2020 - 2021
CAREER & TECHNICAL EDUCATION

Career Pathways Catalog
Dear Parents, Guardians, and Students:

The Bellevue School District Career and Technical Education program is aligned with employment and industry trends across Washington State and the country. Today, Career and Technical Education (CTE) is a component of every student’s basic education experience and a genuine contributor to student engagement and success. With a focus on career exploration, acquisition of essential 21st century skills, and industry specific technical skills, CTE is preparing Bellevue School District students to be college and career ready at graduation.

Our comprehensive program supports the belief that all students should have career and educational choices as part of their high school experience. Therefore, starting at the middle school level, our CTE programs provide opportunities for students to begin to explore and design their future pathway. At the high school level, we offer 12 career pathways, delivering curriculum that is relevant to current workplace demands and aligns to industry standards. In the high schools, students can earn college credit while participating in CTE courses, and many students earn industry recognized certifications which support transition to post-secondary educational programs and/or employment. One of the strengths of the program is the strong partnership between CTE staff, the business community, local colleges, and community-based organizations.

This CTE Career Pathways Catalog is a guide to help parents, guardians, and students to see the many opportunities and programs available, and to help students design their education.

Sincerely,

Marilyn Henselman
Director of Career and Technical Education Programs
Table of Contents

Explore Your Options ............................................................................................................. 6
Earning College Credit ........................................................................................................... 8
Career Pathway Classes ....................................................................................................... 13
Agricultural Education ......................................................................................................... 15
Architecture, Manufacturing & Construction .................................................................... 18
Arts, AV Technology & Communication ........................................................................... 21
Business, Management & Marketing ................................................................................... 26
Health Sciences .................................................................................................................. 30
Hospitality & Tourism ......................................................................................................... 33
Human Services & Education .............................................................................................. 36
Information Technology ....................................................................................................... 39
STEM ................................................................................................................................... 43
Transportation ..................................................................................................................... 46
Middle School CTE Courses ............................................................................................... 49
Contact Information ............................................................................................................ 51
Students that explore career pathways in high school have increased motivation to learn and experience more positive outcomes in school and work.

The average high school graduation rate for students concentrating in CTE programs is 93 percent, compared to an average national freshman graduation rate of 80 percent.

91 percent of high school graduates who earned 2-3 CTE credits enrolled in college.

CTE Career Pathway classes enable you to earn college credit, grow your professional network early, earn industry certifications, and be more competitive for college applications and jobs.

Through hands-on learning, connections with industry experts, and college prep career-focused coursework, CTE works for BSD students!

To learn more: www.acteonline.org
Local Labor Market Snapshot
Washington State  ■  October 2019

Unemployment Rate

Total Workers

King County

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.7%</td>
<td>3.4%</td>
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<tr>
<td></td>
<td>1.3M workers</td>
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Washington

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>4.1%</td>
<td>4.1%</td>
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<tr>
<td></td>
<td>3.96M workers</td>
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</table>

United States

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.6%</td>
<td>4.1%</td>
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<tr>
<td></td>
<td>164M workers</td>
<td></td>
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</tbody>
</table>

STEM Jobs
37% of all King County jobs are STEM

STEM Jobs Requiring 4-Year Degree (Annual Median Salary)

- Software Developer: $134,088
- Registered Nurse: $84,109
- Industrial Engineers: $108,843
- Civil Engineers: $94,737

STEM Jobs Requiring Some Post-High School Education, but Less Than a 4-Year Degree

- Dental Hygienists: $92,266
- Radiologic Technologists: $72,260
- Computer User Support Specialists: $63,263
- Environmental Science Technician: $72,948

Source: Washington STEM data tool

Top 5 | Annual Job Openings*
(2017 – 2022)

1. Software Developers, Applications
2. Carpenters
3. Registered Nurses
4. Business Operations Specialists
5. Accountants & Auditors

Source: Washington STEM data tool

Top 5 | Major Industry Sectors

1. Trade, Transportation and Utilities
2. Government
3. Education and Health Services
4. Professional & Business Services
5. Leisure and Hospitality

Source: Washington State Employment Security Dept. - March 2018 King County

Largest Employers

<table>
<thead>
<tr>
<th>Employer</th>
<th># of Job Openings*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amazon</td>
<td>10,793</td>
</tr>
<tr>
<td>State of Washington</td>
<td>8,671</td>
</tr>
<tr>
<td>Providence Health &amp; Services</td>
<td>8,551</td>
</tr>
<tr>
<td>University of Washington</td>
<td>3,733</td>
</tr>
<tr>
<td>Lowe's</td>
<td>3,717</td>
</tr>
<tr>
<td>MultiCare Health System</td>
<td>3,408</td>
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<tr>
<td>Peace Health</td>
<td>3,140</td>
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<tr>
<td>Kaiser Permanente</td>
<td>2,653</td>
</tr>
<tr>
<td>Catholic Health Initiatives</td>
<td>2,580</td>
</tr>
<tr>
<td>Microsoft</td>
<td>2,573</td>
</tr>
<tr>
<td>Boeing</td>
<td>1,939</td>
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</tbody>
</table>

Source: Employment Security Department/LMEA; Gartner Talent Neuron, WA State, August-November 2019

Top 5 | Online Job Postings
October 2019

1. Software Developers, Application
2. Registered Nurses
3. Retail & Retail Supervisors
4. Computer Occupations
5. Marketing Managers


Bellevue School District
Career & Technical Education Pathways

- Arts, AV Technology & Communications
- Transportation
- Business & Marketing
- Architecture, Construction & Manufacturing
- Education & Training
- Environmental Horticulture
- Family & Consumer Sciences
- Health Sciences
- Hospitality & Tourism
- Information & Technology
- STEM

For more information: https://bsd405.org/programs/cte/
With so many different career pathways, it is hard to know where to start exploring your options. The best career choice is one where your passions, interests, aptitudes, values, and personality match the type of work you do. To help you get started exploring YOUR options, answer the questions below to see what type of personality you have. Although everyone has traits in most areas, the one with the most “Yes” responses, is your strongest personality type. Have fun exploring!!

DO YOU LIKE:
- Being spontaneous?
- Creating things?
- Using your imagination?
- Working by your own rules?
- Working on class projects you can do your way?

WOULD SOMEONE WHO KNOWS YOU WELL SAY:
- You are artistic?
- You beat to your own drum?
- You are open-minded?
- You are intuitive?
- You are independent?
- You are expressive?

YOU ARE ARTISTIC AND A “CREATOR”
EXPLORE THE FOLLOWING!
- Architect
- Graphic Designer
- Jeweler
- Journalist
- Attorney
- Photographer
- Fashion Designer
- Public Relations Specialist
- Archeologist
- Biochemist
- Floral Designer
- Artist
- Advertising Executive

DO YOU LIKE:
- Working with people?
- Working in a fast-paced environment?
- To be in charge?
- Being competitive?
- Socializing?

WOULD SOMEONE WHO KNOWS YOU WELL SAY:
- You are outgoing?
- You are optimistic?
- You adventurous?
- You are creative?
- You are a leader?
- You are confident?

YOU ARE ENTERPRISING AND A “PERSUADER”
EXPLORE THE FOLLOWING!
- Buyer or Purchaser
- Public Relations Specialist
- Arbitrator
- Physician
- Judge
- Accountant
- Business Manager
- Chef
- Detective
- Administrative Assistant
- Real Estate Agent
- Politician
- Registered Nurse

DO YOU LIKE:
- Working with people?
- Helping others?
- Working in a team?
- Doing things correctly and ethically?
- Socializing?

WOULD SOMEONE WHO KNOWS YOU WELL SAY:
- You are outgoing?
- You are a good friend?
- You have good communication skills?
- You are kind?
- You are a good team player?
- You are a good listener?

YOU ARE SOCIAL AND A “HELPER”
EXPLORE THE FOLLOWING!
- Lawyer
- Teacher
- Judge
- Credit Counselor
- Tour Guide
- Human Resource Manager
- Registered Nurse
- Therapist
- News Analyst
- Minister
- Dietician
- Social Worker
- Police Officer
DO YOU LIKE:
• Solving puzzles?
• Building or fixing things?
• Working with tools or machinery?
• Working with your hands?
• Spending time outside?

WOULD SOMEONE WHO KNOWS YOU WELL SAY:
• You are practical?
• You are down to earth?
• You are persistent?
• You are highly independent?
• You are solution oriented?
• You are adventurous?

YOU ARE REALISTIC AND A “DOER”

EXPLORE THE FOLLOWING!
• Physician
• Hydrologist
• Chef
• Commercial Pilot
• Software Developer
• Scientist
• Carpenter
• Electrician
• Plumber
• Construction Manager
• Veterinarian Assistant
• Engineer
• Detective or Criminal Investigator

DO YOU LIKE:
• Working with data?
• Working with numbers?
• Solving puzzles?
• To make to-do lists?
• Things organized and tidy?

WOULD SOMEONE WHO KNOWS YOU WELL SAY:
• You are practical?
• You are reliable?
• You are logical?
• You are efficient?
• You are not a risk taker?
• You are respectful?

YOU ARE CONVENTIONAL AND AN “ORGANIZER”

EXPLORE THE FOLLOWING!
• Accountant
• Engineer
• Pharmacist
• Librarian
• Insurance Agent
• Sales Representative
• Statistician
• Paralegal
• Insurance Adjuster
• Human Resource Consultant
• Education Administrator
• Scientist
• Hospitality Manager

DO YOU LIKE:
• Solving problems?
• Working by yourself?
• Learning new things?
• A new challenge?
• To understand how things work?

WOULD SOMEONE WHO KNOWS YOU WELL SAY:
• You are quiet or shy?
• You are independent?
• You are a deep thinker?
• You have original ideas?
• You are methodical?
• You are naturally curious?

YOU ARE INVESTIGATIVE AND A “THinker”

EXPLORE THE FOLLOWING!
• Research Scientist
• Judge
• Forester
• Librarian
• Tool & Die Maker
• Surgeon
• Programmer
• Engineer
• College Professor
• Veterinarian
• Dental Technician
• Economist
• Financial Analyst

WHAT DOES YOUR FUTURE HOLD FOR YOU?
The Bellevue School District has 11 different career program areas for you to start investigating and planning your future. Career pathways and courses begin on page 13. Be the creator of your future world and start exploring your career pathway today!!
Many Bellevue School District CTE classes have dual credit agreements with local colleges. Students must earn a “B” in the course and pay a fee of $50 for the year. During the school year, students can earn as many college credits as they want for this fee. Upon graduation, students request their college transcript be sent to the institute they will be attending. In the 2018-2019 school year, BSD students earned 4,263 college credits through Pacific NW College Connections! (Formerly Tech Prep College Connections.) With credits at the University of Washington costing $1,175 per credit, this could be a huge savings!!

<table>
<thead>
<tr>
<th>Course Title*</th>
<th>College Providing Credit</th>
<th>College Course Title</th>
<th>Credits Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCOUNTING 1 and 2 (Must take both classes to receive credit.)</td>
<td>Bellevue College</td>
<td>ACCT 101: Practical Accounting</td>
<td>8</td>
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<tr>
<td></td>
<td></td>
<td>ACCT 135: Business Payroll Accounting</td>
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</tr>
<tr>
<td>ACCOUNTING 3 and 4 (Must take both classes to receive credit.)</td>
<td>Bellevue College</td>
<td>ACCT 225: Survey of Financial &amp; Managerial Accounting</td>
<td>5</td>
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<tr>
<td>ADVANCED CULINARY ARTS</td>
<td>LW TECH</td>
<td>CULA 128: Food Service Safety &amp; Sanitation</td>
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<tr>
<td></td>
<td></td>
<td>CULA 130: Supervision &amp; Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CULA 142: Costing &amp; Menu Planning</td>
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<tr>
<td>ADVANCED DIGITAL MEDIA PRODUCTION (Both semesters)</td>
<td>Bellevue College</td>
<td>DMA 246: Video Fundamentals</td>
<td>10</td>
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<tr>
<td></td>
<td>Shoreline CC</td>
<td>DMA 247: Video Implementation</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>FILM 257: Video Production 2</td>
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<tr>
<td>ADVANCED MARKETING &amp; ENTREPRENEURSHIP (One year)</td>
<td>Bellevue College</td>
<td>MKTG 299: Individual Studies in Marketing</td>
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<tr>
<td>ANATOMY AND PHYSIOLOGY (One year)</td>
<td>Bellevue College</td>
<td>AHE 130: Human Systems</td>
<td>5</td>
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<tr>
<td>AP COMPUTER SCIENCE (One year)</td>
<td>Bellevue College</td>
<td>CS 210: Fundamentals of Computer Science</td>
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<tr>
<td></td>
<td>Edmonds CC</td>
<td>CIS 100: CIS Fundamentals</td>
<td>5</td>
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<tr>
<td></td>
<td></td>
<td>CIS 125: Network Station</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>CIS 199: Special Topics</td>
<td></td>
</tr>
<tr>
<td>AP COMPUTER SCIENCE PRINCIPLES (One year)</td>
<td>Bellevue College</td>
<td>CS 210: Fundamentals of Computer Science</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Edmonds CC</td>
<td>CIS 100: CIS Fundamentals</td>
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<tr>
<td></td>
<td></td>
<td>CIS 125: Network Station</td>
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<tr>
<td></td>
<td></td>
<td>CIS 199: Special Topics</td>
<td></td>
</tr>
<tr>
<td>AP PHOTOGRAPHY PORTFOLIO/2-D DESIGN</td>
<td>LW Tech</td>
<td>DSGN 128: Digital Photography</td>
<td>4</td>
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<tr>
<td>AUTOMOTIVE TECHNOLOGY 1 (One year)</td>
<td>LW Tech</td>
<td>AUTO 210: Engines, Cylinder Blocks &amp; Cooling Systems</td>
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<tr>
<td>AUTOMOTIVE TECHNOLOGY 2 (One year)</td>
<td>LW Tech</td>
<td>AUTO 210: Engines, Cylinder Blocks &amp; Cooling Systems</td>
<td>10</td>
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<tr>
<td>BIOTECHNOLOGY</td>
<td>Shoreline CC</td>
<td>BIO 107: Biology &amp; Society</td>
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<tr>
<td>BUSINESS LAW</td>
<td>Bellevue College</td>
<td>BUS &amp; 201: Business Law</td>
<td>5</td>
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<tr>
<td>CHILD DEVELOPMENT</td>
<td>Bellevue College</td>
<td>EDUC &amp; 115: Child Development</td>
<td>5</td>
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<tr>
<td></td>
<td>LW Tech</td>
<td>EDUC &amp; 115: Child Development</td>
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<tr>
<td>CISCO NETWORKING ACADEMY</td>
<td>Bellevue College</td>
<td>NSCOM 201: Cisco Networking I</td>
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<td></td>
<td>Edmonds CC</td>
<td>NSCOM 202: Cisco Networking II</td>
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<td>NSCOM 203: Cisco Networking III</td>
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<td>NSCOM 204: Cisco Networking IV</td>
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<td>CIS 171: Cisco Networking I</td>
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<td>CIS 172: Cisco Networking II</td>
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<td>CIS 173: Cisco Networking III</td>
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<td></td>
<td>CIS 174: Cisco Networking IV</td>
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<tr>
<td>CISCO – ADVANCED CCNP</td>
<td>Clark College</td>
<td>NTEC 227: Cisco CCNP Router: Implementing IP</td>
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<tr>
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<td>NTEC 228: Cisco CCNP Switch: Implementing IP</td>
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<td>NTEC 229: Cisco CCNP TShoot: Implementing IP</td>
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<td>CISCO – CCNA SECURITY</td>
<td>Clark College</td>
<td>NTEC 225: Cisco CCNA Security</td>
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<td>Edmonds CC</td>
<td>CIS 268: Cisco CCNA Security</td>
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<tr>
<td>CODING IN PYTHON 1 &amp; 2 (Must take both classes to receive credit.)</td>
<td>Bellevue College</td>
<td>PROG 110: Introduction to Programming</td>
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<td></td>
<td>Edmonds CC</td>
<td>CIS 100: Computer Information Systems Fundamentals</td>
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<td>CIS 125: Network Workstation</td>
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<td>CIS 199: Special Topics</td>
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<td>Institution(s)</td>
<td>Description</td>
<td>Credits</td>
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<tr>
<td>-----------------------------------------------</td>
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<td>COMPUTER GRAPHICS 1 or 2</td>
<td>Bellevue College LW Tech</td>
<td>DMA 103: Graphic Design Fundamentals DSGN 121, DSGN 122: Vector Illustration 1 w/ Illustrator &amp; Image Editing w/ Photoshop</td>
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<tr>
<td>DIGITAL MEDIA PRODUCTION 1 or 2</td>
<td>Shoreline CC</td>
<td>Film 256: Video Production 1</td>
<td>5</td>
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<tr>
<td>DIGITAL MEDIA PRODUCTION 1 or 2 (Year-long)</td>
<td>Bellevue College Shoreline CC</td>
<td>DMA 246: Video Fundamentals FILM 256: Video Production 1</td>
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<tr>
<td>ENTREPRENEURSHIP</td>
<td>Bellevue College</td>
<td>DMA 103: Graphic Design Fundamentals DSGN 121 &amp; DSGN 122: Vector Illustration 1 w/ Illustrator &amp; Image Editing w/ Photoshop</td>
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<tr>
<td>GRAPHIC ARTS 1 or 2</td>
<td>Bellevue College LW Tech</td>
<td>DMA 103: Graphic Design Fundamentals DSGN 121 &amp; DSGN 122: Vector Illustration 1 w/ Illustrator &amp; Image Editing w/ Photoshop</td>
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<tr>
<td>GRAPHIC DESIGN AND PRODUCTION STUDIO</td>
<td>Bellevue College LW Tech</td>
<td>DMA 103: Graphic Design Fundamentals DSGN 121 &amp; DSGN 122: Vector Illustration 1 w/ Illustrator &amp; Image Editing w/ Photoshop</td>
<td>5</td>
</tr>
<tr>
<td>IB BUSINESS AND MANAGEMENT</td>
<td>Bellevue College</td>
<td>MKTG 131: Principles of Professional Selling BUS 120: Principles of Marketing</td>
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<tr>
<td>INTERIOR DESIGN AND HOUSING</td>
<td>Bellevue College</td>
<td>INDES 140: Intro to Interior Design</td>
<td>5</td>
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<tr>
<td>INTRODUCTION TO ENGINEERING DESIGN 1 &amp; 2 (Must take both classes to receive credit)</td>
<td>Bellevue College LW Tech</td>
<td>ENGR 100: College Success in Engineering</td>
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<tr>
<td>INTRODUCTION TO HEALTH CARE</td>
<td>Bellevue College</td>
<td>AHE 100: Intro to Healthcare</td>
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<tr>
<td>INTRODUCTION TO HORTICULTURE</td>
<td>LW Tech</td>
<td>HORT 299: Horticulture Independent Studies (semester)</td>
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<tr>
<td>INTRODUCTION TO MARKETING</td>
<td>Shoreline CC</td>
<td>BUS 120: Principles of Marketing MKTG 131: Principles of Professional Selling</td>
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<tr>
<td>NURSERY &amp; GREENHOUSE OPERATIONS (Year)</td>
<td>LW Tech</td>
<td>HORT 299: Horticulture Independent Studies</td>
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<tr>
<td>Course Title</td>
<td>Institution</td>
<td>Course Code</td>
<td>Credit Hours</td>
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<tr>
<td>PHOTOGRAPHY 1 or 2</td>
<td>LW Tech</td>
<td>DSGN 128: Digital Photography</td>
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<tr>
<td>PRINCIPLES OF ENGINEERING (Year-long)</td>
<td>LW Tech</td>
<td>ENGR&amp;100: College Success in Engineering</td>
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<tr>
<td>RETAIL MANAGEMENT—STUDENT STORE</td>
<td>Bellevue College</td>
<td>TGT 299: Individual Studies in Marketing</td>
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<tr>
<td>TEACHING ACADEMY (One year)</td>
<td>Cascadia CC</td>
<td>UC 102: Field Experience in Education</td>
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<tr>
<td>TECHNICAL THEATER 1 and 2 (One year)</td>
<td>Shoreline CC</td>
<td>DRAMA 207: Theater Production 1</td>
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<tr>
<td>TELEVISION BROADCASTING (Year-long)</td>
<td>Bellevue College</td>
<td>DMA 246: Video Fundamentals</td>
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<tr>
<td>VIDEO GAME DESIGN</td>
<td>Bellevue College</td>
<td>DMA 106: Animation &amp; Game Design Fundamentals</td>
<td>5</td>
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<tr>
<td>WEB PUBLISHING</td>
<td>Bellevue College</td>
<td>DMA 107: Web Multimedia Fundamentals</td>
<td>5</td>
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<tr>
<td>WELDING TECHNOLOGY, DESIGN AND FABRICATION</td>
<td>LW Tech</td>
<td>WELD 101: Oxy/Acetylene Cutting &amp; Welding</td>
<td>7</td>
</tr>
</tbody>
</table>

