# CTE Career Pathways



**Program vision** » The Career and Technical Education (CTE) program provides educational opportunities to ALL students to explore their passions and develop professional skills to open pathways of opportunities. Students can explore six career pathways in all our high schools, participate in apprenticeships, internships, earn college credit, and industry (professional) certifications.



Engineering & Advanced Manufacturing



Energy & Sustainability



Health Sciences & Medical Careers



Communication & Information Technology



Education Careers



Business & Professional Services











# **High school courses**

Career and Technical Education (CTE) courses integrate rigor in academics, and career and leadership skills.

Industry certifications (professional cert) are noted with\* Fundamentals of Patient Care Certificate: Nursing Assistant (21-22 @ EHS only)

Dual credit (college credit) courses are noted with \*\*

Core Courses	Exploratory Courses	Advanced Courses	Skill Center Courses
Algebra 1 and 2	Anatomy and Physiology **	Fundamentals of Patience Care @ EHS*	Pre-Nursing (NAC)
Biology and the Environment	Biotechnology	AP BIO	Medical Terminology
Chemistry	Health Careers & Medical Terminology**	AP CHEM	
Family Health	Nutrition and Wellness	AP Seminar	
	Nutrition and Food Prep I, II	AP Physics	
	Sports Medicine 1, 2 and 3	AP Statistics	
		AP Psychology	



# Career and Technical Student Organizations (CTSOs)

CTSOs are part of all CTE courses. Students can explore careers, and practice their skills through competition at local, regional and national levels through after school programs.

- Health Occupations Students of America (HOSA)
- Skills USA
- Washington Career Technical Sports Medicine Association (WCTSMA)



# **Work based learning**

These are learning experiences that provide career guidance and exploration: job shadows, internships, apprenticeships, community speakers, field trips and jobs.

- Medical Careers Internship
- Sports Medicine Internship



For more information regarding Everett Public Schools Career Pathways, please contact your high school's career specialist and counselors. Visit the CTE web page on: Everettsd.org

# **Pathways to Health Sciences & Medical Careers**

Health and medical careers are all about helping others live healthy and productive lives. This field is for you, if you want to work in the medical field from mental health to research, and sports medicine.



# Work based learning Extended learning

Post High School Opportunities

# **Apprenticeships**

- Dispensing Optician (Joint Apprenticeship and Training Committee)
- Medical/Dental Assistant (Washington Association of Community and Migrant Health Workers)

# Sample Apprenticeship Careers

- Dispensing Optician §
- Medical Assistants §
- Dental Assistants 6

# **SKILLS**

- Social perception
- Service orientation
- Strong math & science skills
- · Good decision-making
- Active listening

#### **Certificates**

- Clinical Lab Assistant EMT
- Nursing Assistant (offered 21-22 at EHS)
- Phlebotomy Technician
- Electrocadiography (EKG)/Cardiac Monitor Technician
- Mental Health Technician

### **Sample Certificate Careers**

- Dental Assistants 6
- Massage Therapists 6 6
- Medical Assistants
- Phlebotomists (3)
- Pharmacy Technician §

#### **TRANSFER**



#### **SALARIES**

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# 2-Year Programs

- Dental Assistant
- Diagnostic Ultrasound Diagnostic
- Nutrition >
- Physical Therapy Assistant
- Medical Assistant

# **Sample 2-year program Careers**

- Assistants Physical Therapy (9) (9)
- Assistants Radiology S
   Technician

# **4-Year Degrees**

- Nursing
- Kinesiology
- Psychology
- Biology

# **Sample 4-year degree Careers**

- Occupational Therapists (3 (3) (5)
- Registered Nurses 😉 😉 😉
- Speech Pathologists 😉 😉 😉
- Dentists 😉 😉 😉
- Physical Therapist 999

CAREER CONNECTED LEARNING





# **High school courses**

Career and Technical Education (CTE) courses integrate rigor in academics, and career and leadership skills.

Industry certifications (professional cert) are noted with\*

- Foundations of Manufacturing Certificates: Core Plus, OSHA, NC3

Dual credit (college credit) courses are noted with \*\*

	Core Courses	Exploratory Courses	Advanced Courses	Skill Center Courses
	Algebra 1 and 2	CAD and 3D Printing (MS) - HS credit	AP Physics	Electric Engineering Technology
	Geometry	Foundations of Manufacturing @CHS*	AP Capstone: Research in Science and Engineering	Precision Machining
	Physics in the Universe	Engineering Your World		Welding and Metal Fabrication
23		Robotics Technology **		
)		Robotics & Mechatronics **		
		Astronomy and Aerospace Engineering		
		Technical Theatre 1, 2, 3		



# Career and Technical Student Organizations (CTSOs)

CTSOs are part of all CTE courses. Students can explore careers, and practice their skills through competition at local, regional and national levels through after school programs.

