

SNOHOMISH SCHOOL DISTRICT

CAREER & TECHNICAL EDUCATION PROGRAMS

2019-2020

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Cover Photo by Joel Chonzema, Snohomish High School Photography Student

** The college credit information in this catalog is subject to change based on community college approval and availability on a yearly basis. Credit must be applied for and granted the year the high school course is completed. There are no retroactive credit options available. Fees can vary by college, please check with the instructor for more information.*

** Career information- ONET and Apprenticeship.Gov Informational Accessed 12/20/18*



CAREER CONNECTED LEARNING

CREATE AND MAKE

HANDS ON TRAINING

LEADERSHIP DEVELOPMENT

OPTIONS FOR CAREERS AND

COLLEGE

REAL WORLD SKILLS

STEM PROJECTS

VOCATIONAL TRADES

WHAT IS CAREER & TECHNICAL EDUCATION?

Hands-on learning, real-life skills and career exploration. Career and Technical Education (CTE - formerly referred to as vocational education) prepares students for life and a career after high school. Apprenticeships, technical schools, community colleges, military or four-year universities are options that can be explored in our courses. Science, technology, engineering, and mathematics (STEM) concepts are taught in many of our CTE courses and include a blend of academic, technical and trade skills. Many CTE courses offer college credit through [CTE Dual Credit](#) (SERS) programs, College in the High School or advanced placement courses.

24 CREDIT*

CAREER-AND-COLLEGE-READY GRADUATION REQUIREMENTS

For the Class of 2021 & Beyond

17

CORE CREDITS

3

PPR CREDITS

4

ELECTIVE CREDITS

4 ENGLISH

3 MATH

3 SCIENCE

3 SOCIAL STUDIES

1 CAREER & TECHNICAL
EDUCATION

2 HEALTH & FITNESS

2 ARTS

OR

1 ART

1 PPR

2 WORLD
LANGUAGE

OR

2 PPR

PERSONAL PATHWAY REQUIREMENT:

Three courses that lead to a specific post-high school career outcome chosen by the student, based on the student's interest and High School & Beyond Plan.

What classes match your plan and what careers are you interested in?

Can you change your career interests and High School Beyond Plan?
YES!

ELECTIVE CREDITS:

Exploratory classes of interest.

17 + 3 + 4 =

24

CTE COURSE EQUIVALENCIES – TWO FOR ONE

2
REQUIREMENTS

1
CREDIT

EQUIVALENCIES

HOW DOES IT WORK?

For example, taking Advanced CADD (yearlong) earns one credit toward the 24 required for graduation and fulfills two graduation requirements.

2
REQUIREMENTS

- ✓ 1 CTE REQUIREMENT
- ✓ 1 ART REQUIREMENT

1
CREDIT

ADVANCED CADD

2
REQUIREMENTS

FOR

1
CREDIT

- Creates flexibility to choose more elective courses
- Can address other graduation requirements

STUDENTS:

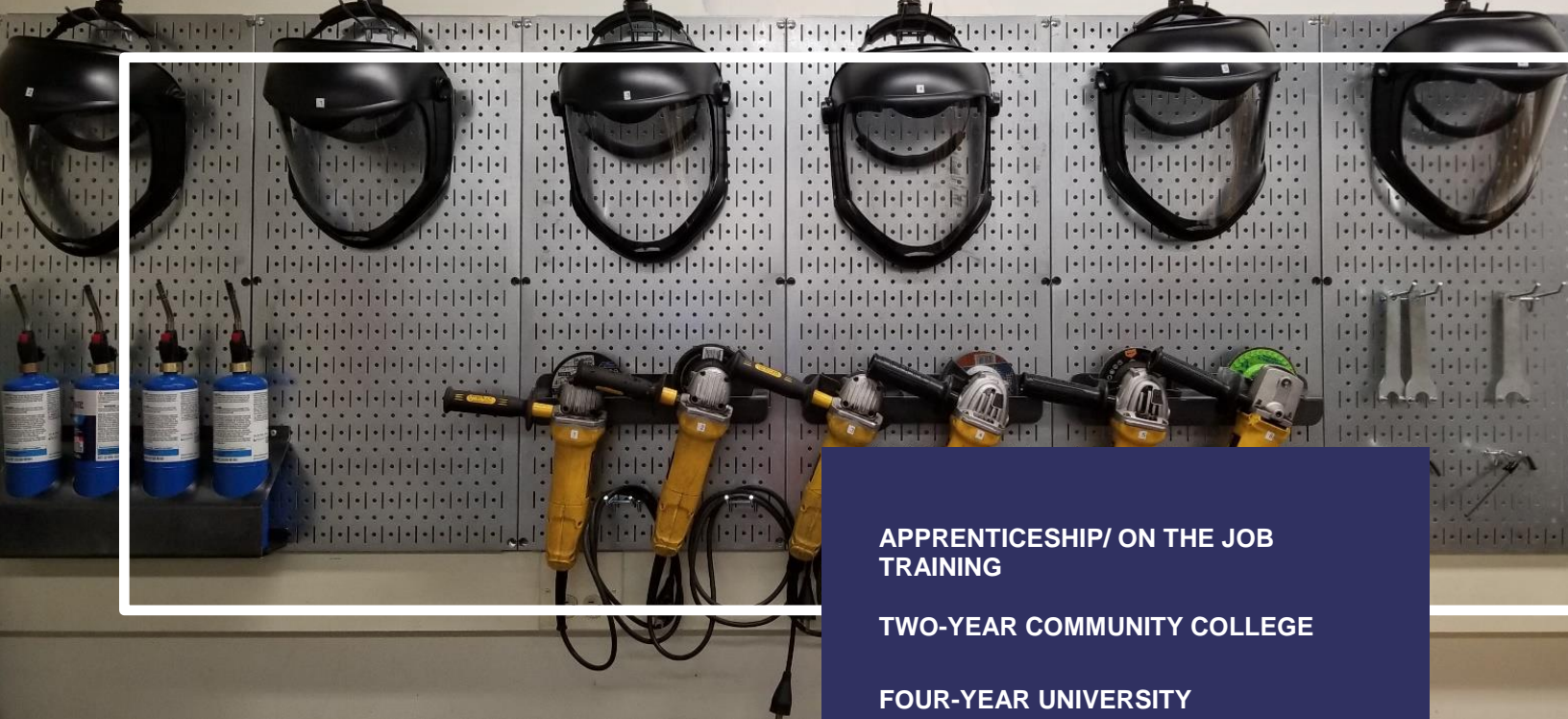
Check with your high school counselor or college admission offices to make sure the course will be accepted for admission purposes. NCAA Requirements: Potential D1 or D2 athletes should check with their counselors annually regarding which Snohomish School District equivalency credits have been approved by the NCAA.

The current rule change to WAC 180-51-067 allows school districts to grant equivalency credit for courses offered in high schools.

Students who take a CTE-equivalency course may satisfy two graduation requirements while earning 1.0 credit for a yearlong course or 0.5 credit for a semester course; hence the “two for one”.

For a list of current approved course equivalencies please visit the CTE section of the Snohomish School District website at www.sno.wednet.edu/cte

CTE equivalencies are noted in the CTE program sections in this handbook.



WHAT WILL I DO AFTER HIGH SCHOOL?

APPRENTICESHIP EXAMPLES

AJAC-Aerospace Joint Apprenticeship Committee

APPRENTI- Technology Careers Apprenticeship

Northwest Carpenters Institute of Washington

PUD Apprenticeship

Puget Sound Electrical JATC

[APPRENTICESHIP.GOV](https://www.apprenticeship.gov)

TWO-YEAR COMMUNITY COLLEGE EXAMPLES

Everett Community College

Edmonds Community College

Shoreline Community College

Bellevue College

FOUR-YEAR UNIVERSITY EXAMPLES

Central Washington University

Eastern Washington University

University of Washington

Washington State University

Western Washington University

**APPRENTICESHIP/ ON THE JOB
TRAINING**

TWO-YEAR COMMUNITY COLLEGE

FOUR-YEAR UNIVERSITY

**ONE- OR TWO-YEAR TECHNICAL
COLLEGE**

MILITARY TRAINING & RESOURCES

ONE/TWO-YEAR TECHNICAL COLLEGE EXAMPLES

Lake Washington Institute of Technology

DigiPen

Bellingham Technical College

Renton Technical College

MILITARY TRAINING & RESOURCES

U.S. Air Force

U.S. Army

U.S. Coast Guard

U.S. Marines

U.S. Navy

HOW WILL I GET THERE?