*Students should check with individual teachers about the dual college credit offered in their class.*

For more information regarding Pacific NW College Connections college credit:
Tanya Rettinger, Pacific NW College Credit Director: tanya@PNWCollegeCredit.org
Amy West, Program Specialist: amy@PNWCollegeCredit.org
Email: info@PNWcollegecredit.org
Website: www.PNWCollegeCredit.org
## INDUSTRY AND PATHWAY CERTIFICATIONS

<table>
<thead>
<tr>
<th>CERTIFICATION</th>
<th>CLASS</th>
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<tbody>
<tr>
<td>ACA – Adobe Certified Associate</td>
<td>Graphics Arts 1 &amp; 2</td>
</tr>
<tr>
<td></td>
<td>Photography 1 &amp; 2</td>
</tr>
<tr>
<td>NATEF - ASE – National Institute for Automotive Service Excellence</td>
<td>Digital Media Production</td>
</tr>
<tr>
<td>8 Exams</td>
<td>Advanced Digital Media</td>
</tr>
<tr>
<td>SP2 – Safety and Pollution Prevention Certification</td>
<td>Production</td>
</tr>
<tr>
<td>CDX Curriculum Completion Certification</td>
<td>Television Broadcasting</td>
</tr>
<tr>
<td>ATB Certificate of Completion</td>
<td></td>
</tr>
<tr>
<td>CCNA — Cisco Certified Network Associate</td>
<td>Automotive Technology 1 &amp; 2</td>
</tr>
<tr>
<td></td>
<td>Cisco Networking Academy</td>
</tr>
<tr>
<td>CCNP (3 exams) – Cisco Certified Network Professional</td>
<td>Advanced Cisco – CCNP</td>
</tr>
<tr>
<td>CCSP – Cisco Certified Security Professional</td>
<td>Advanced Cisco -- Cybersecurity</td>
</tr>
<tr>
<td>NSA CNSS 4011 – National Security Agency &amp; Committee on National Security</td>
<td>Advanced Cisco -- Cybersecurity</td>
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<tr>
<td>CNA – Certified Nursing Assistant</td>
<td>Health Science Careers</td>
</tr>
<tr>
<td>American Red Cross Professional BLS for Healthcare Providers</td>
<td>Health Science Careers</td>
</tr>
<tr>
<td>American Red Cross Adult/AED/First Aid</td>
<td>Introduction to Health Care</td>
</tr>
<tr>
<td>Food Handler’s Permit</td>
<td>Culinary Essentials</td>
</tr>
<tr>
<td></td>
<td>Culinary Arts</td>
</tr>
<tr>
<td></td>
<td>Retail Management—Student Store</td>
</tr>
<tr>
<td>MOS – Microsoft Office Specialist</td>
<td>Microsoft Office/Business Technology 1 &amp; 2</td>
</tr>
<tr>
<td>Word, Word Expert, Excel, Excel Expert, Outlook, Power Point, Access</td>
<td></td>
</tr>
<tr>
<td>MTA – Microsoft Technology Associate</td>
<td>AP Computer Science Principles</td>
</tr>
<tr>
<td>Java, JavaScript, Networking, Security Fundamentals, Cloud Fundamentals,</td>
<td>AP Computer Science</td>
</tr>
<tr>
<td>Mobility &amp; Device Fundamentals, Windows Operating Systems, Database</td>
<td>Special Topics in Computer Science</td>
</tr>
<tr>
<td>Fundamentals, Mobility &amp; Device Fundamentals, HTML5, HTML &amp; CSS,</td>
<td>Cisco Networking, Advanced Cisco, Cybersecurity</td>
</tr>
<tr>
<td>Python, Software Development</td>
<td></td>
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<tr>
<td>OSHA 10 Construction</td>
<td>Construction Technology</td>
</tr>
<tr>
<td></td>
<td>Welding Technology, Design &amp; Fabrication</td>
</tr>
<tr>
<td>ParaPro – Paraprofessional Certification</td>
<td>Teaching Academy 1 &amp; 2</td>
</tr>
<tr>
<td>Precision Exams – CTE Skill Certificate Program</td>
<td>Accounting</td>
</tr>
<tr>
<td></td>
<td>Advanced Digital Media</td>
</tr>
<tr>
<td></td>
<td>Production</td>
</tr>
<tr>
<td></td>
<td>Anatomy &amp; Physiology</td>
</tr>
<tr>
<td></td>
<td>Biotechnology</td>
</tr>
<tr>
<td></td>
<td>Business Law</td>
</tr>
<tr>
<td></td>
<td>Child Development</td>
</tr>
<tr>
<td></td>
<td>Culinary Arts</td>
</tr>
<tr>
<td></td>
<td>Digital Media Production</td>
</tr>
<tr>
<td></td>
<td>Economics</td>
</tr>
<tr>
<td></td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td></td>
<td>Floral Design</td>
</tr>
<tr>
<td></td>
<td>Intro to Engineering</td>
</tr>
<tr>
<td></td>
<td>Design 1 &amp; 2</td>
</tr>
<tr>
<td></td>
<td>Intro to Horticulture</td>
</tr>
<tr>
<td>ServSafe Food Manager Certification</td>
<td>Introduction to Marketing</td>
</tr>
<tr>
<td></td>
<td>Introduction to Robotics</td>
</tr>
<tr>
<td></td>
<td>Nursery &amp; Greenhouse</td>
</tr>
<tr>
<td></td>
<td>Management</td>
</tr>
<tr>
<td></td>
<td>Personal Finance</td>
</tr>
<tr>
<td></td>
<td>Photography 1 &amp; 2</td>
</tr>
<tr>
<td></td>
<td>Principles of Engineering</td>
</tr>
<tr>
<td></td>
<td>Retail Management—Student Store</td>
</tr>
<tr>
<td></td>
<td>Special Topics in Computer Science</td>
</tr>
<tr>
<td></td>
<td>Television Broadcasting</td>
</tr>
<tr>
<td></td>
<td>Welding Technology, Design &amp; Fabrication</td>
</tr>
<tr>
<td>CRO – Certified Radio Operators</td>
<td>Radio and Podcast Production</td>
</tr>
<tr>
<td>CSWA – Certified SOLIDWORKS Associate</td>
<td>Introduction to Engineering Design</td>
</tr>
<tr>
<td></td>
<td>Principles of Engineering</td>
</tr>
</tbody>
</table>
Student leadership organizations are an integral part of extended learning in CTE classrooms. Students are encouraged to participate in their organization’s activities such as academic and industry competition, community service, and leadership conferences. These learning opportunities provide professional and leadership experiences to build resumes and college applications making students more competitive. Interacting with and learning from industry professionals provides insight into a variety of careers and enables students to start building their career network while still in high school. These organizations also provide many post-secondary scholarships.

### National Career & Technical Student Organizations

<table>
<thead>
<tr>
<th>Organization</th>
<th>Pathways</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DECA</strong></td>
<td>Business &amp; Marketing Pathways</td>
</tr>
<tr>
<td><strong>FFA</strong></td>
<td>Environmental Horticulture Pathway</td>
</tr>
<tr>
<td><strong>SkillsUSA</strong></td>
<td>All Pathways</td>
</tr>
<tr>
<td><strong>TSA</strong></td>
<td>STEM Pathway</td>
</tr>
<tr>
<td><strong>FCCLA</strong></td>
<td>Human Services Pathway</td>
</tr>
<tr>
<td><strong>HOSA</strong></td>
<td>Health Sciences Pathway</td>
</tr>
</tbody>
</table>

**DECA** prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality and management. [www.deca.org](http://www.deca.org)

**FFA** — Future Farmers of America makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth and career success through agricultural education. [www.ffa.org](http://www.ffa.org)

**SkillsUSA** empowers its members to become world-class workers and leaders. SkillsUSA improves the quality of our nation’s future skilled workforce through the development of framework skills that include personal, workplace and technical skills grounded in academics. [www.skillsusa.org](http://www.skillsusa.org)

**TSA** — Technology Student Association, enhances personal development, leadership, and career opportunities in STEM, whereby members apply and integrate these concepts through extracurricular activities, competition, and related programs. [www.tsa.org](http://www.tsa.org)

**FCCLA** — Family, Career & Community Leaders of Tomorrow, focuses on the multiple roles of the family member, wage earner and community leaders developing skills for life through: character development, creative and critical thinking, interpersonal communication, practical knowledge, and career preparation.

**HOSA** — Future Health Professionals, empowers students to become leaders in the global health community through education, collaboration, and experience. [www.hosa.org](http://www.hosa.org)

### Examples of Other CTE Leadership Organizations

<table>
<thead>
<tr>
<th>Organization</th>
<th>Pathways</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tech Project Club</strong></td>
<td>Information Technology Pathway</td>
</tr>
<tr>
<td><strong>Soup 4 Simpson</strong></td>
<td>Business &amp; Marketing Pathway</td>
</tr>
<tr>
<td><strong>FIRST Robotics</strong></td>
<td>STEM Pathway</td>
</tr>
<tr>
<td><strong>Woods U</strong></td>
<td>Architecture &amp; Manufacturing Pathway</td>
</tr>
<tr>
<td><strong>CTE Leadership Club</strong></td>
<td>All Pathways</td>
</tr>
<tr>
<td><strong>Knightpics (Photography)</strong></td>
<td>Arts, AV Tech. &amp; Communications Pathway</td>
</tr>
<tr>
<td><strong>ProStart</strong></td>
<td>Hospitality &amp; Tourism Pathway</td>
</tr>
<tr>
<td><strong>Coring Club</strong></td>
<td>Information Technology Pathway</td>
</tr>
<tr>
<td><strong>Video Production Club</strong></td>
<td>Arts, AV Tech. &amp; Communications Pathway</td>
</tr>
<tr>
<td><strong>Washington State Thespians</strong></td>
<td>Arts, AV Tech. &amp; Communications Pathway</td>
</tr>
</tbody>
</table>
*Not all CTSOs and clubs are available in every school.
**Not a complete list of all CTE leadership clubs and organizations.
# CAREER AND TECHNICAL EDUCATION — CAREER PATHWAYS

## MIDDLE SCHOOL

### Technology Education
- Digital Technology
- Media Technology
- Video Production 1 and 2
- CS Discoveries
- CS101 - Coding in Python 1
- CS102 - Coding in Python 2

### STEM
- Applied Engineering
- Design and Production - PLTW
- Robotics - PLTW
- Flight and Space – PLTW

## HIGH SCHOOL

### Agricultural Education
- Introduction to Horticulture +
- Nursery & Greenhouse Operations #+
- Environmental Sustainability
- Floral Design 1
- Floral Design 2

### Architecture/Construction/Manufacturing
- Metals Technology 1
- Metals Technology 2
- Welding Technology, Design & Fabrication #+
- Woods Technology 1
- Woods Technology 2
- Introduction to Construction Management
- Construction Technology #

### Arts, AV Technology & Communication
- Radio and Podcast Production #
- Television Broadcasting+
- Digital Media Production 1 +
- Digital Media Production 2 +
- Advanced Digital Media Production #+
- Cinematography & Cinema Production
- Graphic Arts 1+
- Graphic Arts 2+
- Graphic Design & Production Studio #+
- Computer Graphics 1 +
- Computer Graphics 2 +
- Photography 1 +
- Photography 2 +
- AP Photography Portfolio/2-D Design +
- Technical Theatre 1 +
- Technical Theatre 2
- Costume Design

### Business, Management & Administration
- Accounting 1
- Accounting 2 +
- Accounting 3
- Accounting 4 +
- Personal Finance +
- Business Law+
- Entrepreneurship +
- Economics
- AP Micro/AP Macro Economics
- IB Business & Management SL +
- IB Business & Management HL +
- Microsoft Office/Business Technology 1 +
- Microsoft Office/Business Technology 2 +

### Education & Training
- Teaching Academy 1 #+
- Teaching Academy 2 #+

### Health Sciences
- Introduction to Health Care+
- Health Science Careers *
- Anatomy & Physiology +
- Biotechnology +
- Public Health & Global Awareness

### Hospitality & Tourism
- Culinary Arts*+
- Advanced Culinary Arts*+

### Human Services
- Bakery and Pastry 1
- Child Development +
- Culinary Essentials 1
- Culinary Essentials 2
- Independent Living
- Interior Design & Housing +

### Information Technology
- Cisco Networking Academy *+
- Advanced Cisco – CCNP *+
- Advanced Cisco – Cybersecurity +
- Computer Technology+
- CS201 - Coding in Python 1
- CS202 - Coding in Python 2+
- Mobile Game Development
- Video Game & Simulation Design+
- Web Publishing +
- AP Computer Science Principles+
- AP Computer Science +
- Special Topics in Computer Science

### Marketing, Sales, and Service
- Introduction to Marketing+
- Advanced Marketing & Entrepreneurship +
- Retail Management – Student Store+

### Science, Technology, Engineering and Math (STEM)
- Introduction to Robotics
- Introduction to Engineering Design 1
- Introduction to Engineering Design 2+
- Principles of Engineering+
- Special Topics in Engineering

### Transportation
- Automotive Technology 1 *+
- Automotive Technology 2 *+

### Work Site Learning – Various Pathways

## POST-SECONDARY OPTIONS
- Colleges & Universities: 4-year degrees, Master’s, Ph.D.
- 2-year Colleges, Technical Colleges, & Industry-specific Schools: 2 & 4-year degrees, Certificate programs, Pre-apprenticeship programs
- Apprenticeships
- Internships
- Military

---

# Designates a 2-hour Satellite Program course
* Designates a 3-hour WANIC Skills Center course
+ Designates Pacific NW College Credit course
SYMBOLS AND EXPLANATIONS FOR CAREER AND TECHNICAL (CTE) PROGRAMS

**BSD Satellite Programs** are programs that focus on a specific career pathway and can lead towards immediate employability or students can continue their education at a local technical college, community college, or university. The courses are **two periods** in length during the school day. These programs are offered at specific high schools within Bellevue School District but are open to all students within the district. These courses provide college credit.

