Portland Community College
Southridge High School

Engineering Technology Pathway

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

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	Lit and Comp 9	AGS I	Physics	World History 9	Health & PE	Eng/Design I	DIPLOMA
	10	Lit and Comp 10	AGS II	Chemistry	World History 10	Health & PE	Eng/Design II	
	11	Amer. Lit and Comp	AGS III	Biology	IB History	Second Language	Robotics I/II	
	12	Writing 121	IB Math SL			Second Language	IB Desigh Technology	

COMMUNITY EGE	TERM	PROGRAM OF STUDY					Certificates/Degrees/Occupations
	FIRST TERM	CMET 110 Statics	CMET 111 Portland Design: Vrews, Bridges and Bikes	CMET 112 Technical Algebra/Trigonometry	ENGR 102 Engineering Graphics		**One Year Certificate**
	SECOND TERM	CMET 121 Strength of Materials	CMET 122 Global Energy Physics	CMET 123 Technical Algebra with Analytic Geometry	WR 121 English Composition		**Minmum of 67 credits** Civil engineering technicians are problem-solvers, working as part of a team involved in the planning, design,

PORTLAND C COLL	**THIRD TERM**	CMET 131 Applied Calculus	CMET 213 Fluid Mechanics	CMET 227 Applied Electricity Fundamentals	SOCIAL SCIENCE GENERAL EDUCATION		construction, operation, and management of many types of projects. These may include buildings, bridges, dams, highways, rapid transit facilities, airport and coastal improvements, land development projects, residential and commercial complexes, utilities, and environmental protection facilities such as water and wastewater treatment plants, air pollution control systems, solid and hazardous waste disposal systems, and storm water control facilities.
	FOURTH TERM	CH 101 Inorganic Chemistry Pronciples	CMET 133 Materials Technology	CMET 221 Environmental Systems	COMM 100 OR COMM 111 Public Speaking	ENGR 226 Plane Surveying	
	TERM	**PROGRAM OF STUDY**					**Certificates/Degrees/Occupations**
PORTLAND COMMUNITY COLLEGE	**FIRST TERM**	CMET 110 Statics	CMET 111 Portland Design: Vrews, Bridges and Bikes	CMET 112 Technical Algebra/Trigonometry	ENGR 102 Engineering Graphics		**Associate of Applied Science Degree Civil Engineering Techonology**
	SECOND TERM	CMET 121 Strength of Materials	CMET 122 Global Energy Physics	CMET 123 Technical Algebra with Analytic Geometry	WR 121 English Composition		**Minmum of 101 credits** The PCC Civil Engineering Technology program is designed to develop marketable skills in a broad range of technical areas, as well as in problem analysis and solution, spoken and written communication, computer software use, and computer-aided drawing. While providing a curriculum strong in mathematics and engineering topics, our teaching format also emphasizes student involvement, teamwork, and extensive student-instructor interaction.
	THIRD TERM	CMET 131 Applied Calculus	CMET 213 Fluid Mechanics	CMET 227 Applied Electricity Fundamentals	General Education Course		
	FOURTH TERM	CH 101 Inorganic Chemistry Pronciples	CMET 133 Materials Technology	CMET 221 Environmental Systems	COMM 100 OR COMM 111 Public Speaking	ENGR 226 Plane Surveying	
	FIFTH TERM	CMET 211 Environmental Quality	CMET 212 Theromodynamics I	CMET 228 Construction Materials	CMET 241 Structural Steel Drafting	CMET 254 Employment and Professional Development Skills I	General Education Course
	SIXTH	CMET 214	CMET 222	CMET 223	CMET 233 CET Applied Comuter	CMET 236	

	TERM	Surveying II	Thermodynamics II	Project Management	CE1 Applied Computer Aided Design	Structural Design	

UNIVERSITY							