians # Electrical And Electronic Engineering Technicians # Industrial Engineering Technicians # Mechanical Engineering Technicians
	FIFTH TERM	ARCH 102 Architectural Graphics 2	ARCH Elective (see list below)	ARCH 133 Commercial Building Codes	ARCH 201 Residential Studio		
	SIXTH TERM	ARCH 202 Commercial Studio	ARCH 280 CE: Architectural Design & Drafting	ARCH Elective (see list below)	General Education		
	Residential Electives		ARCH 110 Intro to Architectural Drawing ARCH 280CE Construction Observation ID 133 Space Planning		ID 135 Professional Practice for Designers ID 138 Introduction to Kitchen & Bath Planning ID 236 Lighting Design		
	Sustainability Electives		ARCH 131 Sustainable Structures ARCH 204 Sustainable Design Studio ID 121 Sustainable Materials for Residential Interiors BCT 206 Sustainable Construction				

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		CAD Electives	ARCH 237 Revit ARCH 140 Chief Architect (Articulated with Adv. Tech Drawing II)				

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SECONDARY	9	English 9	AIM/Algebra for Initial Mastery	Biology	World History	Physical Education Computer Applications	Construction	DIPLOMA
	10	English 10	Geometry Algebra II	Physical Science	U.S. History	Health Engineering Concepts	Arch Design 1/AutoCAD	
	11	English 11 -or- Adv. English	Algebra II	Chemistry Physics I	Law, Ethics, Psychology	Interior Design World Art	Arch Design 2/AutoCAD	
	12	English 12 -or- AP English			Government Economics	Senior Project Career Credit	Drafting 1/AutoCAD	
							Drafting 2/Adv. AutoCAD	

PORTLAND COMMUNITY COLLEGE	TERM	PROGRAM OF STUDY				Certificates/Degrees/Occupations
	FIRST TERM	BCT 102 Residential Printreading	BCT 103 Residential Materials & Methods	BCT 104 Construction Mathematics	BCT 106 Hand Tool/Power Tool Use & Safety	1-year Certificate Building Construction Technology
	SECOND TERM	BCT 101 Principles of Construction Surveying	BCT 127 Concrete Construction I	ARCH 132 Residential Building Codes	ARCH 110 Intro to Architectural Drawing	# Building Construction Laborer # Carpenter # Cabinetmaker # HVAC Technician # Plumber # Millwright # Electrician # Pipelayer
	THIRD TERM	BCT 120 Floor Framing	BCT 121 Wall Framing	BCT 122 Roof Framing I	BCT 123 Roof Framing II	

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PORTLAND COMMUNITY COLLEGE	TERM	PROGRAM OF STUDY					Certificates/Degrees/Occupations
	FIRST TERM	BCT 102 Residential Printreading	BCT 103 Residential Materials and Methods	BCT 104 Construction Mathematics	BCT 106 Hand Tool/Power Tool Use & Safety	General Education	Associate of Applied Science Building Construction Technology * Building Construction Manager * Cost Estimator * Machine Manufacturing Technician * Construction and Building Inspector * Surveyor * Architectural & Civil Drafters * Electrical Engineering Technician (See also Engineering/ Architecture Pathway) * Welding Technician
	SECOND TERM	BCT 101 Principles of Construction Surveying	BCT 127 Concrete Construction I	ARCH 132 Residential Building Codes	ARCH 110 Intro to Architectural Drawing	ARCH 111 Working Drawing 1	
	THIRD TERM	BCT 120 Floor Framing	BCT 121 Wall Framing	BCT 122 Roof Framing I	BCT 123 Roof Framing II	General Education	
	FOURTH TERM	BCT 128 Exterior Finish	BCT Elective	BCT Elective	SP 215 Small Group Communication Practices	Arch 101 Arch Graphics	
	FIFTH TERM	BCT 203 Interior Finish	BCT 219 Cabinetmaking	General Education			
SIXTH	BCT 206 Sustainable Construction	BCT 204B	BCT 211 Remodeling	WR 227			

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	TERM	Sustainable Construction Practices	Construction Estimating	DOT 211 Remodeling	Technical Writing		

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