**Satellite Programs:** Nursery and Greenhouse Operations, Welding Technology, Construction Trades, Design and Fabrication, Radio Broadcasting, Media Production (Video Production), Sammamish Graphic Design and Production Studio, Teaching Academy 1 and 2, Automotive Technology 1-2 Hour, and Automotive Technology 2 – 2 Hour.

**WANIC Skill Centers** are programs that focus on a specific career pathway and can lead towards immediate employability or students can continue their education at a local technical college, community college, or university. These courses are **three periods** in length during the school day. These programs are offered at specific high schools within Bellevue School District but are available for all students within the district and outside of the district. These courses provide college credit.

**Skill Center Programs:** Culinary Arts, Advanced Culinary Arts, CISCO Networking Academy, Advanced CISCO – CCNP, Automotive Technology 1, Automotive Technology 2, Health Science Careers.

**Pacific NW College Credit** means that this course will provide college credit to Bellevue College, Cascadia Community College, Shoreline Community College, Edmonds Community College, Renton Community College or Lake Washington Institute of Technology depending on the course and the articulation agreement. Students pay a one-time fee of $50.00 for the opportunity to earn as many credits as they can during the school year. Students must maintain a “B” average in the class to earn the credits.

**Microsoft Imagine Academy** provides training and certification in many of the Microsoft products including Word, Excel, Access, Outlook and PowerPoint, as well as advanced topics including programming, Web development and database development. MSIA is a partnership between, Microsoft, CCI Learning, and Washington OSPI.

**Project Lead the Way** is a highly acclaimed program endorsed by many universities. During the summer, teachers receive special training in this curriculum written by university professors and professionals in the field of science, math, engineering, and technology.

**Project Lead the Way Courses:** Design and Production, Robotics, Flight and Space. *

*Available at the middle school level only.*
Do you enjoy working outdoors? Are you interested in protecting the environment? Do you have a green thumb? Then horticulture, the art, technology, business and science of plants, may be for you! This diverse career cluster includes many pathways such as agribusiness, environmental service systems, natural resource systems, plant systems, nursery/greenhouse operations and much more. These careers require time-management and organization skills, interpersonal skills, adaptability and tech-savviness. Check out the horticulture classes at the Interlake High School Horticulture Center!

Resources for more information: Careers for Green Thumbs Environmental Science.org Careertech.org Washington State OSPI LandscapeIndustryCareers.org Seedyourfuture.org

**CLASSES OFFERING PROFESSIONAL CERTIFICATIONS***

<table>
<thead>
<tr>
<th>Precision Exams – CTE Skill Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floral Design 1 &amp; 2</td>
</tr>
<tr>
<td>Introduction to Horticulture</td>
</tr>
<tr>
<td>Nursery and Greenhouse Operations</td>
</tr>
</tbody>
</table>

**SAMPLE PROFESSIONAL ORGANIZATIONS & LEADERSHIP CLUBS***

<table>
<thead>
<tr>
<th>FFA (Future Farmers of America): wwwffa.org</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interlake Green Team</td>
</tr>
<tr>
<td>Interlake Horticulture Plant Sales</td>
</tr>
</tbody>
</table>

**2016 – 2026 OCCUPATIONAL GROWTH FOR WASHINGTON STATE**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Growth Rate</th>
<th>Entry Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursery &amp; Greenhouse Manager</td>
<td>8%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Agricultural Inspector</td>
<td>12%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Soil &amp; Water Conservationist</td>
<td>8%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Landscape Specialist</td>
<td>28%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Aquaculture Manager</td>
<td>8%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Agricultural Engineer</td>
<td>9%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Soil &amp; Plant Scientist</td>
<td>10%</td>
<td>Bachelor’s</td>
</tr>
</tbody>
</table>

*May vary by school and/or program. Check with the teacher for specific details.  
**www.careeronestop.org
### HORTICULTURE CAREER PATHWAY EXAMPLES

<table>
<thead>
<tr>
<th>NURSERY MANAGER</th>
<th>FLORIST</th>
<th>ENTREPRENEUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Technology</td>
<td>Digital Technology</td>
<td>Digital Technology</td>
</tr>
<tr>
<td>Applied Engineering</td>
<td>Applied Engineering</td>
<td>Applied Engineering</td>
</tr>
<tr>
<td>Media Technology</td>
<td>Design and Production</td>
<td>Design and Production</td>
</tr>
<tr>
<td>Design and Production</td>
<td>Introduction to Marketing</td>
<td>Introduction to Marketing</td>
</tr>
<tr>
<td>Microsoft Office/Business Technology</td>
<td>Floral Design 1</td>
<td>Floral Design 1</td>
</tr>
<tr>
<td>Introduction to Marketing</td>
<td>Floral Design 2</td>
<td>Floral Design 2</td>
</tr>
<tr>
<td>Floral Design 1</td>
<td>Introduction to Horticulture</td>
<td>Introduction to Horticulture</td>
</tr>
<tr>
<td>Introduction to Horticulture</td>
<td>Environmental Sustainability</td>
<td>Environmental Sustainability</td>
</tr>
<tr>
<td>Environmental Sustainability</td>
<td>Nursery and Greenhouse Operations</td>
<td>Nursery and Greenhouse Operations</td>
</tr>
</tbody>
</table>

**Sample Career Pathway Schedule: Nursery Manager**

<table>
<thead>
<tr>
<th>PERIOD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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</thead>
<tbody>
<tr>
<td>GRADE</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
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<tr>
<td>LANGUAGE ARTS</td>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>SOCIAL STUDIES</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>SCIENCE</td>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>MATH</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td>Physical Education</td>
<td>Physical Education</td>
<td>Physical Education</td>
<td>World Language</td>
<td>Physical Education</td>
<td>Physical Education</td>
<td>Fine Arts</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td>Digital Technology</td>
<td>Health</td>
<td>Microsoft Office/Business Technology 1</td>
<td>Florals Design 1</td>
<td>Health</td>
<td>Introduction to Marketing</td>
<td>Fine Arts</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Sample Pathway College Credits**

- **LWIT = 12 college credits**
  - Introduction to Horticulture – HORT 299 = 2 credits (semester); 6 credits (1 year)
  - Nursery and Greenhouse Operations – HORT 299 = 6 credits

- **Bellevue College = 13 college credits**
  - Introduction to Marketing – MKTG 131 = 5 credits
  - Microsoft Office/Business Technology 1 – BTS 161, 147 = 8 credits

- **Shoreline Community College = 5 college credits**
  - Introduction to Marketing – BUS 120 = 5 credits

See the College Credit table for more information and available credits.

### Pacific NW College Credit Courses & Credits

- **Lake Washington Institute of Technology**
  - Introduction to Horticulture – HORT 299 = 6 credits (year); 2 credits (semester)
  - Nursery and Greenhouse Operations – HORT 299 = 6 credits – Year

- **Microsoft Office Specialist**
  - Word
  - PowerPoint
  - Excel

- **Precision Exams**
  - Floriculture
  - Greenhouse Management
  - Marketing

### Technical or Associate Degrees

- **Lake Washington Technical Institute**
  - Environmental Horticulture, AAS
  - Environmental Horticulture, Certificate of Proficiency

- **Edmonds Community College**
  - Horticulture – Landscape Design
  - Horticulture - Ornamental Horticulture
  - Horticulture – Sustainable Landscape Management

### Sample Occupations Related to This Pathway

- Agriculture Engineering
- Arborist
- Biological Scientists
- Botany
- Landscape Design
- Seed Grower
- Conservation Scientist
- Crop Scientist
- Environmental and Geoscientists
- Greenskeeper
- Horticulture Scientist
- Nursery Manager
- Ornamental Horticulture
- Soil and Plant Scientist
- Plus many more.....

*Updated December 2019*
Agricultural Education Courses

(All Agriculture classes are located at Interlake High School.)

INTRODUCTION TO HORTICULTURE
Other Info: Students can earn 2-6 college credits
This class is designed for students interested in the environment and the green industry. Through classroom learning, students will propagate and maintain plants for small-scale gardens and other urban spaces. Students will learn the fundamentals of plant growth; explore greenhouse growing, pruning, plant propagation and identification. Take an active stance on environmental change and contribute to improving it. Gain leadership and career skills through hands-on, individual and group projects. Learn about the business and career aspects of the horticulture industry by growing, planning, publicizing and staffing two yearly plant sales.

NURSERY AND GREENHOUSE OPERATIONS
Prerequisite: (Interlake High School students—Introduction to Horticulture, Floral Design, or teacher permission)
Other Info: 1.0 CTE and 1.0 Lab Science credit; Students can earn 6 college credits; Available to all BSD students
Students can begin or continue their study of horticulture and the green industry through extensive industry related experience. Students will maintain and operate state-of-the-art greenhouses as they extend their knowledge of the horticulture industry, plant production and sales through the student-run yearly plants sales. Students will develop the sales from the ground up by selecting plants, propagating, planning and managing the sales. Classes take extensive horticultural field trips, use community resources and develop projects that take an in-depth look at the horticulture industry. Students participate in maintaining the school arboretum and partner with the community to improve green spaces. Through hands-on learning, students will gain entry-level job skills and possible opportunities for summer work. Students will be prepared for further study in Environmental Science, Urban Forestry, Ecology, Green Environments, Horticulture and Landscape Architecture.

ENVIRONMENTAL SUSTAINABILITY
Students in Environmental Sustainability will investigate the complex relationships of the environment and learn how these connections are utilized in the growing field of Sustainable Agricultural. Through lab science and discussions on the implications of modern agriculture, students will explore the importance of sustainability in global ecological systems. Students will spend time learning about the interactions of plants and animals in the environment, and then apply this information to design sustainable agricultural systems. This course asks students how careers in Agriculture and Horticulture can be improved through sustainable practices.

FLORAL DESIGN 1
Other Info: CTE or Fine Arts credit
Express your artistic ability while experiencing the world of floriculture. This course includes theory, a blend of floral design, floral handling and retail marketing. Students will create arrangements for staff and students to purchase year-round in the floral shop. Topics studied will include floral identification, flower processing, principles and elements of art, developing customer estimates and designing a floral industry business. Students will experience the growing trends in floriculture from slow flowers to contemporary design while gaining entry-level experience in floral design.

FLORAL DESIGN 2
Other Info: CTE or Fine Arts credit
Enhance your basic skills acquired in Floral Design 1! You will expand your familiarity and execution of the principles, practices and techniques utilized in the floral design industry. Projects include creating large scale arrangements without the use of floral foam and designing a complete wedding suite. In Floral Design 2, you will manage and run the Interlake floral shop, as well as spend time job shadowing a professional in the floral industry. You will enhance and refine your skills, further your knowledge, and gain industry experience preparing you for employment or further education in the floral and horticulture industry.
ARCHITECTURE, MANUFACTURING & CONSTRUCTION

Architecture, construction and manufacturing jobs are all about, “I built that!” Do you aspire to design, plan, build or maintain structures? Are you interested in how things come together or the quality of materials and workmanship? Jobs in construction and manufacturing are about creativity and using your hands and your mind to produce and problem-solve. This industry is expected to grow on average by 10% with 7.2 million jobs by 2024. (www.bls.gov) If you are ready to embrace the journey from “job” to “craft,” start with these classes at Interlake High School!


CLASSES OFFERING PROFESSIONAL CERTIFICATIONS*

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA 10</td>
<td>Welding Technology, Design, &amp; Fabrication</td>
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<tr>
<td>Precision Exams – CTE Skill Certificate</td>
<td>Welding Technology, Design, &amp; Fabrication</td>
</tr>
<tr>
<td>WABO &amp; AWS</td>
<td>Welding Technology, Design, &amp; Fabrication</td>
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SAMPLE PROFESSIONAL ORGANIZATIONS & LEADERSHIP CLUBS*

<table>
<thead>
<tr>
<th>Club</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metals Club</td>
</tr>
<tr>
<td>Woods U</td>
</tr>
</tbody>
</table>

2016 – 2026 OCCUPATIONAL GROWTH FOR WASHINGTON STATE**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Growth Rate</th>
<th>Entry Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Worker</td>
<td>19%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Carpenter</td>
<td>18%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Sheet Metal Worker</td>
<td>18%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Welder</td>
<td>8%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Construction Manager</td>
<td>20%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Civil Engineer</td>
<td>5%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Architectural Drafter</td>
<td>7%</td>
<td>Associate’s</td>
</tr>
<tr>
<td>Building Inspector</td>
<td>10%</td>
<td>HS Diploma</td>
</tr>
</tbody>
</table>

*May vary by school and/or program. Check with the teacher for specific details.

**www.careeronestop.org
# CONSTRUCTION & WELDING CAREER PATHWAY EXAMPLES

<table>
<thead>
<tr>
<th>ENTRY LEVEL CONSTRUCTION</th>
<th>ENTRY LEVEL WELDING FABRICATION</th>
<th>CONSTRUCTION MANAGEMENT</th>
<th>ENTREPRENEUR</th>
<th>EXPLORATORY TRADES</th>
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</thead>
<tbody>
<tr>
<td>Design and Production</td>
<td>Design and Production</td>
<td>Design and Production</td>
<td>Design and Production</td>
<td>Design and Production</td>
</tr>
<tr>
<td>Robotics</td>
<td>Robotics</td>
<td>Robotics</td>
<td>Robotics</td>
<td>Robotics</td>
</tr>
<tr>
<td>Woods Technology 1 &amp; 2</td>
<td>Woods Technology 1 &amp; 2</td>
<td>Woods Technology 1 &amp; 2</td>
<td>Woods Technology 1 &amp; 2</td>
<td>Woods Technology 1 &amp; 2</td>
</tr>
<tr>
<td>Metals Technology 1 &amp; 2</td>
<td>Metals Technology 1 &amp; 2</td>
<td>Metals Technology 1 &amp; 2</td>
<td>Metals Technology 1 &amp; 2</td>
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<td>Construction Technology</td>
<td>Introduction to Construction</td>
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<td>Introduction to Construction</td>
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<tr>
<td></td>
<td>Management</td>
<td>Management</td>
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</table>

## Sample Career Pathway Schedule: Entry Level Welding Fabrication

<table>
<thead>
<tr>
<th>PERIOD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<tbody>
<tr>
<td>GRADE</td>
<td></td>
<td></td>
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<td></td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>LANGUAGE</td>
<td>ARTS</td>
<td>SOCIAL STUDIES</td>
<td>SCIENCE</td>
<td>MATH</td>
<td>ELECTIVE</td>
<td>ELECTIVE</td>
<td>ELECTIVE</td>
</tr>
<tr>
<td>6</td>
<td>x</td>
<td>x</td>
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<td>x</td>
<td>Physical Education</td>
<td>Digital Technology</td>
<td>Applied Engineering</td>
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<tr>
<td>7</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Health</td>
<td>Design and Production</td>
</tr>
<tr>
<td>8</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Flight &amp; Space</td>
<td>Robotics</td>
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<tr>
<td>9</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>World Language</td>
<td>Woods Technology 1</td>
<td>Woods Technology 2</td>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Health</td>
<td>Intro to Construction Management</td>
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<tr>
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<td>x</td>
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<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Metals Technology 1</td>
<td>Metals Technology 2</td>
</tr>
<tr>
<td>12</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Fine Arts</td>
<td>Welding Technology, Design and Fabrication</td>
<td></td>
</tr>
</tbody>
</table>

### Post Secondary

**Lake Washington Institute of Technology**

- **Welding Technology, Design and Fabrication – WELD 101 = 7 credits**
  - **OSHA 10**
  - **Precision Exams**
  - **WABO**
  - **AWS**

**Lake Washington Institute of Technology**

- **Welding Technology, AAS**
- **Aerospace/Manufacturing Gas Tungsten Arc Welding, Certificate of Proficiency**
- **Welding Introduction, Certificate of Proficiency**
- **Welding Technology, Certificate of Proficiency**
- **Bellingham Technical College**
- **Central Washington University**
- **Clark College**
- **Edmonds Community College**
- **Renton Technical College**
- **Shoreline Community College**
- **University of Washington**
- **Washington State University**

For more information: [Construction Management Programs](#) or [Welding Schools](#)

**Contractor/Business Owner**
- Building Inspector
- Foreman
- Woodworking Artist
- 1st Line Supervisor
- Architect
- Civil Engineer
- Journeyman/woman Carpenter
- Journeyman/woman Electrician
- Journeyman/woman Plumber
- Journeyman/woman Welder
- Aviation Welding Technician
- Plumber, Pipefitter, or Steamfitter
- Structural Metal Worker
- Welding Engineer
- Manufacturing Engineer
- Plus many more…

Updated December 2019
Architecture, Manufacturing & Construction Courses

(All classes are located at Interlake High School.)

