



Jewelry Manufacturing Career Pathway

Education Planning Guide for Middle School and Beyond



This Career Pathway, along with other career planning materials, serves as a guide to assist students in the Auburn School District in developing a relevant middle-to-high school plan that will prepare them for further education and/or employment in the **Skilled and Technical Sciences Career Cluster**. The career pathway outlined below can be individualized to meet each learner's education and career goals. It allows students to earn high school credits while completing coursework in middle school, earn college credits while completing coursework within high school, and apply those credits toward attainment of a college certificate and/or degree. It is important to share and review this plan with a parent/guardian and school counselor.

EDUCATION LEVELS	GRADE	English/ Language Arts	Social Studies	Science	Math	Other Required Courses Other Electives Recommended Electives Learner Activities Leadership Activities			Career & Technical Courses And/or Degree Major Courses	Auburn School District Graduation Requirements
Interest Inventory Administered and Plan of Study Initiated for all Learners										
MS	8	Successfully complete required coursework for 6th, 7th and 8th grade, and these electives →			Art Survey, STEM Visual Communication, STEM Mechatronics					
	SECONDARY	9	Language Arts	(.5) World Studies or AP Human Geography	Science (1.0) Next Gen or Biology	Algebra I	(2.0) Credit from Fine Arts or Course Equivalencies (1.5) Credits From Fitness Courses	Orientation or Career Choices	Drawing 1, 2	
		10	Language Arts	Global Issues (.5) or AP Euro	Science (1.0) Next Gen or Chemistry	Geometry		(.5) 10th Grade Health	Minimum of two years of the same world language are required for students planning to enroll at a four-year university	Jewelry/Small Metal Sculpture 1, 2**
		11	American Literature 1, 2	U. S. History or AP U. S. History	Chemistry	Advanced Algebra and Trig		(1.5) Credits From Fitness Courses		Jewelry/Small Metal Sculpture 3, 4**
		College Placement Assessments-Academic/Career Advisement Provided								
12	Senior English Electives	Civics (.5) and Elective (.5) or AP American Government (1.0)	Physics or AP Biology or AP Chemistry	AP Statistics or Pre-Calculus						

Credit Requirements
(24.0 credits total):

4.0 credits - English
3.0 credits - Social Studies
3.0 credits - Math
3.0 credits - Science
1.5 credits - Fitness
0.5 credits - Health
2.0 credits - Arts **
2.0 credits - World Language **
1.0 credits - Career and Technical
4.0 credits - Electives

Additional Requirements:

- High School and Beyond Plan
- Culminating Project/Portfolio
- Certificate of Academic Achievement or Approved Alternative

Students who earn a "C" or better in the above () courses may be eligible for college credit. See page 3 for more information. **Credits may be applied in a chosen career pathway.





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POST SECONDARY	<p>The Post-High School program options listed below for this Career Pathway represents just some examples of options available within the Puget Sound area, including programs where agreements for dual credit exist between the college and school district. For other options available related to this program of study, visit your career center or the websites of local colleges.</p>	
	Apprenticeship Opportunities	<p>To learn more about apprenticeships in this program, go to: Apprenticeship Registration & Tracking Examples: Composite Manufacturing Specialist, Manufacturing Precision Metal Fabricator</p>
	Earn Certificate and Enter Workforce	<p>To learn more about certificate programs, go to: Renton Technical College , Green River College , Gemological Institute of America Examples: Air Washington, Graduate Gemologist® Program, Graduate Diamonds Program, Graduate Colored Stones Program, Aerospace and Advanced, Manufacturing Technology, Machining and Manufacturing Technology</p>
	Military	<p>To learn more about Military education and training programs, go to: todaysmilitary.com , defense.gov</p>
	Associate Degree Transitions	<p>To learn more about Associate degrees, go to: Green River College , Highline College, North Seattle College, Examples: Fine Arts – Jewelry Design, Associate in Mechanical, Manufacturing and Plastics Engineering Technology, Engineering</p>
	4 year University	<p>To learn more about Bachelor and beyond degrees, go to: Central Washington University Examples: Jewelry/Metalsmithing</p>

Students intending to earn an Associate Degree and transition to a 4-year University can use the below section to list appropriate classes.

COURSE CODE	CREDIT	COURSE NAME	COURSE CODE	CREDIT	COURSE NAME



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Jewelry Manufacturing students learn skills used in the jewelry industry such as sawing, filing, polishing, coloring of metal, forming and soldering. Students will also learn how to form a wax model to be cast into metal. As advanced students, they practice metals fabrication, stone setting and casting. In this program students will make rings, necklaces and a variety of jewelry from metal and other materials.

Occupational Information

The following represent occupations within this field and their average annual earnings and openings based on data from the Washington State Employment Security Department. For more information about these and other occupations within this field, go to <https://esd.wa.gov/labormarketinfo>

<u>Occupation</u>	<u>Washington State Projected Openings 2016-2026</u>	<u>Earnings</u>
Jewelers/Precious Stone & Metal Workers	413	\$40,445 yr.
Fine Artists, Including Painters, Sculptors& Illustrators	325	\$52,390 yr.
Hand Grinding & Polish Workers	221	\$33,883 yr.
Jewelry Sales & Related Workers	1756	\$47,129 yr.
Dental Lab Technician	687	\$44,707 yr.
Dental Assistants	10,511	\$45,078 yr.
Dental Hygienist	6,010	\$92,266 yr.
Dentist General	92	\$168,282 yr.
Dentists All Other Specialists	2,798	\$188,001 yr.
Engineer, All Others	3,161	\$106,719 yr.
Foundry, Mold & Coremakers	276	\$41,889 yr.
Aerospace Engineering & Operations Technician	388	\$95,369 yr.
Welders, Cutters, Soldering, & Brazers	8,411	\$52,405 yr.

Post-High School Connections

The following courses within this program of study may be eligible for college credit at several local colleges if students earn a "C" or better:

<u>High School Course</u>	<u>Credits Possible</u>	<u>College</u>	<u>College Course</u>
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At this time there are no colleges allowing dual credit. Please check back at a later date.

Student Leadership Development



Skills USA serves high school and college students enrolled in training programs in trade, technical and skilled service occupations. Programs include local, state and national competitions in which students demonstrate occupational skills, leadership, teamwork, citizenship, and promotes involvement in community service activities.

For additional leadership opportunities at your high school, please talk with a Career and Technical Education Teacher.

Scholarship Opportunities

For local, state, and national scholarship opportunities, please visit your counseling and/or career center, Career Cruising www.CareerCruising.com, WOIS www.wois.org, thecareermap.org or Fast Web www.FastWeb.com.

For more information about this Career Pathway, contact an instructor, a school counselor or a career specialist.