- Technology Student Association (TSA)
- Robotics (FRC/FTC/FLL/FLL jr/Drone League)
- SkillsUSA
- TARC Team America Rocketry
- Washington Thespian



# **Work based learning**

These are learning experiences that provide career guidance and exploration: job shadows, internships, apprenticeships, community speakers, field trips and jobs.

- Engineering & Manufacturing Internship
- Aerospace Joint Apprenticeship Committee
  (AJAC Youth Apprenticeship)



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# **Pathways to Engineering & Advanced Manufacturing Careers**

Careers in engineering and advanced manufacturing include scientists, engineers, technicians, production and support workers. This pathway is for you like working with your hands, creative, want to design, work with robotics and technology.



# Post High School Opportunities Rydra School Opportunities Extended learning Extended learning

## **Apprenticeships**

- Moldmaking (Ardagh Group)
- GMP Maintenance In-Plant (Ardagh Group)
- Aerospace (Bucher Aerospace Corporation)

# **Sample Apprenticeship Careers**

- □ Ironworker **⑤ ⑤**
- Industrial Maintenance Mechanic § §

# **SKILLS**

- Troubleshooting
- Good writing skills
- Hands-on work
- Identifying problems
- Active listening

#### **Certificates**

- Aircraft Avionics Systems
- Engineering Technology (CAD)
- Composites
- Mechatronics Systems
- Core Plus (offered at CHS)

# **Sample Certificates Careers**

- Avionics Technician 🚱 🚱
- Engineering Technician § §
- Composite Structures Technician § §
- Maintenance Technicians (9) (9)

## **TRANSFER**



# **SALARIES**

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# 2-Year Programs

- Engineering
- Mechanical Design Technology
- Robotics & Flectronics

#### Sample 2-year program Careers

- Electrical and Electronics (S) (S)
- Engineering Designer (§ (§

# **4-Year Degrees**

- Mechanical Engineering
- Electrical Engineering
- Mathematics/Computer Science

# **Sample 4-year degrees Careers**

- Construction Managers (3 (3) (5)
- Industrial Engineers (S) (S)
- Mechanical Engineer §§§

CAREER CONNECTED LEARNING





# **High school courses**

Career and Technical Education (CTE) courses integrate rigor in academics, and career and leadership skills.

Industry certifications (professional cert) are noted with\*
- Cybersecurity Certificate: Comptia and Security Plus

Dual credit (college credit) courses are noted with \*\*

Exploratory Courses	Advanced Courses	Skill Center Courses
IT Fundamentals @JHS	Cybersecurity @JHS*	DigiPen Art & Animation
Computer Sci Through Graphics & Animation	AP Computer Science Principles	Video Game Design
Digital Photography 1, 2	AP Computer Science A	
Graphic Design 1**, 2** and 3	AP Studio Art (2D and 3D drawing)	
Publications 1, 2 and 3		
Video Production 1, 2, and 3		
Web Design**		
	IT Fundamentals @JHS  Computer Sci Through Graphics & Animation  Digital Photography 1, 2  Graphic Design 1**, 2** and 3  Publications 1, 2 and 3  Video Production 1, 2, and 3	IT Fundamentals @JHS  Computer Sci Through Graphics & Animation  Digital Photography 1, 2  Graphic Design 1**, 2** and 3  Publications 1, 2 and 3  Video Production 1, 2, and 3



# Career and Technical Student Organizations (CTSOs)

CTSOs are part of all CTE courses. Students can explore careers, and practice their skills through competition at local, regional and national levels through after school programs.

- Technology Student Association (TSA)
- Skills USA
- Robotics



# **Work based learning**

These are learning experiences that provide career guidance and exploration: job shadows, internships, apprenticeships, community speakers, field trips and jobs.

Information and Communication Technology Internship



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# **Pathways to Communication & Information Technology Careers**

Information and communication technology jobs focus on creativity and problem solving skills to improve people's daily lives through digital technology. This path is for you if you like working with digital tools, creating programs, problem solving systems, and digital media/art.