METALS TECHNOLOGY 1
Other info: CTE or Fine Art credit
Students will learn how to use the tools, equipment and processes in metal machining, welding and fabrication. The student will learn basic metal working and develop attitudes and habits necessary for working safely and effectively in this environment. Students will also have the opportunity to explore and investigate career and occupational options. Metal sculpting is an important component of this course.

METALS TECHNOLOGY 2
Other info: CTE or Fine Art credit
The Metals Technology II student will build on skills they have developed by successfully completing the Metals Technology 1 class. Students will refine welding and metal machining skills. Welding processes will include, but are not limited to, Oxygen-Acetylene welding (OAW) and Metal-Inert Gas welding (MIG). Both ferrous and nonferrous metals such as brass, copper, aluminum and silicone bronze will be used for required machining and metal art sculpturing projects. Students will have the opportunity for individualized, extended learning projects as approved by the instructor.

WELDING TECHNOLOGY, DESIGN AND FABRICATION
Other Info: Students can earn 7 college credits; Available to all BSD students
Students will design, layout and fabricate projects using processes and procedures found in the metal-working industry. The individual and group projects are modeled after industrial welding operations and are worked on in a large, well-equipped classroom laboratory. Students receive instruction, practice and gain experience with: oxy/acetylene welding (OAW) and cutting; wire-feed welding (MIG); shielded metal arc welding (SMAW); tungsten inert gas welding (TIG); and plasma metal cutting. Metal sculpting and individualized projects are an important component of this course.

WOODS TECHNOLOGY 1
In Woods Technology 1, students will have the opportunity to work with their hands, learning the art of woodworking. Throughout the semester students will be able to make tangible projects that can be taken home while becoming skilled in operating tools and machinery safely. Additionally, the skills learned in Woods Technology 1 will serve as a solid foundation for an invaluable skillset to be used in Woods Technology 2, and Introduction to Construction Management.

WOODS TECHNOLOGY 2
Applying the skills learned in Woods Technology 1, students will be able to build upon techniques to produce high quality, individualized projects with the finest wood species. Students will utilize the CAD software, AutoDesk Inventor, to prototype and refine creations in three-dimensional models. Individualized projects focus skills on, but are not limited to, furniture making, and other projects seen in custom woodworking. Students will also develop leadership skills by working cooperatively with their peers in the class. New to the shop is a cutting-edge laser engraver that produces any design onto a variety of materials.

INTRODUCTION TO CONSTRUCTION MANAGEMENT
Other Info: This 1-hour class runs concurrently with Construction Technology
Construction Management, where a student prepares to become a professional. Students will learn and practice the processes used in building a house. Throughout the year, students will learn and do hands-on projects with wall construction and framing, residential wiring, finish carpentry, roofing, material selection, technical mathematics and blueprint reading. Students will gain the knowledge and skillset to successfully succeed in the rapidly changing work force and post-secondary education.

CONSTRUCTION TECHNOLOGY
Available to all BSD students
Prerequisites: None
Construction Technology is a new 2-hour course specifically designed to prepare students for the field of construction with a great deal of time devoted to hands-on projects. Students will learn and practice the processes used in building a house. Students will learn from hands-on experience with wall construction and framing, residential wiring, finish carpentry, roofing, material selection, technical mathematics and blueprint reading. Students will gain the knowledge and skillset to successfully succeed in this rapidly changing work force right after high school, as well as be prepared for post-secondary education in this field. Includes more lab time than the one-hour course.
Do you like applying your artistic side to solving problems? Do you see yourself designing, producing, performing, writing or publishing? Then a career in Arts, AV Technology or Communications may be for you! BSD offers 4 content areas in this career cluster:

**Radio, Television & Media Productions** – with 1,767 TV stations and 15,500+ radio stations in the U.S., there are many jobs in this field. *(FCC, Dec. 2017)*

**Graphic Design & Production** – if you have a passion for digital design and like working for yourself and/or out of your home, graphic design is the perfect career.

**Photography** – Washington State is 3rd for job growth in the photography field. *(LearnToBecome.org)*

**Technical Theater/Performing Arts** – openings in the theater, tv, & motion picture

**Resources for more information:**
- Communications-Major.com
- MyPlan.com
- Edward R. Murrow College of Communication
- Study.com
- Photography Degrees
- Learn How to Become
- College Board
- Vault.com
- American Theater

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**CLASSES OFFERING PROFESSIONAL CERTIFICATIONS**

<table>
<thead>
<tr>
<th>Certification</th>
<th>Programs Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACA – Adobe Certified Associate</td>
<td>Graphics Arts 1 &amp; 2, Computer Graphics 1 &amp; 2, Photography 1 &amp; 2, Digital Media Production, Advanced Digital Media Production</td>
</tr>
<tr>
<td>Precision Exams – CTE Skill Certificate</td>
<td>Digital Media Production, Advanced Digital Media Production, Photography 1 &amp; 2, Television Production</td>
</tr>
<tr>
<td>Certified Radio Operator - CRO</td>
<td>Radio &amp; Podcast Production</td>
</tr>
</tbody>
</table>

**SAMPLE PROFESSIONAL ORGANIZATIONS & LEADERSHIP CLUBS**

- TSA (Technology Student Association): [www.washingtontsa.org](http://www.washingtontsa.org)
- SkillsUSA: [www.skillsusa.org](http://www.skillsusa.org)
- WA State Thespians
- Multimedia, Film, Video, & Photography Clubs

**2016 – 2026 OCCUPATIONAL GROWTH FOR WASHINGTON STATE**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Growth Rate</th>
<th>Entry Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Engineer</td>
<td>31%</td>
<td>Certificate</td>
</tr>
<tr>
<td>Audio/Video Technicians</td>
<td>21%</td>
<td>Certificate</td>
</tr>
<tr>
<td>Camera Operators</td>
<td>4%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Film &amp; Video Editors</td>
<td>28%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Graphic Designer</td>
<td>23%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Commercial &amp; Industrial Designers</td>
<td>9%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Set &amp; Exhibit Designers</td>
<td>10%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Directors—Stage, Film, TV &amp; Radio</td>
<td>20%</td>
<td>Bachelor’s</td>
</tr>
</tbody>
</table>

*May vary by school and/or program. Check with the teacher for specific details.*

**Potential College Tuition Savings:** $323 – $2,475

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**ARTS, AV TECHNOLOGY & COMMUNICATION**

---

**College Credits**

**Available:** 3 – 23
# Arts, AV Technology & Communication Career Pathway Examples

<table>
<thead>
<tr>
<th>Broadcasting</th>
<th>Graphic Design</th>
<th>Media Production</th>
<th>Communications</th>
<th>Photography</th>
<th>Technical Theater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Office/Business Technology</td>
<td>Media Technology</td>
<td>Media Technology</td>
<td>Media Technology</td>
<td>Photography 1</td>
<td>Microsoft Office/Business Technology</td>
</tr>
<tr>
<td>Digital Media Production 2</td>
<td>Computer Graphics 2</td>
<td>Digital Media Production 1 and 2</td>
<td>Advanced Digital Media Production</td>
<td>Introduction to Marketing</td>
<td>Technical Theater 2</td>
</tr>
<tr>
<td>Radio and Podcast Production</td>
<td>Graphic Arts 1</td>
<td>Cinematography &amp; Cinema Production</td>
<td>Radio and Podcast Production</td>
<td>Television Broadcasting</td>
<td></td>
</tr>
<tr>
<td>Television Broadcasting</td>
<td>Graphic Arts 2</td>
<td>Video Production 1</td>
<td>Television Broadcasting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graphic Design &amp; Production Studio</td>
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</table>

## Sample Career Pathway Schedule: Media Production

<table>
<thead>
<tr>
<th>PERIOD</th>
<th>GRADE</th>
<th>LANGUAGE ARTS</th>
<th>SOCIAL STUDIES</th>
<th>SCIENCE</th>
<th>MATH</th>
<th>ELECTIVE</th>
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</thead>
<tbody>
<tr>
<td>6</td>
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<td>x</td>
<td>Physical Education</td>
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<td>7</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Health</td>
<td>CS Discoveries</td>
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<td>x</td>
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<td>Physical Education</td>
<td>Video Production 1</td>
<td>Video Production 2</td>
</tr>
<tr>
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<td>x</td>
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<td>x</td>
<td>World Language</td>
<td>Microsoft Office/Business Tech 1</td>
<td>Digital Media Production 1</td>
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<td>Physical Education</td>
<td>Health</td>
<td>Digital Media Production 2</td>
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<td>11</td>
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<td>x</td>
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<td>Physical Education</td>
<td>Radio &amp; Podcast Production</td>
<td>Television Broadcasting</td>
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<td>x</td>
<td>Fine Arts</td>
<td>Advanced Digital Media Production</td>
<td></td>
</tr>
</tbody>
</table>

## Sample Pathway College Credits

- **Bellevue College**: 10+ college credits
  - Digital Media Production 1 or 2; OR Television Broadcasting; OR Advanced Media Production – DMA 246 = 5 credits
  - Microsoft Office/Business Technology – BTS 161, 144, 210, 163, 165 = 5+ credits

See the College Credit table for more information and available credits.

## Pacific NW College Credit Courses & Credits

**Bellevue College**
- Computer Graphics 1 or 2; OR Graphic Arts 1 or 2; OR Graphic Design and Production Studio – DMA 103 = 5 credits
- Digital Media Production 1 AND 2 – DMA 246, 247 = 10 credits
- Digital Media Production 1 OR 2 Year long – DMA 246 = 5 credits
- Television Broadcasting – DMA 246 = 5 credits

**Lake Washington Institute of Technology**
- Computer Graphics 1 or 2; OR Graphic Arts 1 or 2; OR Graphic Design & Production Studio – DSGN 121, DSGN 122 = 8 credits
- Photography 1 or 2; OR AP Photography Portfolio/2-D Design – DSGN 128 = 4 credits
- Digital Media Production 1 – MMDP 119 = 5 credits

**Shoreline Community College**
- Digital Media Production 1 or 2; OR Advanced Digital Media Production
- FILM 256 = 5 credits
- Technical Theater (one year) -- DRAMA 207, 208, 209 = 6 credits
- Television Broadcasting – FILM 257 = 5 credits

## Adobe Certified Associate:*
- Photoshop
- Illustrator
- Premier Pro
- InDesign

## Microsoft Office Specialist or Expert:*
- Word Expert
- Excel
- Word Expert
- Excel
- PowerPoint Expert
- Outlook
- Access

## Precision Exam Skills Certification:*
- Video Production
- Television Broadcasting
- Digital Media Production

## CRO – Certified radio Operators

## Bellevue College:
- Associate of Arts Degree - Digital Media Arts
- Advanced Video Production Certificate

## Lake Washington Technical Institute:
- Digital Audio/Video Editing Certificate
- Digital Publishing Certificate
- Graphic Design Certificate
- Photography Certificate
- Video & Motion Graphics Certificate
- Digital Design, AAS-T

## North Seattle College:
- AAS - Communication, Business, Media

**Shoreline Community College**
- Associate of Arts Degree – Drama & Theater

## Technical or Associate Degrees

- Broadcast & Sound Engineer
- Radio/Video Equipment Technician
- Photographer
- Announcer/Broadcaster
- Radio Engineer
- Camera Operator
- Producer/Director
- Editor
- Digital Media Specialist
- Communications Director
- Graphic Designer
- Photojournalist
- Entrepreneur/Business Owner
- Industrial Designer
- Stage Manager
- Performing Arts Administrator
- Plus many more...

**Updated December 2019**
Arts, AV Technology & Communications Courses

RADIO AND PODCAST PRODUCTION
Location: Bellevue
Radio Broadcasting covers the ins and outs of working in a real radio station. Students learn how to run a radio station as they participate in the operation and management of KASB 89.9 FM, broadcasting from Bellevue High School. Students learn the art of audio recording, mixing and editing. The class is hands on, providing experience on professional audio equipment. This class prepares you for advanced college courses and/or work in the industry.

TELEVISION BROADCASTING
Location: Bellevue
This class produces the morning bulletin WakeUp! using a professional news studio. Students produce and broadcast a weekly school newscast. The course also covers on-screen and vocal presentation. The class is hands on, providing experience on professional audio and studio video equipment and prepares you for advanced college courses and/or work in the industry.

DIGITAL MEDIA PRODUCTION 1
Other Info: CTE or Fine Art credit (varies by school)
Are you ready for the world of Video Production? The Digital Video & Audio course is an exciting introduction into the world of video editing, filming, script writing and studio production. Students learn the various ins and outs of the media industry. Commercial television and film production are all included. Using state-of-the-art equipment, DVA students will learn to produce commercials, public service announcements, music videos, and news stories. In addition, students will learn the production process, including concept brainstorming, storyboarding, filming, and video editing. Students may obtain their Adobe Certification in the Adobe CC products such as Premiere Pro and After Effects.

DIGITAL MEDIA PRODUCTION 2
Other Info: CTE or Fine Art credit (varies by school)
Take the next step into the exciting world of multi-media with cutting edge technology making movies and recording audio. DVA 2 students will work individually and on teams producing video projects such as mini-documentaries and short films to enter in film festivals, and other projects for student activities, sports, special community events, and non-profit organizations. Additionally, students will write and produce a short movie, animated video or music recording. Students may obtain their Adobe Certification in the Adobe CC products such as Premiere Pro and After Effects.

ADVANCED DIGITAL MEDIA PRODUCTION
Location: Bellevue and Newport - Available to all BSD students
Are you interested in learning about television production, making movies, and professional videos? Media Production covers professional video and film production. Students work in a modern video and film post-production facility with industry standard equipment. Students get hands on experience planning, writing, directing, shooting, editing and producing videos. Students will have access to digital cameras, DSLRs, audio & lighting equipment. Students will produce films that will be entered in area film festivals. Students explore career opportunities through field trips to local studios. Students will get to interact with industry professionals through classroom visits and film festival seminars/career days. This class prepares students for advanced college courses and/or work in the industry. Students will also take part in producing a student produced bi-weekly morning announcement program. Students are able to obtain their Adobe Certification in the Adobe CC products such as Premiere Pro and After Effects.

CINEMATOGRAPHY & CINEMA PRODUCTION
Location: Newport
This class takes an in-depth study of the nature of film as a powerful medium of communication, entertainment and as an art form. This course is divided into three compulsory sections: textual analysis, film theory and history, and creative process. Through a textual analysis of films and a study of film history, students will enhance the development of their creative, analytic and production skills. Students will create various short film projects in the different genres, film styles and techniques. Students will also develop oral presentation skills by critically analyzing film passages and short films.

GRAPHIC ARTS 1
Location: Sammamish;
Other Info: CTE or Fine Art credit
Students learn a variety of methods used in the visual communications field: graphic design, computer graphics, vinyl sign cutting, offset printing, screen process printing, laser engraving and digital printing. These skills are developed through a series of student-designed projects completed with state-of-the-art equipment and the most current software. Students learn not only the graphic design process but also go through the steps in order to create final products. Projects include: business cards, greeting cards, T-shirts, posters and others. (This class may be used as either a Fine Arts credit or an Occupational Education requirement.)
GRAPHIC ARTS 2  
Location: Sammamish  
Other Info: CTE or Fine Art credit  
Students will continue with their skill development introduced in Graphic Arts 1. This course will allow them to study more in-depth topics with an emphasis on color image reproduction. Students will work wide format digital printing, laser engraving, and heat transfers. This course requires significant individual work and emphasizes higher-level problem-solving skills.

GRAPHIC DESIGN AND PRODUCTION STUDIO  
Location: Sammamish - Available to all BSD students  
Other Info: 1.0 CTE credit and 1.0 Fine Art credit  
If you are interested in running your own business or in the field of Graphic Arts, this might be the class for you. This class is designed to provide students who are either seeking entry-level employment or post-secondary training with the skills needed to enter the field of graphic arts. Graphic Design and Production Studio is run as an actual graphics business including offset printing, electronic pre-press, screen-printing, sign making and digital printing. Students are responsible for all aspects of this business including customer relations, inventory and quality control, and time management. Class members have the opportunity to participate in SkillsUSA, a national student organization that provides the opportunity to develop additional leadership skills and to enter competitions with other graphics students from around the state and country. Students are also able to obtain Adobe Certification in Adobe CC products such as Photoshop and Illustrator.

COMPUTER GRAPHICS 1  
Location: Bellevue, Interlake, Sammamish  
Other Info: CTE or Fine Art credit  
Students not only work with the software most commonly found in the Graphic Arts industry, they also learn the major aspects of graphic design including design principles, product and packaging design, branding and other aspects of graphic design. The course will also focus on electronic image manipulation, page layout and web page design. Students will learn how to create some of the assets that are found in web pages. The software used in the class, including Adobe’s Photoshop, InDesign, Illustrator, After Effects, and Acrobat Pro meet current industry standards. Introduction to Graphics and/or familiarity with computer operation is recommend. Students are able to obtain Adobe Certification in Adobe CC products such as Photoshop, Illustrator, and InDesign.

COMPUTER GRAPHICS 2  
Location: Bellevue, Interlake, Sammamish  
Other Info: CTE or Fine Art credit  
Students further their skill development from Computer Graphics 1 through a series of independent projects using the most current software. Programs used in this class may include vector-image software such as Illustrator, raster-image software such as Photoshop, and animation software such as Flash. This may vary from school to school and student to student. Students at Sammamish will also be exposed to much more sophisticated methods of image reproduction and asset management including dye sublimation, digital printing, and laser engraving. Students are able to obtain Adobe Certification in Adobe CC products such as Photoshop, Illustrator, and InDesign.