The Snohomish School District offers seven different CTE programs that are organized by career Pathways. Pathways provide students with a suggested sequence of courses that can lead to college credit and/or industry certification.

AGRICULTURE & SCIENCE

Animal Biology, Plant Biology, Advanced Animal Biology, Advanced Plant Biology, Floral Design, Agroecology and Sustainability, Farm to Market

BUSINESS & MARKETING

Technology Exploration, Introduction to Business Management, Advanced Business Management FBLA, Personal Finance, Law & Business Ethics, Consumer Law, AP Economics, Business Math, Introduction to Marketing, Advanced Marketing, Sports & Entertainment, Entrepreneurship DECA

DESIGN & MANUFACTURING

Pre-Engineering Courses- CADD Fundamentals, Advanced CADD I and II, Shop Technologies, Manufacturing Technologies, Fabrication Lab

FAMILY CONSUMER SCIENCE

Culinary Essentials I & II, International Cuisine, Living on Your Own, Child Development, Early Childhood Education, Interior Design, Clothing & Fashion Design, Advanced Clothing & Fashion Design

HEALTH SCIENCE

Molecular Biology for Global Health, Advanced Molecular Biology for Global Health, Sports Medicine I, Sports Medicine II

INFORMATION TECHNOLOGY

Technology Exploration, Web Design, Advanced Web Design, Introduction to Computer Science, AP Computer Science A

VISUAL COMMUNICATIONS

Introduction to Digital Arts, Computer Graphics, Digital Video, Photography, Advanced Photography, Publications

LEADERSHIP, CERTIFICATION & PARTNERSHIPS

Each CTE program area offers students the opportunity to participate in Student leadership organizations. These provide learning opportunities outside the classroom including field trips, competition events, volunteer opportunities and industry connections. Many CTE courses also offer industry recognized certificates that can be used for resumes, job and college application

<p>AGRICULTURE & SCIENCE</p>		 <p>SHS Veterinary Assistant Certificate</p>		
<p>BUSINESS & MARKETING</p>				
<p>DESIGN & MANUFACTURING</p>				<p>Solidworks CSWA Exam</p>
<p>FAMILY CONSUMER SCIENCE</p>		 <p>Food Workers Card</p>		
<p>HEALTH SCIENCE</p>				
<p>INFORMATION TECHNOLOGY</p>				
<p>VISUAL COMMUNICATIONS</p>				
<p>WANT A JOB NOW?</p>	<p>CHECK OUT YOUTH WORKS SNOCOYOUTHWORKS.ORG/</p>			

AGRICULTURE & SCIENCE



PATHWAY COURSES	Grade	Length	Equivalency/ Requirement Met	College Credit
Animal Biology	9-12	1 Year	Biology	
Plant Biology (only offered at Snohomish High School)	9-12	1 Year	Biology	Yes
Floral Design (only offered at Snohomish High School)	9-12	1 Semester	Art	
Advanced Animal Biology	10-12	1 Year	Science	
Advanced Plant Biology (only offered at Snohomish High School)	10-12	1 Year	Science	
Farm to Market	10-12	1 Semester		
Agroecology & Sustainability	11-12	1 Year	Science	



“The Snohomish agriculture program gave me the skills and experience to approach every opportunity I face with confidence and excitement.”