# High School learning Work based learning Extended learning

Post High School Opportunities

#### **Apprenticeships**

- Database Administrator (Microsoft)
- Windows System Administrator (Microsoft)
- Web Developer (F5)

# **Sample Apprenticeships Careers**

- △ Web Developer **⑤ ⑤**
- Database Administrator §

# **SKILLS**

- Passion for technology
- Good writing skills
- Identifying problems
- · Good decision-making
- · Active listening

#### **Certificates**

- A+ Certificate
- Security+ Certificate
- Network+

# **Sample Certificates Careers**

- Computer Equipment
   Installers and Repairers (§) (§)
- Cybersecurity Analyst 666
- Business Systems Analyst (3) (3)

#### **TRANSFER**



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# 2-Year Programs

- Business Information Technology
- Network Technology Associate >
- Computer Security & Network Technology

#### Sample 2-year program Careers

- Website Developer 😉 😉
- Computer Network Support 😏 😏
- Help Desk Analyst 😏 😉
- IT Specialist 
  ⑤ ⑤

## **4-Year Degrees**

- Applied Computing
- Computer Engineering
- Software Engineering
- Computer and Information Systems Security

## **Sample 4-year degrees Careers**

- App Developers 😏 😉
- Computer and InformationSystems Managers § § §

CAREER CONNECTED LEARNING





# **High School courses**

Career and Technical Education (CTE) courses integrate rigor in academics, and career and leadership skills.

Industry certifications (professional cert) are noted with\*

Dual credit (college credit) courses are noted with \*\*

Core Courses       Exploratory Courses       Advanced Courses       Skill Center Courses         Biology and the Environment       AP Environmental Science (9th-12th)         Chemistry       AP Biology         AP Chemistry       AP Capstone: Research in Science and Engineering				
Chemistry  AP Biology  AP Chemistry  AP Capstone: Research in Science	Core Courses	Exploratory Courses	Advanced Courses	Skill Center Courses
AP Chemistry  AP Capstone: Research in Science	Biology and the Environment		AP Environmental Science (9th-12th)	
AP Capstone: Research in Science	Chemistry		AP Biology	
			AP Chemistry	



# Career and Technical Student Organizations (CTSOs)

CTSOs are part of all CTE courses. Students can explore careers, and practice their skills through competition at local, regional and national levels through after school programs.

- Technology Student Association (TSA)
- Future Farmers of America (FFA)
- Environthon Snohomish County



# **Work based learning**

These are learning experiences that provide career guidance and exploration: job shadows, internships, apprenticeships, community speakers, field trips and jobs.

Energy and Sustainability Internship

For more information regarding Everett Public Schools Career Pathways, please contact your high school's career specialist and counselors. Visit the CTE web page on: Everettsd.org

# **Pathways to Energy & Sustainability Careers**

The Energy and Sustainability pathway will help you understand environmental management, prepare you for careers that promote environmentally friendly practices, energy production, research and more. This path is for you, if you want to make a positive impact on the environment, people's quality of life and future generations.



# High Schoo Work based learning

Post High School Opportunities

## **Apprenticeships**

- Energy Services (Cities of Ellensburg and Richland)
- Lineman/Meterman (Puget Sound Energy Company)
- Sprinkler Fitter (Inland Fire Protection, Inc.)

# **Sample Apprenticeship Careers**

- Linemen (3)
- Metermen **99**
- Electrical Contractor 99

# **SKILLS**

- Planning skills
- Identifying problems
- Strong math & science skills
- Strong reading skills
- Interest in environmental
- Interest in environmental science

#### **Certificates**

- Landscape and Restoration Horticulture
- Urban Agriculture Systems Certified
- Manger of Animal Resources Registered
- **Environmental Professional**

# **Sample Certificate Careers**

- Landscape Designer  **(9**
- Water Resource Specialist **6**

# **TRANSFER**



# **SALARIES**

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# 2-Year Programs

- Engineering >
- Engineering Technology >
- Biology 🔈

#### Sample 2-year program Careers

- Architectural and Civil Drafters (S)
- Civil Engineering Technicians 66
- Chemical Technicians (5)
- Forest & Conservation Technician (3)
- Food Scientists (3) (3)

# **4-Year Degrees**

- **Environmental Science**
- Organic & Sustainable Agriculture @WSU Everett
- **Energy Policy & Management**
- **Environmental Engineer**

## **Sample 4-year degree Careers**

- Bioinformatics Scientist
- Biochemists (3)
- Geoscientists 999
- Urban & Regional Planners (3) (3)







# **High School courses**

Career and Technical Education (CTE) courses integrate rigor in academics, and career and leadership skills.