PHOTOGRAPHY 1  
Other Info: CTE or Fine Art credit  
Students learn to capture and compose images with a camera and to develop compositional skills with a photographic eye. Students will also learn the history and development of photographic technology while exploring its importance in journalism, advertising, fine art, and commercial applications for possible career choices. The emphasis will be on digital photography. Postproduction including Photoshop will also be a major focus of the class.

PHOTOGRAPHY 2  
Other Info: CTE or Fine Art credit  
Under guidance of the instructor the advanced student of photography will extend and refine the skills and techniques introduced in Photography, including creating and manipulating digital images in Photoshop. Advanced photography students will develop their portfolio in breadth (variety of photographic approaches) or concentration (theme for a body of work) as part of this class. Portfolio development is applicable for the student’s future AP 2-D Design Portfolio.

AP PHOTOGRAPHY PORTFOLIO/2-D DESIGN  
Other Info: CTE or Fine Art credit  
In this two-semester course, AP Photography students will work on a 2-D Design Portfolio as defined by the Advanced Placement Studio Art criteria. The 2D Design Portfolio includes (but is not limited to): graphic design, typography, digital imaging, collage & photography. Students will continue their advanced exploration of photography, including camera work and digital editing.
TECHNICAL THEATRE 1
Other Info: CTE of Fine Art credit; May be repeated for credit
Students will concentrate on the major areas of theatre technology, production and performance. Students will learn how to research and design sets and scenery, design lights and sound and learn about the roles of Stage Manager, Production Manager and House Manager. Students will learn about all areas of technical theatre and specialize in one or two areas. Some afternoon and evening work is required in addition to in-class production work. Behind the scenes stage experience will be acquired through the production of 2-3 shows during the year. Students who complete the course can pass an operations test with the district and can become employed by the district to work in the Performing Arts Centers.

TECHNICAL THEATRE 2
Location: Newport, Sammamish
Prerequisite: Technical Theater 1
Other Info: CTE or Fine Art credit; May be repeated for credit
Students will concentrate on the major areas of theatre technology and production. Students will explore advanced set design and construction techniques, the creative process involved in translating a script into a visual design, and the essentials of developing costumes, props, lighting and sound designs. All students will acquire behind-the-scenes stage experience through the production of 2-3 shows during the year. Students who complete the course can pass an operations test with the district and can become employed by the district to work in the Performing Arts Centers.

COSTUME DESIGN
Location: Sammamish
Prerequisite: Technical Theater 1
Costume Design is a course that prepares individuals to design, select, or build costumes for characters in Sammamish High School’s theatre productions. Costumers will serve as part of a production team. This course includes instruction in costume design, script analysis, period styles, history of costume, stage hair and makeup, drawing and sketching, cost estimation and budget compliance, and sewing construction.
Business Management, Administration and Marketing classes prepare students for diverse post-secondary education, training, and careers in all industries. Undergraduate degrees in business are still the #1 major at 19% of all degrees earned. (nces.ed.gov) Business education prepares you to pursue not just your interests in a specific career, but helps you advance both in salary and position. The skills you learn can be applied in any job, in any field!

BSD offers 16 business, marketing and management classes including AP and IB. If you have ever thought about owning your own business, supervising others, or being in a management position, find out what makes industry and our economy tick. Sign up for a business class today!!

Resources for more information: Learning About Business Niche MyCollegeGuide.com Thoughtco.com Poets & Quants for Undergrads

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<thead>
<tr>
<th>CLASSES OFFERING PROFESSIONAL CERTIFICATIONS*</th>
<th>SAMPLE PROFESSIONAL ORGANIZATIONS &amp; LEADERSHIP CLUBS*</th>
<th>2016 – 2026 OCCUPATIONAL GROWTH FOR WASHINGTON STATE**</th>
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*May vary by school and/or program. Check with the teacher for specific details.

**www.careeronestop.org
### Sample Career Pathway Schedule: Entrepreneurship

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<tr>
<td>Physical Education</td>
<td>Digital Technology</td>
<td>Media Technology</td>
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<td>Physical Education</td>
<td>Health</td>
<td>CS Discoveries</td>
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<td>Accounting 1</td>
<td>CS102 – Coding in Python</td>
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<td>Physical Education</td>
<td>Accounting 2</td>
<td>CS101 – Coding in Python</td>
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<td>Physical Education</td>
<td>Accounting 3</td>
<td>CS102 – Coding in Python</td>
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<td>Physical Education</td>
<td>Accounting 4</td>
<td>CS101 – Coding in Python</td>
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<tr>
<td>Fine Arts</td>
<td>Introduction to Marketing</td>
<td>Economics</td>
</tr>
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</table>

### POST SECONDARY

<table>
<thead>
<tr>
<th>PACIFIC NW COLLEGE CREDIT COURSES AND CREDITS</th>
<th>SAMPLE PATHWAY PROFESSIONAL CERTIFICATIONS</th>
<th>TECHNICAL OR ASSOCIATE DEGREES</th>
<th>SAMPLE OCCUPATIONS RELATED TO THIS PATHWAY</th>
</tr>
</thead>
</table>
| Bellevue College: Accounting 1 & 2 – ACCT 101 & ACCT 135 = 8 credits | Microsoft Office Specialist or Expert:  
- Word  
- Word Expert  
- Excel  
- Excel Expert  
- PowerPoint  
- Access  
- Outlook | Bellevue College:  
- Bachelor of Applied Science Degree in Applied Accounting  
- Associate in Business  
- Marketing Management | Entrepreneur  
Accounting Clerk  
Bookkeeper  
Corporate Accountant  
Forensic Accountant  
Accounting Director  
Accounting Supervisor  
Internal/External Auditor  
Financial Analyst |
| Accounting 3 & 4 – ACCT 225 = 5 credits | Precision Exam Skills Certification:  
- Accounting  
- Business Law  
- Economics  
- Entrepreneurship  
- Marketing  
- Personal Finance  
- Retailing - School Store | Bellevue College Certificate of Achievement:  
- Accounting Assistant  
- Accounting Information Systems  
- Accounting Preparation  
- Administrative Assistant  
- Bookkeeping  
- Plus more… | Strategic Program Planning Advisor  
Chief Accounting Officer  
Controller  
Director of Financial Operations  
Marketing Manager  
Promotions Manager  
Sales and Advertising Manager  
Web Marketing Manager  
Plus many more… |
| Adv. Marketing and Entrepreneurship – MKTG 299 = 5 credits | | | |
ACCOUNTING 1
Students will be introduced to one of the fastest-growing professions in the United States, which includes a formal system of financial-record management for proprietorships and partnerships. Students will also study accounting vocabulary, the relationship between accounting and business, and the accounting cycle for service business organized as proprietorship. QuickBooks accounting software will be used to enter transactions and create financial reports. A business simulation is used at the end of the semester to aid students in synthesizing and applying their learning.

ACCOUNTING 2
In Accounting 2, students will gain experience dealing with specialized accounting applications: special journals, petty cash system, taxes, depreciation, managerial decisions, and interest. Corporate accounting will be introduced. Students will use QuickBooks to complete many accounting problems. They will manually calculate a payroll problem and utilize a computer program to verify the result. Computerized business simulations are used to provide practical experience in handling retail business records. (Students must complete Accounting 1 and 2 to earn college credit with a "B" or better.)

ACCOUNTING 3
Location: Bellevue, Newport
This course will provide the student with more experience in dealing with advanced problems and procedures in accounting, extensively utilizing the computer. The student will extend the skills learned in Accounting 1 and 2, then continue to gain experience in partnership and departmentalized accounting. A problem-solving approach will be used for unique applications. Intensive investigation of career opportunities will be offered. Automated business simulations will be used to provide practical experience handling corporate records. If time allows, students have the opportunity to take the Microsoft Excel Core and Expert exam.

ACCOUNTING 4
Location: Bellevue, Newport
The principal focus for this course will be on corporate accounting, cost accounting, accounting for uncollectible accounts, depreciation, prepaid and accrued items, budgetary planning and control, and automated accounting applications. The student will analyze and prepare financial statements as a resource for management decisions. If time allows, students have the opportunity to take the Microsoft Excel Core and Expert exam. (Students must complete Accounting 3 and 4 to earn college credit with a "B" or better.)

ENTREPRENEURSHIP
Location: Sammamish, Interlake, Bellevue
This course is for anyone who is considering owning and operating their own business. Owning your own business can be risky but also very rewarding. The course will include all aspects of beginning a business. Funding, operating, managing and marketing will be included. The course will be project based in which students will be required to produce a viable business plan that will be evaluated by business people in the community. If you want to “live the American dream-and be your own boss” entrepreneurship is for you.

PERSONAL FINANCE
This class teaches students to manage their personal finances in the context of current economic conditions. Students will increase their financial and economic literacy while learning about vital topics such as preparing for the job market, the economy, taxes and tax forms, consumer rights and responsibilities, budgeting, banking, insurance, credit and credit cards, and investing. This class will help prepare students for financial decisions in college and beyond.

ECONOMICS
Other Info: CTE or social studies credit
New this year! Students will study the laws of supply and demand and why people and societies make economic choices. Students will examine macroeconomic and microeconomic principles in order to understand the fundamentals of the American and global economic systems. Students will examine components of the American economy such as price, competition, business and banking institutions. The course will also examine issues related to the economy such as employment and labor issues, the role of the government in the economy and selected topics on global economics.

AP MICRO ECONOMICS/AP MACRO ECONOMICS
Location: Sammamish, Bellevue
Students will build on their basic understanding of economic principles by investigating crucial social issues that are the basis of both microeconomics and macroeconomics. This will involve developing an understanding of the economic choices made by individual households and firms as they seek to maximize their well-being. It will also entail assessing the measurement of the performance of the American economy, evaluating potential policy tools such as taxes, government spending and interest rates, and understanding the role of the US in the global economy.
BUSINESS LAW
Location: Bellevue, Newport
Business Law is geared toward learning to live in our legal environment. This course will also benefit students considering careers in business, law, or management. Topics included in this class: legal liability, rights, the judicial system, careers in law, contracts, warranties, consumer protection, landlord-tenant relations, personal injuries, and criminal procedure. Students may have the opportunity to participate in a mock trial competition.

MICROSOFT OFFICE/BUSINESS TECHNOLOGY 1
This Microsoft IT Academy course is designed to teach students fundamental concepts, terms and functions of Microsoft Office and other commonly used business technologies. Students will be given the opportunity to take the Microsoft Certification exams in Core for Word, Excel, PowerPoint, Access and Outlook. This course will include many authentic application problems that the students will solve by applying their newly learned computer skills. Microsoft Word skills include creating letters, reports, newsletters and flyers using various embedded graphics and word processing formats. Students will learn how to create a professional business resume and cover letter. Students will use various themes and styles to enhance the appearance of their documents. Microsoft Excel skills include creating worksheets that use formulas and functions to solve authentic application problems. Students will use graphs, styles and themes to display information in a professional manner. Microsoft PowerPoint skills include creating presentations that display information using graphics, charts, transitions and animations and sound.

MICROSOFT OFFICE/BUSINESS TECHNOLOGY 2
Location: Bellevue, Newport
This course will continue students’ knowledge of software applications taught in Microsoft Office IT Academy. Students will continue to have the opportunity to take the MOS certification exams in Word, Excel, Outlook, PowerPoint and Access at the Expert/Mastery level for college credit.

IB BUSINESS AND MANAGEMENT SL
Location: Interlake
This business and management course aims to help students understand the implications of business activity in a global market. Students gain an international perspective of business and appreciation of cultural diversity through topics like business organization and environments, accounts and finance, international marketing, human resources management, growth and operations management. The course encourages the appreciation of ethical concerns and issues of social responsibility in the global business environment.

IB BUSINESS AND MANAGEMENT HL
Location: Interlake
This advanced business and management class allows for student to gain depth of knowledge in business skills. Students will study business organization and environments, accounts and finance, human resources, business operations, marketing and business strategy. Advanced students will also benefit from management and leadership training as well as a primary research-based project.

INTRODUCTION TO MARKETING
Location: Bellevue, Newport, Sammamish
Students will be introduced to business practices with an emphasis on day-to-day operations. Topics include: business concepts, psychology and sociology of marketing and promotion, human relations, sales and advertising. DECA is the national association for business and marketing students. As a member of DECA students will have the opportunity to attend conferences, compete and travel. Through DECA students may earn scholarships and gain state and national recognition.

ADVANCED MARKETING & ENTREPRENEURSHIP
Location: Bellevue, Newport, Sammamish
This class provides a more in-depth study of topics introduced in the Marketing and Business class. New topics are introduced including: basic economics; business and marketing research; operations and human relations. DECA is a major part of this class and projects developed will be used in DECA competitions.

RETAIL MANAGEMENT – STUDENT STORE
Prerequisite: Introduction to Marketing; No prerequisite at Interlake
Students will learn how to run a small business by operating the student store. Students will take the role of employees and managers and will be responsible for all aspects of store operation, including staffing, supervision, store maintenance, cash register and money handling procedures, customer service, purchasing, and inventory management and accounting. DECA is a part of this class and skills developed can be used in DECA competition.
Healthcare occupations are expected to grow 18% by 2026 with 2.3 million new jobs, more than any other occupational group. ([www.bls.gov](http://www.bls.gov)) The workplace in this pathway varies from medical offices to laboratories to even cruise ships. Often thought of as just nursing, this pathway includes biotechnology research, therapeutic services, transcriptionists, doctors, health administrators, and so much more. Pass your industry certification in Biotechnology and work as a lab assistant. Train as a Nursing Assistant in an internship and sit for your Certified Nursing Assistant Certification exam. Since the CNA is required in all nursing programs, getting it in high school will save you time and money in college. Begin your journey into the broad pathway of healthcare today!


<table>
<thead>
<tr>
<th>CLASSES OFFERING PROFESSIONAL CERTIFICATIONS*</th>
<th>SAMPLE PROFESSIONAL ORGANIZATIONS &amp; LEADERSHIP CLUBS*</th>
<th>2016 – 2026 OCCUPATIONAL GROWTH FOR WASHINGTON STATE**</th>
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<tbody>
<tr>
<td>Certified Nursing Assistant Certificate</td>
<td>Health Science Careers</td>
<td>Occupation</td>
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<td>American Red Cross Professional Rescue CPR/First Aid</td>
<td>Introduction to Health Care Health Science Careers</td>
<td>Certified Nursing Assistant</td>
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<td>Precision Exams -- CTE Skill Certificate</td>
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*May vary by school and/or program. Check with the teacher for specific details.

**[www.careeronestop.org](http://www.careeronestop.org)
# HEALTH SCIENCES CAREER PATHWAY EXAMPLES

<table>
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<th>CERTIFIED NURSING ASSISTANT</th>
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<td>Microsoft Office/Business Technology 1 &amp; 2</td>
<td>Robotics</td>
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<tr>
<td>Anatomy and Physiology</td>
<td>Anatomy and Physiology</td>
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<td>Introduction to Health Care</td>
<td>Biotechnology</td>
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<td>Public Health and Global Awareness</td>
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<td>Health Science Careers</td>
<td>Global Health and Public Awareness</td>
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**Sample Career Pathway Schedule:** Certified Nursing Assistant

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**Sample Pathway College Credit**

| Bellevue College = 53 college credits | Anatomy & Physiology – AHE 130 = 5 credits |
|                                       | Health Science Careers – NAC 106, 107, 108, 110, 120, 130 = 22 credits |
|                                       | Microsoft Office/Business Technology 1 & 2 – BTS 161, BTS 147, BTS 144, BTS 168, BTS 210, BTS 165, BTS 163 = 31 credits |
| Lake Washington Technical Institute = 13 college credits | Health Science Careers – IFAD 162, IFAD 216, NURS 107, NURS 108, NURS 109 = 13 credits |

See the College Credit table for more information and available credits.

