

STEM/ENGINEERING CAREER PATHWAY EXAMPLES

ENGINEERING EXPLORATORY	
Middle School: CS Discoveries Applied Technology Design and Production Robotics Flight and Space CS101 -Coding in Python 1 CS102 – Coding in Python 2	High School: CS201- Coding in Python 1 CS202 – Coding in Python 2 Introduction to Robotics Introduction to Engineering Design 1 Introduction to Engineering Design 2 Principles of Engineering Special Topics in Engineering

Sample Exploratory Engineering 4-Year Plan
 (Middle School courses that support this 4-year plan are indicated in the chart below.)

PERIOD	1	2	3	4	5	6	7	SAMPLE PATHWAY COLLEGE CREDITS
GRADE	LANGUAGE ARTS	SOCIAL STUDIES	SCIENCE	MATH	ELECTIVE	ELECTIVE	ELECTIVE	
6	x	x	x	x	Physical Education	CS Discoveries	Applied Engineering	Bellevue College CS201 Coding in Python 1 & CS202 Coding in Python 2 – PROG 110 = 5 credits Lake Washington Institute of Technology Introduction to Engineering 1 & 2 – ENGR& 100 = 3 credits Principles of Engineering 1 & 2 – ENGR& 100 = 3 credits Edmonds Community College CS201 Coding in Python 1 & CS202 Coding in Python 2 – CIS 100 = 5 credits See the College Credit table for more information and available credits.
7	x	x	x	x	Physical Education	Health	Design and Production	
8	x	x	x	x	Physical Education	Robotics	Flight and Space	
9	x	x	x	x	World Language	Coding in Python 1	Coding in Python 2	
10	x	x	x	x	Physical Education	Health	Introduction to Robotics	
11	x	x	x	x	Physical Education	Introduction to Engineering Design 1	Introduction to Engineering Design 2	
12	x	x		x	Fine Arts	Principles of Engineering	Special Topics in Engineering	

POST SECONDARY	STEM COLLEGE CREDIT COURSES	PROFESSIONAL CERTIFICATIONS	TECHNICAL OR ASSOCIATE DEGREES	SAMPLE OCCUPATIONS
	Lake Washington Institute of Technology Introduction to Engineering 1 and 2 - ENGR& 100 = 3 credits Principles of Engineering 1 and 2 – ENGR& 100 = 3 credits	CSWA – Certified SOLIDWORKS Associate CSWA-EDU – Academic Certification CSWA-AM – Additive Manufacturing Certification	Bellevue College: <ul style="list-style-type: none"> Associate in Science Track II: Physics, Atmospheric Science and Engineering Associate in Science Track II: MRP Civil and Mechanical Engineering Associate in Science Track II: MRP Electrical and Computer Engineering Associate in Science Track II: MRP Chemical and Bioengineering Lake Washington Technical Institute <ul style="list-style-type: none"> Engineering Technology, AAS-T 	Engineering Technician Material Planner Piping Designer Electrical Designer NDT Technician Aerospace Engineer Agricultural Engineer Chemical Engineer Civil Engineer Drafting and Design Engineer Electrical Engineer Environmental Engineer Geological Engineer Marine Engineer Medical Engineer Naval Architect Plus many more.....