Industry certifications (professional cert) are noted with\*

Dual credit (college credit) courses are noted with \*\*

Core Courses	Exploratory Courses	Advanced Courses	Skill Center Courses
	Childhood Development		Careers in Education
	Intro to Education		



# Career and Technical Student Organizations (CTSOs)

CTSOs are part of all CTE courses. Students can explore careers, and practice their skills through competition at local, regional and national levels through after school programs.

- Educators Rising
- Family, Career and Community Leaders of America (FCCLA)





# **Work based learning**

These are learning experiences that provide career guidance and exploration: job shadows, internships, apprenticeships, community speakers, field trips and jobs.

Educational Studies Internship

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# **Pathways to Education Careers**

Careers in education can impact students of all ages. The demand for teachers, paraeducators, counselors, and administrators is high, especially for those with certification in areas including special education, science, math, and English language learners.



# Apprenticeships Not Available

Work based

learning

**Post High School Opportunities** 

## **Sample Apprenticeship Careers**

Not Available

# **SKILLS**

- Active listening
- Instructing
- Speaking
- Juggling priorities
- Sensitivity to problems
- Monitoring

#### **Certificates**

- Paraeducator
- Early Childhood General
- S.T.A.R.S

# **Sample Certificates Careers**

- Early Childhood Paraeducator
- Early Childhood Support
- Childcare Worker S

# **TRANSFER**



#### **SALARIES**

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- \$ \$ \$ = Max > \$40/hr

For more information regarding Everett Public Schools Career Pathways, please contact your high school's career specialist and counselors can review this document with students and families.

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# 2-Year Programs

Associates with Early Childhood Education

# **Sample 2-year degree Careers**

Pre School Teacher (Public, Headstart, ECEAP) (§

# **4-Year Degrees**

- Education (Elementary, Secondary, Special Education)
- Communication
- Information Technology
- Food Systems
- Leadership Development (Graduate level)

## **Sample 4year degree Careers**

- Teacher 😘
- Communication Specialist §§
- Network Analyst/Technician SS
- Food & Nutrition Director 66
- Administrator (Principal, Director)

AREER CONNECTED LEARNING





# **High School courses**

Career and Technical Education (CTE) courses integrate rigor in academics, and career and leadership skills.

Industry certifications (professional cert) are noted with\*

Dual credit (college credit) courses are noted with \*\*

Core Courses	Exploratory Courses	Advanced Courses	Skill Center Courses
Algebra 1 and 2	Foundations of Business & Marketing	AP Macroeconomics	Fashion Merchandising
	Intro to Business Law	AP Microeconomics	Entrepreneurship
	Business Law	Business Operation <b>s</b>	Personal Finance
	Accounting 1, 2**	Entrepreneurship**	Cosmotology
	Business & Finance		
	Social Media Marketing		
	Economics		



# Career and Technical Student Organizations (CTSOs)

CTSOs are part of all CTE courses. Students can explore careers, and practice their skills through competition at local, regional and national levels through after school programs.

- △ DECA
- Future Business Leaders of America (FBLA)



# **Work based learning**

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specialist and counselors. Visit the CTE web page on: Everettsd.org

Business & Professional Services Internship



# **Pathways to Business & Professional Services**

Business careers cover variety of industries including finance, information technology, marketing and retail. Depending on an individual's interests and skills careers can be found at all levels, from entry level to management.



Work based learning

Post High School Opportunities

# **Apprenticeships**

Not Available

# Sample Careers in Our Region

Not Available

# **SKILLS**

- Active listening
- Identifying problems
- Seeing details up close
- Organizing information
- Communicate in writing

#### **Certificates**

- Retail Management Certificate
- Administration Support Certificate
- Office Assistant Certificate

# Sample Careers in Our Region

**Sample Careers in Our Region** 

- Retail Store Manager 66
- Office Manager (5)

Sales Agent **99** 

Business Admin

Product Promoter 66

Advertising Agent 96

Project Managers 96

Office Assistant 6

# TRANSFER



# **SALARIES**

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# 2-Year Programs

- Associates in Business
- Business Management
- Entrepreneurship and Small Business
- Project Management
- Marketing and Sales

# Sample Careers in Our Region

- Agent and Business Managers **999**
- Accountant 666
- Marketing Specialist §§
- Financial Analyst **33**
- Human Resources Director 666

# **4-Year Degrees**

- **Business and Administration**
- Marketing
- Accounting
- Finance and Economics
- Human Resources