---

**Post Secondary**

<table>
<thead>
<tr>
<th>PACIFIC NW COLLEGE CREDIT COURSES &amp; CREDITS</th>
<th>SAMPLE PATHWAY PROFESSIONAL CERTIFICATIONS</th>
<th>TECHNICAL OR ASSOCIATE DEGREES</th>
<th>SAMPLE OCCUPATIONS RELATED TO THIS PATHWAY</th>
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<tbody>
<tr>
<td>Bellevue College</td>
<td>American Red Cross Basic Life Support for Health Care Workers</td>
<td>Bellevue College:</td>
<td>Certified Nursing Assistant</td>
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<tr>
<td>Anatomy and Physiology – AHE 130 = 5 credits</td>
<td>American Red Cross Adult/AED/First Aid</td>
<td>• Nursing Assistant, Certified</td>
<td>Charge Nurse Critical – Labor and Delivery</td>
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<tr>
<td>Health Science – NAC 106, 107, 108, 110, 120, 130 = 22 credits</td>
<td>CNA – Certified Nursing Assistant Certificate</td>
<td>• Associate Degree in Nursing</td>
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<td>Lake Washington Technical College</td>
<td>Microsoft Office Specialist</td>
<td>• RN to BSN</td>
<td>Clinical Nurse Manager</td>
</tr>
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<td>Health Science – IFAD 162, 216, NURS 107, NURS 108, NURS 109 = 13 credits</td>
<td>Word</td>
<td>• Nursing Assistant Advising</td>
<td>Pediatric Nurse</td>
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<td>Shoreline Community College</td>
<td>Word Expert</td>
<td>• Healthcare Manager</td>
<td>Director of Nursing Services</td>
</tr>
<tr>
<td>Biotechnology – Biology 107 = 5 credits</td>
<td>PowerPoint</td>
<td>(Plus many more programs.)</td>
<td>Emergency Room Nurse</td>
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<td></td>
<td>Excel</td>
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<td>Health Facilities Surveyor</td>
</tr>
<tr>
<td></td>
<td>Excel Expert</td>
<td></td>
<td>Home Health Nurse</td>
</tr>
<tr>
<td></td>
<td>Outlook</td>
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<td>Hospice Nurse</td>
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<tr>
<td></td>
<td>Precision Exams</td>
<td></td>
<td>Healthcare Manager</td>
</tr>
<tr>
<td></td>
<td>• Anatomy &amp; Physiology</td>
<td></td>
<td>Intensive Care Nurse</td>
</tr>
<tr>
<td></td>
<td>• Biotechnology</td>
<td></td>
<td>Nurse Practitioner</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Physician’s Assistant</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Biochemist</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bioinformatics</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Biomedical Engineer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Plus many more…..</td>
</tr>
</tbody>
</table>

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Updated December 2019
**PUBLIC HEALTH AND GLOBAL AWARENESS**  
*Location: Bellevue*  
*Other Info: 11th or 12th grade*  
This course provides a general introduction to the multidisciplinary field of public health. This will include public health concepts with an emphasis on principles and tools for population health, disease prevention, health professions and healthcare systems, and public health professions and systems. This course also introduces students to important topics in global health such as the global burden and distribution of disease and mortality, the underlying determinants of health disparities and inequalities, and how society and culture influence health and illness.

**INTRODUCTION TO HEALTH CARE**  
*Location: Sammamish, Bellevue*  
Interested in a career in the health care industry? If so, this course is for you! Study the history of health care and explore different careers. Become familiar with anatomy and physiology, disease processes and hand-on health care skills like handwashing and body mechanics. An introduction to vital signs and anatomy and physiology will also be included. You will also have the opportunity to receive an American Red Cross CPR and First Aid Card.

**HEALTH SCIENCE CAREERS**  
*Length/Credit: 1 year - three periods - 3.0 CTE Credits*  
*Other Info: .5 Health, 1.0 Science Lab, and 1.5 Occupational Education credit for WANIC Skill Center course*  
*Other Info: Students completing coursework are eligible for Nursing Assistant Certification*  
*Requirements: Students must pass a background check to participate in the required clinicals, provide records of childhood immunizations, have a TB Test completed, and hold a social security card for testing. A social security card is not required to participate in the class but is required in order to take the Certified Nursing Assistant exam which is a state exam.*  
*Location: Sammamish - WANIC Skills Center (Available to all schools.)*  
This is a 3-period Skill Center class (3 high school credits). This intensive course of study introduces students to a variety of careers in the health care industry with emphasis on hands-on, patient-oriented skills training for those interested in becoming nurses, physicians, and other therapists. Learn about a variety of health care topics, procedures and careers in patient care, earn certification in CPR/First Aid, and attend clinical internships in health care facilities. At the end of the year, students who successfully complete course requirements for Nursing Assistant Certified (NAC) qualify to take the Washington National Nurse Aid Exam. Those who pass the exam can apply for certification and seek entry level employment as a nursing assistant. The rigor required for success in this class plus college credits earned allow students to immediately enter employment in the health care industry and/or to continue their post-secondary education. High school credits earned: CTE (1.5) Lab Science (1.0) Health (0.5) Program fees may apply. Financial assistance may be available for qualifying students. NOTE: Block schedules affect actual class times daily.

**ANATOMY AND PHYSIOLOGY**  
*Location: Bellevue*  
*Other Info: CTE or Science Elective credit*  
In this introductory human anatomy and physiology course, students investigate the intricate machinery that makes the body work, relating the functional anatomy and physical geography of organs and organ systems to the physiological functions which they perform. Students will also explore the delicate web of interaction among body systems, the importance of maintaining homeostatic balance within this web, and the medical implications of disturbing this balance. Students may have the opportunity to participate in HOSA.

**BIOTECHNOLOGY**  
*Location: Newport, Bellevue, Sammamish*  
*Prerequisites: Biology, Chemistry*  
*Other Info: CTE or Lab Science credit*  
Biotechnology is a course designed to give students a comprehensive introduction to the scientific concepts and laboratory research techniques currently used in the field of biotechnology. Students attain knowledge about the field of biotechnology and deeper understanding of the biological concepts used. In addition, students develop the laboratory, critical thinking, and communication skills currently used in the biotechnology industry. Furthermore, students will explore and evaluate career opportunities in the field of biotechnology through extensive readings, laboratory experiments, class discussions, research projects, guest speakers, and workplace visits. The objectives covered in this course are both academic and technical in nature and are presented in a progressively rigorous manner.
If you have a passion for food, like a fast-paced environment, and have an excellent work ethic, then a culinary arts occupation may be the right choice for you. The largest employer in the U.S. is the restaurant industry and it is expected to grow faster than the national average by 2026. (www.bls.gov) This industry has a broad spectrum of career opportunities ranging from chef to bed & breakfast owner to nutritionist. If you love watching cooking shows and celebrate “I Love Food” day every September 9, check out these classes!

Resources for more information:
Institute of Culinary Education
mycollegeguide.org
Washington Hospitality Association
Culinary Institute of America
National Restaurant Association
Gecko Hospitality
www.culinaryschools.org

<table>
<thead>
<tr>
<th>CLASSES OFFERING PROFESSIONAL CERTIFICATIONS*</th>
<th>SAMPLE PROFESSIONAL ORGANIZATIONS &amp; LEADERSHIP CLUBS*</th>
<th>2016 – 2026 OCCUPATIONAL GROWTH FOR WASHINGTON STATE**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food Handler’s Permit</td>
<td>Culinary Arts</td>
<td>Head Chef</td>
</tr>
<tr>
<td>ServSafe</td>
<td>Advanced Culinary Arts</td>
<td>Restaurant Manager</td>
</tr>
<tr>
<td>National Restaurant Association - Food Manager</td>
<td><a href="http://www.fcclainc.org">www.fcclainc.org</a></td>
<td>Line Cook</td>
</tr>
<tr>
<td>Precision Exam</td>
<td>Advanced Culinary Arts</td>
<td>Nutritionist</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td><a href="http://www.prostart.org">ProStart</a></td>
<td>Food Scientist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Food Quality Analyst</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Event Planner</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hospitality Manager</td>
</tr>
</tbody>
</table>

*May vary by school and/or program. Check with the teacher for specific details.

**[www.careeronestop.org](http://www.careeronestop.org)
## HOSPITALITY CAREER PATHWAY EXAMPLES

<table>
<thead>
<tr>
<th>Chef</th>
<th>Restaurant Manager</th>
<th>Culinary Caterer/Event Planner</th>
<th>Entrepreneur</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Technology</td>
<td>Digital Technology</td>
<td>Digital Technology</td>
<td>Digital Technology</td>
</tr>
<tr>
<td>Media Technology</td>
<td>Media Technology</td>
<td>Media Technology</td>
<td>CS Discoveries</td>
</tr>
<tr>
<td>Culinary Essentials 1</td>
<td>Microsoft Office/Business Technology 1</td>
<td>Microsoft Office/Business Technology 1</td>
<td>Media Technology</td>
</tr>
<tr>
<td>Culinary Essentials 2</td>
<td>Business Law</td>
<td>Accounting 1</td>
<td>Business Law</td>
</tr>
<tr>
<td>Accounting 1</td>
<td>Accounting 1</td>
<td>Accounting 2</td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>Accounting 2</td>
<td>Accounting 2</td>
<td>Bakery and Pastry 1</td>
<td>Accounting 1 &amp; 2</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td>Culinary Arts</td>
<td>Culinary Arts</td>
<td>Bakery and Pastry 1</td>
</tr>
<tr>
<td>Advanced Culinary Arts</td>
<td>Advanced Culinary Arts</td>
<td>Advanced Culinary Arts</td>
<td>Culinary Arts</td>
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</table>

### Sample Career Pathway Schedule: Chef

<table>
<thead>
<tr>
<th>PERIOD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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</thead>
<tbody>
<tr>
<td>GRADE</td>
<td>LANGUAGE ARTS</td>
<td>SOCIAL STUDIES</td>
<td>SCIENCE</td>
<td>PHYSICAL EDUCATION</td>
<td>ELECTIVE</td>
<td>ELECTIVE</td>
<td>ELECTIVE</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Digital Technology</td>
<td>Video Technology 1</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Health</td>
<td>Video Technology 2</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>CS Discoveries</td>
<td>Media Technology</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>World Language</td>
<td>Accounting 1</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Culinary Essentials 1</td>
<td>Accounting 2</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Culinary Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Fine Arts</td>
<td>Advanced Culinary Arts</td>
<td></td>
</tr>
</tbody>
</table>

### Pacific NW College Credit Courses & Credits

- **Lake Washington Technical College**
  - Culinary Arts (One Year) – CULA 116 = 9 credits
  - Advanced Culinary Arts – CULA 128, 130, 142 = 9 credits

- **Renton Technical College**
  - Culinary Arts (One Year) – CUL102, CUL114, CUL118, CUL119, CUL121 = 16 Credits

### Technical or Associate Degrees

- **Lake Washington Technical Institute**
  - Culinary Arts, AAS
  - Culinary Arts, Certificate of Proficiency
  - Baking Arts

- **Renton Technical College**
  - Culinary Arts, AAS, Certificate of Completion
  - Professional Baking, AAS, Certificate of Completion

- **Culinary Institute of America**
  - Hyde Park, NY Degree Programs
    - Bachelor’s in Food Business Management
    - Bachelor’s in Applied Food Studies
    - Bachelor’s in Culinary Science
    - Associate Degree in Culinary Arts
    - Associate Degree in Baking & Pastry Arts

### Sample Occupations Related to This Pathway

- Executive Chef
- Sous Chef
- Food Writer/Blogger
- Personal Chef
- Pastry Chef
- Baker
- Dietician/Nutritionist
- Caterer
- Restaurant Manager
- Food Science
- Food and Beverage Director
- Caterer
- Event Planner
- Hospitality Management
- Small Business Owner
- Plus many more...

**Updated December 2019**

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**Sample Pathway College Credits**

- **LWIT = 16 college credits**
  - Culinary Arts (One Year) – CULA 116 = 9 credits
  - Advanced Culinary Arts – CULA 128, 130, 142 = 9 credits

- **Renton Technical College = 16 college credits**
  - Culinary Arts (One Year) – CUL102, CUL114, CUL118, CUL119, CUL121 = 16 Credits

- **Bellevue College = 8 college credits**
  - Accounting 1 & 2 – ACCT 101 or ACCT 135 = 8 credits

**NHS is a CIA Articulated High School**

See the College Credit table for more information and available credits.
Hospitality & Tourism Courses

(Hospitality & Tourism classes are all located at Newport High School.)

CULINARY ARTS

Length/Credit: 1 year - 3 periods - 3.0 CTE credits
Other Info: Students may earn 9 college credits

This is a 3-period Skill Center class (3 high school credits.) Culinary Arts is a comprehensive, career focused introduction to the fundamentals of culinary arts and the professional kitchen in a commercial setting. Students will learn French cooking techniques, culinary terminology, knife skills, aesthetics of food presentation, baking and pastry techniques, and explore a wide variety of foods and cuisines. In addition, students will have the opportunity to practice safety and sanitation procedures, restaurant management, customer relations, build team and leadership skills and catering and table service. There are also, industry related field trips to observe professionals and explore career possibilities. High School credits earned: CTE (3.0) Program fees may apply. Financial assistance may be available for qualifying students. NOTE: Block schedules affect actual class times daily.

ADVANCED CULINARY ARTS

Length/Credit: 1 year - 3 periods - 3.0 CTE credits
Other Info: Students may earn 9 college credits
Prerequisite: Culinary Arts

This is a 3-period Skill Center class (3 high school credits). Students in Advanced Culinary Arts have the opportunity to expand and refine their culinary expertise. Students are prepared with broad and transferable planning, management, communication, and advanced food production skills for employment and post-secondary education. Prerequisite: Culinary Arts High School credits earned: CTE (3.0) Program fees may apply. Financial assistance may be available for qualifying students. NOTE: Block schedules affect actual class times daily.
This career cluster focuses on our communities, including the health and well-being of individuals and families. This is a broad field ranging from personal care aides to teachers to consumer credit counselors. Workers in this field have a desire to help others, like to collaborate, possess excellent communication skills, and enjoy working with people. There is no such thing as a typical day in this field, but multi-tasking is the norm. This career pathway is expected to grow by 48% by 2022 making it one of the fastest growing clusters in the U.S. ([www.bls.gov](http://www.bls.gov))

Washington State is short 3,500 fully certified teachers annually. ([Learning Policy Institute, 2017](http://www.learningpolicyinstitute.org)) The Teaching Academy gets you into an actual classroom working with students and assisting teachers through a daily internship experience. Jump start your career in education now with this fun and engaging program or check out another Human Services course to discover your passion!

Resources for more information: [Public Health Career Guide](http://www.publichealthcareerguide.org), [National Organization for Human Services Learn.org](http://www.nohslearn.org), [teacher.org](http://www.teacher.org), [thecornerstoneforteachers.com](http://www.thecornerstoneforteachers.com), [collegeexpress.com](http://www.collegeexpress.com), [National Association for the Education of Young Children](http://www.naeyc.org), [TEACH](http://www.teach.org)

**CLASSES OFFERING PROFESSIONAL CERTIFICATIONS**

<table>
<thead>
<tr>
<th>Food Handler’s Permit</th>
<th>Culinary Essentials</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ParaPro – Paraprofessional Exam</strong></td>
<td>Teaching Academy</td>
</tr>
<tr>
<td><strong>Precision Exams – CTE Skill Certificate</strong></td>
<td>Child Development</td>
</tr>
</tbody>
</table>

**SAMPLE PROFESSIONAL ORGANIZATIONS & LEADERSHIP CLUBS**

- FCCLA: [www.fcclainc.org.org](http://www.fcclainc.org.org)
- Cooking for the Homeless
- Soup4Simpson
- ECL Homework Club
- Somerset Tutor Club

**2016 – 2026 OCCUPATIONAL GROWTH FOR WASHINGTON STATE**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Growth Rate</th>
<th>Entry Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teacher</td>
<td>19%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Teacher Assistant</td>
<td>18%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Principal</td>
<td>20%</td>
<td>Master’s</td>
</tr>
<tr>
<td>Childcare Worker</td>
<td>14%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Social Worker</td>
<td>10%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Community Coordinator</td>
<td>15%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Interior Designer</td>
<td>9 %</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Consumer Credit Counselor</td>
<td>17%</td>
<td>Bachelor’s</td>
</tr>
</tbody>
</table>

*May vary by school and/or program. Check with the teacher for specific details.