Veterinary Assistant - Pilchuck Veterinary Hospital

Name
Maddi VanAssche

PATHWAY
**Agriculture &
Science**

AGE
18

EDUCATION
**Snohomish High
School
Central Washington
University**

**APPRENTICESHIPS
CERTIFICATES/COURSES**

SCHOOL NAME



International Society of Arboriculture

- JOBS**
- Veterinary Assistant
 - Tree Trimmer
 - Groomer

**TWO-YEAR
DEGREES**

SCHOOL NAME

Clover Park Technical College
Edmonds Community College
Skagit Valley College

- JOBS**
- Veterinary Technician
 - Landscaping & Groundskeeping
 - Forest Technician

**FOUR-YEAR
DEGREES**

SCHOOL NAME

Washington State University
Central Washington University
University of Washington

- JOBS**
- Veterinarian (Doctoral Degree)
 - Wildlife Biologist
 - Natural Sciences Managers

BUSINESS & MARKETING



PATHWAY COURSES	Grade	Length	Equivalency/ Requirement Met	College Credit
Technology Exploration	9	1 Semester		
Intro to Business Management	9-12	1 Semester		Yes (only at Snohomish High School)
Intro to Marketing	9-12	1 Year		Yes
Law and Business Ethics	9-12	1 Semester	Senior English	
Consumer Law (only offered at Glacier Peak High School)	9-12	1 Semester	Senior English	
Business Math	10-12	1 Year	3 rd Year Math	
Personal Finance	10-12	1 Semester	3 rd Year Math	Yes
Adv. Business Management FBLA	10-12	1 Year		Yes
AP Economics (only offered at Glacier Peak High School)	10-12	1 Year	Social Studies	Yes
Adv. Marketing/Sports Entertainment *Alternates Years	10-12	1 Year		Yes
Entrepreneurship DECA	12	1 Year		Yes

SALES EXECUTION REPRESENTATIVE WHIRLPOOL CORPORATION

Name

Evan Leonard

PATHWAY

Business & Marketing

AGE

20

EDUCATION

**Snohomish High School
Grand Canyon
University-Phoenix**



“I took DECA all four years of high school. All the content, the competitions, the people- they were all the most realistic experience. Everything we did and practiced pertained to what I wanted to do in my life.”

APPRENTICESHIPS CERTIFICATES/COURSES

PROGRAM NAME

ApprentiCareers.org

APPRENTICESHIP.GOV

TWO-YEAR DEGREES

SCHOOL NAME

Edmonds Community College
Everett Community College
Tacoma Community College

FOUR-YEAR DEGREES

SCHOOL NAME

Central Washington University
Washington State University
Eastern Washington University

JOBS

- Network Security Administrator
- IT Business Analyst
- Web Developer

JOBS

- Customer Service Rep
- Sales Representative
Paralegal

JOBS

- Accountant
- Marketing Manager
- Financial Analysts

DESIGN & MANUFACTURING

(Pre-Engineering)



PATHWAY COURSES	Grade	Length	Equivalency/ Requirement Met	College Credit
MIDDLE SCHOOL				
Industrial Science I (STEM SHOP)	7	Sem CMS Q- VVMS		
Industrial Science II (STEM SHOP)	8	1 Semester		
Computer Aided Drafting <small>(only offered at Centennial Middle School)</small>	8	1 Semester		
HIGH SCHOOL				
CADD Fundamentals	9-12	1 Semester	Art or 3 rd Year Math	Yes
Shop Technologies	9-12	1 Semester		*
Advanced CADD I	9-12	1 Year	Art or 3 rd Year Math	Yes
Advanced CADD II	10-12	1 Year	Art or 3 rd Year Math	Yes
Manufacturing Technologies	10-12	1 Year	0.5 Science	*
Fabrication Lab (Fab Lab)	10-12	1 Year		*

* All students in this pathway can apply for the AJAC Youth Apprenticeship



“I love what I do and it brings me joy every day that I am working on a product that connects people all around the world. In my opinion, STEM is the future of the world, so being able to take high-level CTE classes at such a young age allowed me to compete with current adults around the world in jobs.”

