



THE PRE-ENGINEERING PROGRAM OF STUDY

Education Planning Guide for High School and Beyond – Four Year College/University Preparation

Program of Study Overview

The following table provides an overview of courses and credits needed to complete this program of study while meeting the [state's minimum 4-Year College/University entrance requirements](#). Students pursuing this program of study should include at least **2 credits from courses in Bold Italic** in their High School and Beyond Plan to meet the district's 2 credit requirement within a Field of Study area. Courses with a ^{TP} designation are those articulated for Tech Prep college credit, and can be applied toward the requirements of post-high school programs designated as Tech Prep ^{TP} Options below.

Gr	English	Social St.	Science	Math	Health/Sr. Exp	Career and Technical	Art	PE	World Lang	Edmonds SD Graduation Requirements (22 credits)
9	Eng. 9	Soc. St. 9	Physical Science	Algebra 1	Health	3 or more credits from the following courses: <i>Intro to Engineering Design</i> ^{TP} <i>Principles of Engineering</i> ^{TP} <i>Digital Electronics</i> <i>Robotics</i> ^{TP}	1.0 credits from Visual or Performing Arts Courses	1.5 credits from PE courses or CTE Equivalencies	World Language	4.0 credits - English 3.5 credits - Social Studies 2.0 credits - Math 2.0 credits - Science 0.5 credits - Health 1.5 credits - Physical Education 1.0 credits - Art 1.5 credits - Career and Technical 0.5 credits - Senior Experience 5.5 credits - Electives High School and Beyond Plan Culminating Project WASL or Approved Alternative
10	Eng. 10	Soc. St. 10	Life Science/Biology	Geometry	World Language					
11	Eng. 11	Soc. St. 11	Chemistry or Physics	Algebra 2						
12	Eng. 12	Soc. St. 12	Mathematics or Science Course	Senior Experience						
Culminating Senior Project		The Culminating Senior Project includes a Portfolio of Work and Student Project which demonstrate skills learned through the Pre-Engineering Program of Study.								

Sample High School and Beyond Plan – Four Year College/University Preparation

The following High School and Beyond Plan shows how the courses and credit requirements listed above for this program of study can be met over the course of 4 years. This schedule meets graduation and state minimum 4-Year College/University entry requirements. It is highly recommended that students compare their plan against the entrance requirements of particular colleges of interest.

Grade 9		Grade 10		Grade 11		Grade 12	
Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
English 9	English 9	English 10	English 10	English 11	English 11	English 12	English 12
Social Studies 9	Health	Social Studies 10	Social Studies 10	Social Studies 11	Social Studies 11	Social Studies 12	Social Studies 12
Algebra 1	Algebra 1	Geometry	Geometry	Algebra 2	Algebra 2	Senior Experience	PE or Equivalent
Physical Science	Physical Science	Life Science	Life Science	Chemistry/Physics	Chemistry/Physics	Math or Science	Math or Science
World Language	World Language	World Language	World Language	PE or Equivalent	PE or Equivalent	Arts Course	Arts Course
<i>Engin. Design.</i> ^{TP}	<i>Engin. Design.</i> ^{TP}	<i>Princ. Of Engin.</i> ^{TP}	<i>Princ. Of Engin.</i> ^{TP}	<i>Digital Electronics</i>	<i>Digital Electronics</i>	<i>Robotics</i> ^{TP}	Open Elective

Post-High School Options for this Program of Study

The following are just some of the post-high school programs available in Washington for this program of study. For information about specific college credits earned for courses within this program of study, download the Pre-Engineering Program of Study brochure at <http://humid.edmonds.wednet.edu/documents/fos/PL.TW.pdf>

	Earn an Associate's Degree in Engineering Technology and enter the Workforce	Earn a Bachelor's Degree in Engineering and enter the Workforce	Earn CTE Teacher Certification and become a High School Teacher
Post-High School Options	Tech Prep ^{TP} Options Students completing this program of study can earn up to 10 college credits which may be applied in full or in part to the following program: <ul style="list-style-type: none"> Materials Science Technology AAS-T, Edmonds CC Aerospace Manufacturing AAS-T Degree, Edmonds CC Associate of Science Degree Track 2, Edmonds CC 	State colleges offering Bachelor Degree Engineering and Engineering Technology: <ul style="list-style-type: none"> University of Washington Central Washington University Washington State University Seattle University 	After working in the Engineering field, individuals may become High School Instructors by obtaining CTE Teacher certification through a state approved CTE Teacher Certification Program. For information about becoming a CTE Teacher, go to http://www.k12.wa.us/certification/CTEMain.aspx