*www.careeronestop.org
### HUMAN SERVICES/EDUCATION CAREER PATHWAY EXAMPLES

<table>
<thead>
<tr>
<th>PARA EDUCATOR OR TEACHER</th>
<th>INTERIOR DESIGNER</th>
<th>PRE-SCHOOL ENTREPRENEUR/DAY CARE</th>
<th>EXPLORATORY HUMAN SERVICES</th>
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</thead>
<tbody>
<tr>
<td>Digital Technology</td>
<td>Applied Engineering</td>
<td>Digital Technology</td>
<td>Digital Technology</td>
</tr>
<tr>
<td>CS Discoveries</td>
<td>Design and Production</td>
<td>CS Discoveries</td>
<td>CS Discoveries</td>
</tr>
<tr>
<td>Media Technology</td>
<td>Accounting 1 and 2</td>
<td>Microsoft Office/Business Technology 1</td>
<td>Child Development</td>
</tr>
<tr>
<td>Video Technology</td>
<td>Interior Design and Housing</td>
<td>Accounting 1</td>
<td>Independent Living</td>
</tr>
<tr>
<td>Coding in Python 1</td>
<td>Construction Management</td>
<td>Accounting 2</td>
<td>Culinary Essentials 1</td>
</tr>
<tr>
<td>Microsoft Office/Business Technology 1</td>
<td>Construction Trades</td>
<td>Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>Microsoft Office/Business Technology 2</td>
<td></td>
<td>Introduction Marketing</td>
<td></td>
</tr>
<tr>
<td>Child Development</td>
<td></td>
<td>Child Development</td>
<td></td>
</tr>
<tr>
<td>Teaching Academy 1</td>
<td></td>
<td>Teaching Academy 1</td>
<td></td>
</tr>
<tr>
<td>Teaching Academy 2</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Digital Technology**
- CS Discoveries
- Media Technology
- Video Technology
- Coding in Python 1
- Microsoft Office/Business Technology 1
- Microsoft Office/Business Technology 2
- Child Development
- Teaching Academy 1
- Teaching Academy 2

**Applied Engineering**
- Design and Production
- Accounting 1 and 2
- Interior Design and Housing
- Construction Management
- Construction Trades

**Microsoft Office/Business Technology**
- Accounting 1
- Accounting 2
- Entrepreneurship
- Introduction Marketing
- Child Development
- Teaching Academy 1

**Interior Designer**
- Digital Technology
- CS Discoveries
- Microsoft Office/Business Technology 1
- Accounting 1
- Accounting 2
- Entrepreneurship
- Introduction Marketing
- Child Development
- Teaching Academy 1

**Pre-School Entrepreneur/Day Care**
- Digital Technology
- CS Discoveries
- Microsoft Office/Business Technology 1
- Accounting 1
- Accounting 2
- Entrepreneurship
- Introduction Marketing
- Child Development
- Teaching Academy 1

**Exploratory Human Services**
- Digital Technology
- CS Discoveries
- Child Development
- Independent Living
- Culinary Essentials 1

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**Sample Career Pathway Schedule: Para Educator or Teacher**

<table>
<thead>
<tr>
<th>PERIOD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>Sample Career Pathway Schedule: Para Educator or Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>GRADE</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>LANGUAGE ARTS</td>
<td>Physical Education</td>
<td>Physical Education</td>
<td>Physical Education</td>
<td>World Language</td>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>SOCIAL STUDIES</td>
<td>Digital Technology</td>
<td>Health</td>
<td>Video Technology</td>
<td>Microsoft Office/Business Tech 1</td>
<td>Microsoft Office/Business Tech 2</td>
<td>Teaching Academy 1</td>
</tr>
<tr>
<td>SCIENCE</td>
<td>MATH</td>
<td>ELECTIVE</td>
<td>ELECTIVE</td>
<td>ELECTIVE</td>
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**Sample Pathway College Credits**

<table>
<thead>
<tr>
<th>POST SECONDARY</th>
<th>PACIFIC NW COLLEGE CREDIT COURSES &amp; CREDITS</th>
<th>SAMPLE PATHWAY PROFESSIONAL CERTIFICATIONS</th>
<th>TECHNICAL OR ASSOCIATE DEGREES</th>
<th>SAMPLE OCCUPATIONS RELATED TO THIS PATHWAY</th>
</tr>
</thead>
</table>
| Bellevue College | Child Development – EDUC& 115 = 5 credits | Precision Exams:  
  - Child Development | Bellevue College:  
  - Early Learning and Teacher Education  
  - AA Degree Early Childhood Education  
  - Associate in Applied Science –T Degree  
  - AAS, Social & Human Services | Elementary Teacher  
  Secondary Teacher  
  Career Counselor  
  Education Specialist  
  Day Care Center Teacher  
  Consumer Credit Counselor  
  Small Business Owner  
  Preschool Director  
  Resource Development Coordinator  
  Social Worker  
  Life Skills Counselor  
  Special Education Coordinator  
  School Psychologist  
  Interior Designer  
  Plus many more |
| Interior Design & Housing – INDES 140 = 5 credits | Microsoft Office Specialist:  
  - Word  
  - Excel  
  - PowerPoint  
  - Outlook | Bellevue College Certificates:  
  - Early Childhood Education Initial  
  - General Early Childhood Education  
  - Infant and Toddler Care  
  - Early Childhood Educ. State Certification | Lake Washington Technical Institute:  
  - AAS, Early Childhood Education  
  - AAS, Interior Studies | |
| Teaching Academy 1 – EDUC 205 = 5 credits | Microsoft Office Expert:  
  - Word  
  - Excel | | | |
| Cascade Community College | Teaching Academy 1 – EDUC 102 = 5 credits | ParaPro - Paraprofessional Certificate | | | |

**Post-Secondary**
- Bellevue College
- Cascadia Community College
- Lake Washington Technical Institute

**Bellevue College**
- Child Development – EDUC& 115 = 5 credits
- Interior Design & Housing – INDES 140 = 5 credits
- Teaching Academy 1 – EDUC 205 = 5 credits

**Cascadia Community College**
- Teaching Academy 1 – EDUC 102 = 5 credits

**Lake Washington Technical Institute**
- AAS, Early Childhood Education
- AAS, Interior Studies

**Precision Exams:**
- Child Development

**Microsoft Office Specialist:**
- Word
- Excel
- PowerPoint
- Outlook

**Microsoft Office Expert:**
- Word
- Excel

**ParaPro - Paraprofessional Certificate**

**Updated December 2019**
BAKERY AND PASTRY 1
Location: Bellevue
Prerequisite: Culinary Essentials 1
This course is an option following Culinary Essentials 1. This course allows culinary students a more rigorous and in-depth study of baking and pastry work. Areas of study include: Baking terminology, tool and equipment use, formula conversions, functions of ingredients, and methods used in creating quick breads, yeasted breads, pastries, cookies, and other desserts. The fundamentals of dough and basic decorating skills are covered. The appropriate use of technology and industry standard equipment is part of this course.

CHILD DEVELOPMENT
Location: Newport
A course that builds a functional understanding of the physical, emotional, and cognitive development of children from conception to adolescence. Students will study the science and research behind the concepts while also having fun learning practical applications. The class will also explore cross cultural and global perspectives. Careers in pediatrics and education will be explored.

CULINARY ESSENTIALS 1
Location: Bellevue, Newport
This class is an introduction to nutrition and food preparation. Students will learn about healthy food choices and demonstrate skills in fundamental food preparation methods. Units covered will include basic preparation techniques for breads, eggs, dairy, fruits, vegetables and meats. Students will learn to identify and use culinary tools and equipment, including knives, hand tools, and small appliances. Whether you are interested in culinary arts and healthy food choices for yourself or in pursuing a career in the food service industry, this course will provide you with the foundation.

CULINARY ESSENTIALS 2
Location: Bellevue
This course continues to develop a student’s knowledge and skills in food preparation and service. After learning the basics in Culinary Essentials 1, it is time to explore the world of foods. Units covered will include more advanced preparation techniques for grains, stocks, sauces, soups, eggs, dairy, fruits, vegetables, meat, poultry, fish and pastries. Incorporating menu planning, nutritional analysis and some basic catering projects are also included. This course requires the student to acquire a Washington State Public Health Card. Continue your journey while developing your culinary skills.

INDEPENDENT LIVING
Location: Newport
Students gain essential life skills in this extremely important and fun course through a variety of learning experiences. Topics include personal finance; credit and consumerism; nutrition and basic cooking; clothing care and repair; basic home maintenance and easy repairs; resumes; careers and goal setting. Classroom activities assist the student in making informed decisions in all areas of everyday life now and in the future.

INTERIOR DESIGN AND HOUSING
Location: Newport
Students will use traditional methods and computer programs to create and analyze floor plans and interior schematics. Principles of design, colors and textures will be implemented to create design projects and sample boards with many practical applications. There will also be a focus on the behavioral, social, economic, functional and aesthetic aspects of housing, interiors and furnishings. Careers in architecture and design will be explored. Five college credits available for course completion.

EDUCATION AND TRAINING
(Education and Training classes are all located at Newport High School; Available to all BSD students)

TEACHING ACADEMY 1
Explore and experience the educational system from teaching to administration. In addition to instruction and seminars at the high school, students will intern with a mentor teacher at a preschool, elementary, middle, or high school of their choice. Throughout the year, students participate in the inner-workings of the classroom, school and district. They will gain knowledge and experience in teamwork, time management, communication, leadership, and current issues in the school system. This course is a must for students interested in a professional career in education.

TEACHING ACADEMY 2
Students will continue to increase their knowledge about teaching and learning through daily internship experiences. Students will work closely with the Teaching Academy instructor and mentor teacher to complete independent assignments and projects.
INFORMATION TECHNOLOGY

Information technology is embedded in every industry and accounts for $1 trillion in U.S. revenue! (www.actonline.org) This career cluster is so much more than software programs, coding, and hardware. Job opportunities could be in cybersecurity, virtual reality, technology support, education, programming, publishing, game design, and more. No matter what career interests you in this field, there are important universal skills and qualities you will need. These include proven communication skills, organization, the ability to follow and implement a plan, problem-solving skills, strong analytical skills, and an ability to focus for long periods of time. (www.straightline.com) Explore this high demand, high wage industry by signing up for one of the 12 classes BSD offers in this pathway.

Resources for more information: Monster
Information Technology Career Guide
International Water Institute
U.S. Bureau of Labor & Statistics
www.computerscienceonline.org
https://www.learnhowtobecome.org

College Credits Available:
5 - 64

Potential College Tuition Savings:
$538 -- $6,909

CLASSES OFFERING PROFESSIONAL CERTIFICATIONS*

<table>
<thead>
<tr>
<th>Class</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCNA -- Cisco Certified Network Associate</td>
<td>Cisco Networking Academy</td>
</tr>
<tr>
<td>CCNP -- Cisco Certified Network Professional</td>
<td>Advanced Cisco -- CCNP</td>
</tr>
<tr>
<td>CCSP -- Cisco Certified Security Professional</td>
<td>Advanced Cisco -- Cybersecurity</td>
</tr>
<tr>
<td>NSA CNSS 4011 – National Security Agency</td>
<td>Advanced Cisco -- Cybersecurity</td>
</tr>
<tr>
<td>MTA – Microsoft Technology Associate</td>
<td>AP Computer Science Principles</td>
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<tr>
<td></td>
<td>AP Computer Science</td>
</tr>
<tr>
<td></td>
<td>Special Topics in Computer Science</td>
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<tr>
<td></td>
<td>Cisco</td>
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SAMPLE PROFESSIONAL ORGANIZATIONS & LEADERSHIP CLUBS*

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<tr>
<th>Organization</th>
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</thead>
<tbody>
<tr>
<td>DECA: <a href="http://www.deca.org">www.deca.org</a></td>
</tr>
<tr>
<td>Cisco KnightRiders</td>
</tr>
<tr>
<td>Coding Club</td>
</tr>
<tr>
<td>Tech Project Club</td>
</tr>
<tr>
<td>Video Gaming Club</td>
</tr>
<tr>
<td>MIT Launch</td>
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2016 – 2026 OCCUPATIONAL GROWTH FOR WASHINGTON STATE**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Growth Rate</th>
<th>Entry Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Security Analyst</td>
<td>43%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Computer Network Architect</td>
<td>22%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Software Developer</td>
<td>34%</td>
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</tr>
<tr>
<td>Web Developer</td>
<td>50%</td>
<td>Associate’s</td>
</tr>
<tr>
<td>Computer Programmer</td>
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<td>Bachelor’s</td>
</tr>
<tr>
<td>Computer Operator</td>
<td>25%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Support Specialist</td>
<td>35%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Systems Analyst</td>
<td>33%</td>
<td>Bachelor’s</td>
</tr>
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</table>

*May vary by school and/or program. Check with the teacher for specific details.

**www.careeronestop.org
INFORMATION TECHNOLOGY/CISCO NETWORKING PATHWAY EXAMPLES

<table>
<thead>
<tr>
<th>CISCO NETWORKING &amp; CYBER SECURITY</th>
<th>ADVANCED STUDIES COMPUTER SCIENCE</th>
<th>WEB DEVELOPMENT</th>
<th>VIDEO GAME/ANIMATION DEVELOPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS Discoveries</td>
<td>CS Discoveries</td>
<td>CS Discoveries</td>
<td>CS Discoveries</td>
</tr>
<tr>
<td>Coding in Python 1</td>
<td>Coding in Python 1</td>
<td>Coding in Python 1</td>
<td>Coding in Python 1</td>
</tr>
<tr>
<td>Coding in Python 2</td>
<td>Coding in Python 2</td>
<td>Coding in Python 2</td>
<td>Coding in Python 2</td>
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<tr>
<td>AP Computer Science Principles</td>
<td>AP Computer Science Principles</td>
<td>Web Publishing</td>
<td>Video Game and Simulation Design</td>
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<td>AP Computer Science</td>
<td>AP Computer Science</td>
<td>Introduction to Computer Science</td>
<td>Mobile Game Development</td>
</tr>
<tr>
<td>CISCO Networking Academy - CCNA</td>
<td>CISCO Networking Academy - CCNA</td>
<td>CISCO Networking Academy - CCNA</td>
<td>DigiPen Video Game Programming</td>
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<tr>
<td>Advanced CISCO - CCNP</td>
<td>Advanced CISCO - CCNP</td>
<td>Advanced CISCO - CCNP</td>
<td>DigiPen Animation</td>
</tr>
<tr>
<td>Advanced CISCO - Cybersecurity</td>
<td>Advanced CISCO - Cybersecurity</td>
<td>Advanced CISCO - Cybersecurity</td>
<td>DigiPen Music &amp; Sound Design</td>
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Sample Career Pathway Schedule: Cisco Networking & Cyber Security

<table>
<thead>
<tr>
<th>PERIOD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<th>6</th>
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<th>8</th>
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<tr>
<td>GRADE</td>
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<tr>
<td></td>
<td>LANGUAGE ARTS</td>
<td>SOCIAL STUDIES</td>
<td>SCIENCE</td>
<td>MATH</td>
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<td>ELECTIVE</td>
<td>ELECTIVE</td>
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<tr>
<td>6</td>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Digital Technology</td>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Health</td>
<td>CS Discoveries</td>
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<tr>
<td>8</td>
<td></td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Coding in Python 1</td>
<td>Coding in Python 2</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>World Language</td>
<td>Fine Arts</td>
<td>AP Computer Science Principles</td>
</tr>
<tr>
<td>10</td>
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<td>x</td>
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<td>x</td>
<td>Physical Education</td>
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<td>AP Computer Science</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>CISCO Networking Academy - CCNA</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Advanced CISCO - Cybersecurity</td>
<td>Advanced CISCO - CCNP &amp; Advanced CISCO</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bellevue College = 35 credits
Cisco Networking Academy = NSCOM 201,202,203,204 = 20 credits
Coding in Python 1 & 2 (HS Only) -- PROG 110 = 5 credits
AP Computer Science Principles -- PROG 110 = 5 credits
AP Computer Science -- CS 210 = 5 credits
Cisco – CCNP – NTEC 227, 228, 229 = 18 credits
Cisco – CCNA Security – CIS 268 = 5 credits
Cisco – CCNA - CIS 171, 172, 173, 174 = 20 credits
Cisco – CCNA Security – CIS 225 = 6 credits

See the College Credit table for more information and available credits.
Information Technology Courses

All CISCO courses are located at Newport High School.

CISCO NETWORKING ACADEMY CCNA
Length/Credit: 1 year - 3 periods - 3.0 CTE credits; 20 college credits
Prerequisite: Basic understanding of computer operation
Other Info: Students take the CISCO Certified Network Associate (CCNA) exam at course completion. Instructors are CISCO certified.
This is a 3-period Skill Center class (3 high school credits). Discover how to design, build, manage and troubleshoot corporate enterprise networks. Learn mitigation of security threats, cybersecurity threat management, and advanced troubleshooting skills with a major emphasis on hands-on learning. Each day half the class time is spent working in a state-of-the-art networking lab. Students take the Cisco Certified Networking Associate (CCNA) exam at the completion of the course. 20 College Credits are available. High School credits earned: CTE (3.0) Program fees may apply. Financial assistance may be available for qualifying students. NOTE: Block schedules affect actual class times daily.

ADVANCED CISCO – CCNP
Length/Credit: 1 year - 3 periods - 3.0 CTE credits; 18 college credits
Prerequisite: Successful completion of CISCO Networking Academy Course
Other Info:  Students take the CISCO Certified Network Professional (CCNP) exam at course completion. Instructors are CISCO certified
This is a 3-period Skill Center class (3 high school credits). This advanced curriculum trains students to install, configure and operate local and wide area networks using protocols and technologies such as TCP/IP, OSPF, EIGRP, BGP, AAA, IPv6, MPLS, STP, DSL, VTP, Gigabit and 10 Gigabit Ethernet. This course makes extensive use of labs to focus on developing skills to build campus networks using multilayer switching technologies, creating and deploying a global intranet, and troubleshooting. Be prepared to take the Cisco Certified Networking Associate (CCNP) exams at the completion of the course. Aspects of Voice-over-IP (VoIP) and Cisco Unified Communication Manager will be covered as well as aspects of VMWare and Microsoft virtualization of servers. Students also gain experience in setting up and configuring Microsoft Server products. College credits are available. Prerequisite: Successful completion of Cisco Networking Academy CCNA Course. High School credits earned: CTE (3.0) Program fees may apply. Financial assistance may be available for qualifying students. NOTE: Block schedules affect actual class times daily.

ADVANCED CISCO – CYBERSECURITY
Length/Credit: 1 year - 3 periods - 1.0 CTE credit (may be repeated)
Prerequisite: CISCO Networking Academy or CCNA certification
Other Info: Instructors are CISCO Certified; 6 College credits available.
There has never been a greater need for professionals trained in cybersecurity. In today’s world everything is a target - from servers, computers, phones and routers to refrigerators and light bulbs. This course is designed to prepare students for certification in this field. Students learn how to select appropriate hardware and software to provide protection against known security threats. They perform advanced installation, configuration, monitoring, and troubleshooting of CISCO IOS routers and ASA firewalls as well as generic network and server equipment. Intrusion detection and intrusion prevention features of Adaptive Security Appliances (ASA firewalls), switches and routers are discussed. Students learn how to set up site-to-site VPNs between CISCO and non-CISCO devices as well as remote access VPNs between CISCO devices and clients. Encryption algorithms such as AES, IPSEC, 3DES and MD5 are discussed and implemented. This course prepares students for the following industry standard exams: Implementing CISCO IOS Network Security (IINS); Implementing CISCO Secure Access Solutions (SISAS); Implementing CISCO Edge Network Security Solutions (SENSS); Implementing CISCO Secure Mobility Solutions (SIMOS); and Implementing CISCO Threat Control Solutions (SITCS). Completion of these exams earns a student the CISCO Certified Security Professional certification.