WING MECHANIC BOEING

NAME
Nate Walchenbach

PATHWAY
Design & Manufacturing

AGE
19

EDUCATION
Glacier Peak High School
EVCC Mechatronics

APPRENTICESHIPS CERTIFICATES/COURSES

SCHOOL NAME
AJAC Aerospace Joint Appr.


TWO-YEAR DEGREES

SCHOOL NAME
Everett Community College
Renton Technical College
North Seattle Community College

FOUR-YEAR DEGREES

SCHOOL NAME
University of Washington
Washington State University
Western Washington University

JOBS

- Machinist
- Tool and Die Maker
- Industrial Maintenance Technician

JOBS

- Electro-Mechanical Technician
- CNC Tool Programmer
- Technical Designer

JOBS

- Aerospace Engineer
- Industrial Engineer
- Civil Engineer

FAMILY CONSUMER SCIENCE



PATHWAY COURSES	Grade	Length	Equivalency/ Requirement Met	College Credit
MIDDLE SCHOOL				
Family & Consumer Science Education I	7	Sem CMS Q- VVMS		
Family & Consumer Science Education II (only offered at Valley View Middle School)	8	1 Semester		
Kitchen Academy (only offered at Centennial Middle School)	8	1 Semester		
HIGH SCHOOL				
Culinary Essentials I	9-12	1 Semester		
Interior Design	9-12	1 Semester	Art	
Clothing & Fashion Design (only offered at Glacier Peak High School)	9-12	1 Year		
Child Development	9-12	1 Semester		
Culinary Essentials II *Culinary Essentials I Pre Req	*9-12	1 Semester		Yes
International Cuisine *Culinary Essentials I Pre Req	*9-12	1 Semester		
Adv. Clothing & Fashion Design (only offered at Glacier Peak High School)	10-12	1 Year		
Early Childhood Education (only offered at Glacier Peak High School)	10-12	1 Semester		
Living on Your Own	11-12 Snohomish High School 12 Glacier Peak High School	1 Semester		

Culinary Arts & Food Service Management

NAME

Emily Condit

PATHWAY

Family & Consumer Science

AGE

18

EDUCATION

**Glacier Peak High School
Johnson and Wales University**



“I loved all the CTE courses I took in high school.

Every class I took I enjoyed a lot and I loved the teachers as well. I use a lot of the material that I learned in those classes today, which is really awesome!”

APPRENTICESHIPS CERTIFICATES/COURSES

SCHOOL NAME

American Culinary Federation

APPRENTICESHIP.GOV

TWO-YEAR DEGREES

SCHOOL NAME

Seattle Central College
The Art Institute of Seattle
Edmonds Community College

FOUR-YEAR DEGREES

SCHOOL NAME

Washington State University
Seattle University
Central Washington University

JOBS

- Food Preparation Workers
- Apprentice Meat Cutter

JOBS

- Chef/Head Cook
- Childcare Provider
- Fashion Designer

JOBS

- Dietician
- Counselors
- Interior Designer

HEALTH SCIENCE



PATHWAY COURSES	Grade	Length	Equivalency/ Requirement Met	College Credit
Molecular Biology for Global Health <small>(only offered at Glacier Peak High School)</small>	10-12	1 Year	Science	Yes
Sports Medicine I	10-12	1 Year		
Adv. Molecular Biology for Global Health <small>(only offered at Glacier Peak High School)</small>	11-12	1 Year	Science	Yes
Sports Medicine II	11-12	1 Year		

Molecular Biology students can apply for summer internships at local research centers. Past participants have interned at Fred Hutchinson Research Center, Microsoft, BioQuest, Institute for Systems Biology.

Sports Medicine students job shadow the school's athletic trainer as a student assistant in the training room and athletic events.



“Through the Molecular Biology for Global Health class, I learned that creating a state of health is key to our global future. Ever since, I have been chasing infectious diseases and am now a Ph.D. Candidate of Microbiology and Immunology.

Ph.D Candidate
Department of
Microbiology &
Immunology

NAME
Jennifer Dankoff

PATHWAY
Health
Science

AGE
25

EDUCATION
Glacier Peak High
School
UW and Montana State
University

APPRENTICESHIPS
CERTIFICATES/COURSES

SCHOOL NAME
 University of Washington


- JOBS**
- Medical Assistant Apprentice

TWO-YEAR
DEGREES

SCHOOL NAME
 Lake Washington Institute of Technology
 Shoreline Community College
 Bellevue College

- JOBS**
- Physical Therapy Assistant
 - Pharmacy Technician
 - Dental Hygienist

FOUR-YEAR
DEGREES or HIGHER

SCHOOL NAME
 Eastern Washington University
 Washington State University
 University of Washington

- JOBS**
- Athletic Trainer
 - Biomedical Engineer
 - Nuclear Medicine Physician

INFORMATION TECHNOLOGY



PATHWAY COURSES	Grade	Length	Equivalency/ Requirement Met	College Credit
MIDDLE SCHOOL				
Computer Applications (only offered at Valley View Middle School)	7	1 Quarter		
Coding Robotics (only offered at Valley View Middle School)	8	1 Semester		
HIGH SCHOOL				
Technology Exploration	9	1 Semester		
Web Design	9-12	1 Semester		Yes
Intro to Computer Science	9-12	1 Semester		
AP Computer Science A	10-12	1 Year	3 rd Year Math	Yes
Advanced Web Design	10-12	1 Semester		

The Snohomish School District proudly partners with the TEALS Computer Science Program.

ENGINEER II-AT&T

TEALS Volunteer

NAME

Connor McDonald

PATHWAY

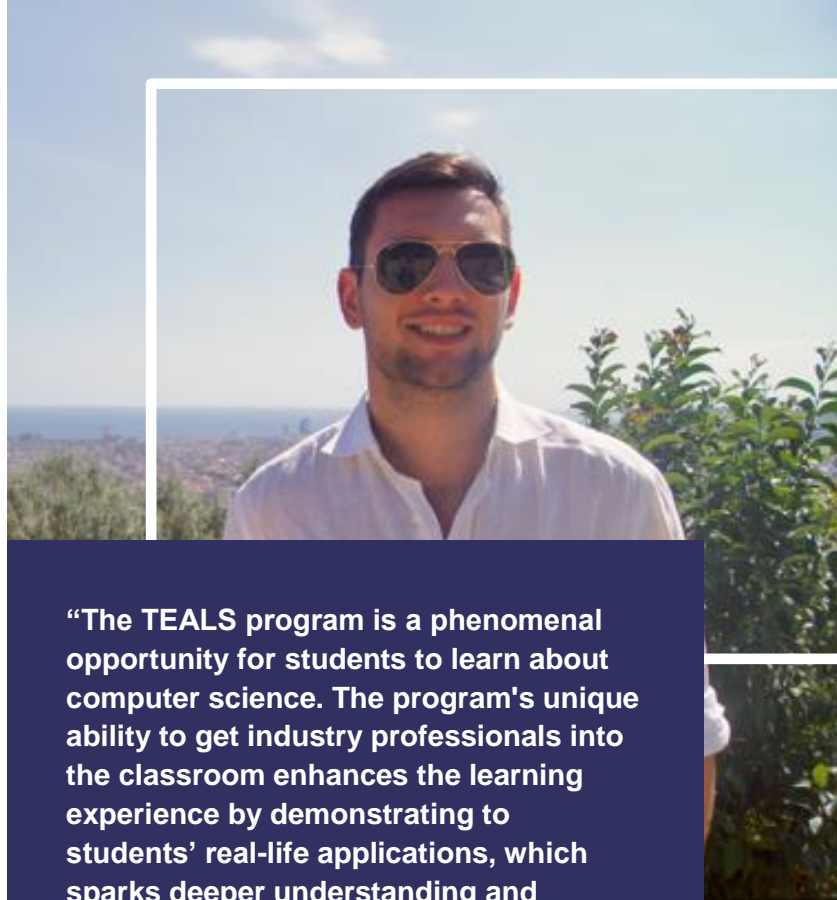
Information
Technology

AGE

24

EDUCATION

Snohomish High
School
UW- Electrical
Engineering



“The TEALS program is a phenomenal opportunity for students to learn about computer science. The program’s unique ability to get industry professionals into the classroom enhances the learning experience by demonstrating to students’ real-life applications, which sparks deeper understanding and inspiration.”

APPRENTICESHIPS CERTIFICATES/COURSES

PROGRAM NAME

ApprentiCareers.org

APPRENTICESHIP.GOV

TWO-YEAR DEGREES

SCHOOL NAME

North Seattle Community
College
Lake Washington Institute
Technology
Edmonds Community College

FOUR-YEAR DEGREES

SCHOOL NAME

University of Washington
Gonzaga University
Eastern Washington University

JOBS

- Web Developer
- Software Developer
- Network Security Administrator

JOBS

- Information Security Analyst
- Computer Programmer
- Web Developer

JOBS

- Software Developer
- Computer & Information Research Scientist
- Database Administrator

VISUAL COMMUNICATIONS



PATHWAY COURSES	Grade	Length	Equivalency/ Requirement Met	College Credit
MIDDLE SCHOOL				
Digital Photo/Media Production (only offered at Valley View Middle School)	8	1 Semester		
HIGH SCHOOL				
Intro to Digital Arts	9-12	1 Semester	Art	Yes
Digital Video	9-12	1 Semester	Art	
Photography	10-12	1 Semester	Art	
Adv. Photography	10-12	1 Semester	Art	
Computer Graphics	10-12	1 Semester	Art	Yes
Publications (Yearbook)	10-12 Snohomish High School 9-12 Glacier Peak High School	1 Year	Art or Senior English	Yes ^{Glacier Peak High School}



Digital Sports Producer

NAME
Evan Webeck

PATHWAY
**Visual
Communications**

AGE
24

EDUCATION
**Glacier Peak High
School**

**Walter Cronkite School
at Arizona State
University**

“My experience in yearbook, spanning my final two years at Glacier Peak, inspired me to pursue journalism at the Walter Cronkite School at Arizona State. While attending and since graduating, I've written for Sports Illustrated and MLB.com, covered ASU athletics and, for the past two years, worked at The Seattle Times, helping shape the voice and direction of my hometown sports section.”

Photo by Bettina Hansen courtesy of Seattle Times.

APPRENTICESHIPS CERTIFICATES/COURSES

SCHOOL NAME

ApprentiCareers.org

APPRENTICESHIP.GOV

JOBS

Web Developer
Cloud Support Specialist

TWO-YEAR DEGREES

SCHOOL NAME

The Art Institute of Seattle
North Seattle Community
College
Bellevue College

JOBS

Film & Video Editor
Audio & Video Tech
Example

FOUR-YEAR DEGREES

SCHOOL NAME

Western Washington
University
Seattle University
Central Washington University

JOBS

Graphic Designer
Producer-TV, Film, Radio
Multimedia Artist/Animator

SNOHOMISH SCHOOL DISTRICT

**1601 Avenue D
Snohomish, WA 98290**

360.563.7317

WWW.SNO.WEDNET.EDU/CTE



The Snohomish School District does not discriminate in any programs or activities on the basis of sex, race, creed, religion, color, national origin, age, veteran or military status, sexual orientation, gender expression or identity, disability, or the use of a trained dog guide or service animal and provides equal access to the Boy Scouts and other designated youth groups. The following employees have been designated to handle questions and complaints of alleged discrimination: Civil Rights Coordinator – Scott Peacock, 1601 Avenue D, Snohomish, WA 98290, 360-563-7282, scott.peacock@sno.wednet.edu; Title IX Coordinator and ADA – Darryl Pernat, 1601 Avenue D, Snohomish, WA 98290, 360-563-7285, darryl.pernat@sno.wednet.edu; Section 504 Coordinator and Harassment, Intimidation and Bullying – Shawn Stevenson, 1601 Avenue D, Snohomish, WA 98290, 360-563-7314, shawn.stevenson@sno.wednet.edu.