COMPUTER SCIENCE

CODING IN PYTHON 1
This computer science course uses Python, a professional programming language widely used in the software industry. Python is an excellent first programming language for students new to line-based coding in that it provides simpler syntax and semantics and higher code readability than other programming languages (such as Java and C++). This minimizes complexity and allows students to focus on core computer science concepts, problem-solving, design and programming. Students learn fundamental computer science concepts such as data statements, expressions, variables, values & errors, control structures conditionals, while loops, indentation & function call, drawing coordinate system, colors, animation, key & mouse input, lists, for each loops, for-in-range loops, sprite-based graphics, sprites, program structure, collision detection, functions definition, parameters & arguments, return values & types.

CODING IN PYTHON 2
Students learn to make professional-looking visual programs and games with sprite-based graphics, sounds, and animation. Coding in Python 2 will introduce students to the key coding techniques of functions, dictionaries, multidimensional lists, and sprite-based graphics, as well as expanding their knowledge of loops, lists, conditionals, libraries, and input by using them all in exciting new contexts. Students will have access to professional-quality characters, backgrounds, animations and sounds to create their programs. After learning how to create and manipulate these sprites in Python, students will use proper product development processes to make more advanced and impressive programming projects than in previous Python courses. The new concepts introduced will include: Functions, Parameters and Arguments, Return Values, Dictionaries, Two-Dimensional Lists, Sprites, Sprite sheet Animation, Collision, JSON, Product Development Lifecycle, and Kanban Board.
MOBILE GAME DEVELOPMENT
Location: Bellevue, Sammamish
Mobile Game Development provides students the opportunity to learn the basic skills necessary to develop and deploy mobile applications. The course builds on the Unity platform to enable students to design games for the most popular mobile game engine, build touch screen-based user interfaces, and extend those designs for both virtual and augmented reality. No programming experience is necessary, but students with coding experience will be given the opportunity to apply those skills using C# and Microsoft Visual Studio to add custom features. Students will design, build and deploy their own 2D and 3D games for Android and iOS devices in this project-based course.

VIDEO GAME AND SIMULATION DESIGN
Location: Bellevue, Newport
In this project-based course, students will learn the fundamentals and theory of game and simulation design. Students will plan and design a series of animated games and simulations. The fundamentals of working with sprites, backgrounds, animation objects, game logic and scripting will be covered. This course provides fundamentals that will prepare students for greater success in WNIC’s DigiPen Video Game Programming course.

WEB PUBLISHING
Location: Bellevue, Sammamish, Newport
Students will learn how web pages are produced and published on the Internet. HTML, java script, and simple java will be covered. Macromedia software will be used. Topics will include development of web pages, tags, links, forms, frames, style sheets, simple programming, and dynamic routines. Students develop their own web pages during the lab exercises.

COMPUTER TECHNOLOGY
Location: Newport
While learning basic computer maintenance and simple management of operating systems in this exploratory class, students will investigate various computer topics based on individual knowledge and interest. These topics may include computer hardware and software, simple networking, graphics, HTML, computer programming, management of computers and Information Technology career areas. After taking this class, students will be better prepared to take classes such as Web Publishing, CISCO, Coding in Python 1, Video Game and Simulation, and AP Computer Science.

AP COMPUTER SCIENCE PRINCIPLES
Other info: CTE or Math credit
Be a part of this fun and engaging class. This course signals a change in direction for AP courses, as its primary emphasis builds on the students' own backgrounds and strengths and emphasizes the importance of collaboration. Students will be surprised by this class's innovative, flexible curriculum that uses the experiences, interests, and strengths of students to shape its path. The course develops computational thinking skills in the context of creative problem solving. The primary goal of the course is to introduce students to the foundational concepts of computer science and challenge them to explore how computing and technology can impact the world. In this course, students will learn about ways to analyze and study data, define and solve algorithms, how the internet works, and the global impact of computing. Rather than a deep-dive into computer programming, this class takes a broader impact and overview look at the field of computer science. It will include content and influence from classes offered at Stanford and Harvard. Passing the AP exam includes a multiple-choice test and delivery of two in-class developed projects.

AP COMPUTER SCIENCE
Other info: CTE or Math credit
This class is designed for students who plan to pursue a career that relies on computer technology. No computer programming experience is necessary; however, completion of Introduction to Computer Science and a strong math background will help assure success. Students will be learning Java, a widely used programming language that is the current standard for AP Computer Science. Topics include: program development cycle, program syntax, writing code techniques, variables, conditionals, iteration, methods, classes and recursion. Students will gain an in-depth knowledge of how computers execute programs. Since the software is free, students will also be able to work at home and/or use district provided equipment. Students will have the opportunity to write original programs in their area of interest such as a GUI, game programming, or data management.

SPECIAL TOPICS IN COMPUTER SCIENCE
While AP Computer Science focuses on control issues (loops, conditionals, methods, parameter passing, etc.), Special Topics in Computer Science focuses on data issues. Topics include: ADTs (abstract data types), stacks, queues, linked lists, binary trees, hashing, recursion, interfaces, inheritance and encapsulation. The course also introduces the notion of complexity and performance tradeoffs in examining classic algorithms such as sorting and searching and classic data structures such as lists, sets and maps. The course will include a mixture of data structure implementation as well as using off-the-shelf components from the Java Collections Framework and Microsoft Visual Studio C#.
Engineers are needed in almost every industry. Civil engineers, mechanical engineers, and industrial engineers are the fastest growing engineering occupations making up 59% of the job growth in this field. (www.bls.gov) As an engineer, the size of what you work on ranges from nanoscale to air craft carrier size. The choices are endless! Engineers have good math skills, love solving problems, have an interest in how things work, have good teamwork and communication skills, and are interested in new technological developments. (targetcareers.co.uk) Check out this fun field by signing up for a class!

Resources for more information: onedayonejob.com DISCOVERe the balance allaboutcareers.com EducatingEngineers.com engineerGirl

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Growth Rate</th>
<th>Entry Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nanotechnology</td>
<td>6%</td>
<td>Associate’s</td>
</tr>
<tr>
<td>Engineering Technician</td>
<td>6%</td>
<td>Associate’s</td>
</tr>
<tr>
<td>Electromechanical</td>
<td>6%</td>
<td>Associate’s</td>
</tr>
<tr>
<td>Engineering Technician</td>
<td>6%</td>
<td>Associate’s</td>
</tr>
<tr>
<td>Civil Engineer</td>
<td>5%</td>
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</tr>
<tr>
<td>Environmental Engineer</td>
<td>8%</td>
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</tr>
<tr>
<td>Fire Prevention &amp; Protection Engineer</td>
<td>23%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Product Safety Engineer</td>
<td>23%</td>
<td>Bachelor’s</td>
</tr>
</tbody>
</table>
### STEM/ENGINEERING CAREER PATHWAY EXAMPLES

#### ENGINEERING EXPLORATORY

- CS Discoveries
- Applied Technology
- Design and Production
- Robotics
- Flight and Space
- Coding in Python 1 and 2
- Introduction to Robotics
- Introduction to Engineering Design 1
- Introduction to Engineering Design 2
- Principles of Engineering
- Special Topics in Engineering

#### Sample Career Pathway Schedule: Engineering Exploratory

<table>
<thead>
<tr>
<th>PERIOD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<tbody>
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<td>CS Discoveries</td>
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<td>Design and Production</td>
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<td>SOCIAL</td>
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<td>Robotics</td>
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<td>MATH</td>
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<td>MATH</td>
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<td>x</td>
<td>x</td>
<td>Fine Arts</td>
<td>Introduction to Engineering Design 2</td>
</tr>
</tbody>
</table>

**Bellevue College**
- Coding in Python 1 and 2 – PROG 110 = 5 credits
- Introduction to Robotics
- Introduction to Engineering Design 1
- Introduction to Engineering Design 2
- Principles of Engineering

**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
- Coding in Python 1 and 2
- Coding in Python 2
- Introduction to Robotics

See the College Credit table for more information and available credits.

#### PACIFIC NW COLLEGE CREDIT COURSES AND CREDITS

- 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

#### SAMPLE PATHWAY PROFESSIONAL CERTIFICATIONS

- Precision Exams:
  - Introduction to Robotics
  - Introduction to Engineering Design 1
  - Introduction to Engineering Design 2
  - Principles of Engineering

#### TECHNICAL OR ASSOCIATE DEGREES

- Bellevue College:
  - 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 Bio-Engineering

- Lake Washington Technical Institute
  - Engineering Technology, AAS-T

#### SAMPLE OCCUPATIONS RELATED TO THIS PATHWAY

- 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...*

*Updated October 2019*
INTRODUCTION TO ROBOTICS
Location: Sammamish
This course is designed to provide students the opportunity to explore the basics of robotics and build skills necessary for success in STEM careers. Students will complete a variety of hands-on challenges that will require the design, construction and programming of robots, and learn the basics of robots including hardware, motors, controls, and sensors. Students will also be introduced to the basics of programming with ROBOTC. In addition, this course will provide opportunities for students to develop collaboration, problem-solving, and communication skills.

INTRODUCTION TO ENGINEERING DESIGN 1 (IED)
Location: Sammamish
Prerequisite: Algebra 1 or equivalent
In Introduction to Engineering Design 1 (IED), students will learn to analyze problems and design potential solutions as scientists and engineers through a series of project-based units and activities. Using powerful 3-dimensional design and modeling software, students will create and model their own inventions and designs. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation.

INTRODUCTION TO ENGINEERING DESIGN 2 (IED)
Location: Sammamish
Prerequisite: Engineering Design 1
This is the second semester of the Introduction to Engineering Design (IED) class. Building upon the principles of the first semester course, students will continue to explore the fundamentals of the engineering design process and 3D modeling. They will explore reverse engineering and apply concepts covered in both semesters to a culminating engineering design project.

PRINCIPLES OF ENGINEERING (POE)
Location: Sammamish
Prerequisite: Introduction to Engineering Design 1 or teacher permission
Principles of Engineering (POE) is a project-based class where students apply principles of science, math, and technology in an introduction to the challenges, tools and disciplines of the field of engineering. Students employ engineering and scientific concepts in the solution of engineering design problems. They will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students also learn how to document their work and communicate their solutions to peers and members of the professional community. Shop equipment, computers, engineering software, and precision tools will be combined with challenging texts and classroom instruction. Projects in this class will explore how the application of energy, power, materials, and structural properties influence engineering design.

SPECIAL TOPICS IN ENGINEERING
Location: Sammamish
Prerequisite: Principles of Engineering or teacher permission
Specialized Topics in Engineering allows students to apply the knowledge and skills learned in Principles of Engineering to complete large scale independent projects, as well as, team engineering design projects. The course includes introduction to basic project management and engineering economic principles as part of student design projects. Students are responsible for defining the initial scope of their projects, the deliverables that will result, and the timeline for the proposed work. Projects culminate into formal written reports and presentations. Students will choose from different aspects of engineering including civil, mechanical, aerospace, biotech/biomedical, robotics, and more.
Do you love cars and working with your hands? Do you like taking things apart to see how they work and putting them back together? In this competitive industry, every day is different using technology, tools and your problem-solving skills. Whether you are interested in mechanics, engineering, design, technology, or owning your own shop, this program, based in a state-of-the-art automotive shop, can jump start your career and post-secondary education. Have fun earning professional certifications proving your skills and participate in SkillsUSA competitions with students from across Washington State and the USA!

Resources for more information: [carcareers.org](http://carcareers.org)  
Study.com  
National Institute for Automotive Service  
EducatingEngineers.com  
[www.ase.com](http://www.ase.com)  
[www.dieselmechanicguide.com](http://www.dieselmechanicguide.com)  
[www.autotraining.edu](http://www.autotraining.edu)

**2016 – 2026 OCCUPATIONAL GROWTH FOR WASHINGTON STATE**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Growth Rate</th>
<th>Entry Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Mechanics</td>
<td>15%</td>
<td>Certificate</td>
</tr>
<tr>
<td>Automotive Specialty Technicians</td>
<td>15%</td>
<td>Certificate</td>
</tr>
<tr>
<td>Diesel Engine Specialists</td>
<td>14%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Automotive Engineers</td>
<td>10%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Mobile Heavy Equipment Mechanic</td>
<td>8%</td>
<td>HS Diploma</td>
</tr>
<tr>
<td>Product Safety Engineers</td>
<td>23%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Product Designer</td>
<td>9%</td>
<td>Bachelor’s</td>
</tr>
<tr>
<td>Marine Architects</td>
<td>4%</td>
<td>Bachelor’s</td>
</tr>
</tbody>
</table>

**CLASSES OFFERING PROFESSIONAL CERTIFICATIONS**

<table>
<thead>
<tr>
<th>Certification</th>
<th>Courses</th>
</tr>
</thead>
</table>
| SP2 -- Safety & Pollution Prevention Certificate | Automotive Technology 1  
|                                 | Automotive Technology 2 |
| ASE National Certification     | Automotive Technology 1  
|                                 | Automotive Technology 2 |

**SAMPLE PROFESSIONAL ORGANIZATIONS & LEADERSHIP CLUBS**

SkillsUSA: [https://www.skillsusa.org/](https://www.skillsusa.org/)  
ASB Auto Club

**Potential College Tuition Savings:** $215 – $1,291

*May vary by school and/or program. Check with the teacher for specific details.*
## TRANSPORTATION CAREER PATHWAY EXAMPLES

### AUTOMOTIVE MASTER MECHANIC | BUSINESS OWNER | ENGINEERING
---|---|---
Design and Production | Accounting 1 | Introduction to Robotics
Coding in Python 1 | Accounting 2 | Introduction to Engineering Design 1
Coding in Python 2 | Entrepreneurship | Introduction to Engineering Design 2
Automotive Technology 1 | Business Law | Principles of Engineering
Automotive Technology 2 | Automotive Technology 1 | Automotive Technology 1

### Sample Career Pathway Schedule: Automotive Master Mechanic

<table>
<thead>
<tr>
<th>PERIOD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRADE</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>SAMPLE PATHWAY COLLEGE CREDITS</td>
</tr>
<tr>
<td>LANGUAGE</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Applied Engineering</td>
<td>Robotics - PLTW</td>
</tr>
<tr>
<td>ARTS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bellevue College = 5 college credits</td>
</tr>
<tr>
<td>SOCIAL STUDIES</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Physical Education</td>
<td>Flight and Space - PLTW</td>
<td>CS Discoveries</td>
</tr>
<tr>
<td>SCIENCE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>World Language</td>
<td>Coding in Python 1</td>
<td>Coding in Python 2</td>
</tr>
<tr>
<td>MATH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Physical Education</td>
<td>Health</td>
<td></td>
</tr>
<tr>
<td>ELECTIVE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LWIT = 12 college credits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Automotive Technology 1 OR 2 – AUTO 210 = 10 credits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>See the College Credit table for more information and available credits.</td>
</tr>
</tbody>
</table>

### PACIFIC NW COLLEGE CREDIT COURSES AND CREDITS

- **Lake Washington Institute of Technology**
  - Automotive Technology 1 or 2 – AUTO 210 = 10 credits

### SAMPLE PATHWAY PROFESSIONAL CERTIFICATIONS

- **Automotive Service Excellence (ASE)**
  - Accreditation level: Automotive Service Technician 840 hours
  - For more information: [www.ase.com](http://www.ase.com)
  - Engineer Repair
  - Automotive Transmission & Transaxle
  - Manual Transmission & Axels
  - Steering & Suspension
  - Brakes
  - Electrical/Electronic Systems
  - Heat & Air Conditioning
  - Engine Performance
  - MLR – Maintenance & Light Repair
  - SP2 – Safety & Pollution Prevention Certificate

### TECHNICAL OR ASSOCIATE DEGREES

- **Lake Washington Technical Institute**
  - Auto Collision Repair Technician
  - Auto Repair Technician
  - Diesel and Heavy Equipment Technician
  - Electronics Technology
  - Motorcycle, Marine & Power Equipment Service Technology
  - Transportation and Logistics Management
  - Renton Technical College
  - Shoreline Community College
  - Green River Community College
  - Seattle College – South
  - Maritime Academy

### SAMPLE OCCUPATIONS RELATED TO THIS PATHWAY

- **Auto Technician**
- **Auto Body/Collision Technician**
- **Diesel Technician**
- **Heavy Equipment Technician**
- **Motorcycle Technician**
- **Marine Technician**
- **Automotive Master Mechanic**
- **Entrepreneur/Business Owner**
- **Automotive Engineer**
- **Marine Engineer**
- **Field Product Development Engineer**
- **Warranty & Service Engineer**
- **Insurance Claims Adjuster**
- **Automotive Technical Writer**
- **Mechanical Design**
- **Automotive Management**
- **Plus many more…**

*Updated December 2019*
Transportation Courses

AUTOMOTIVE TECHNOLOGY 1
Length/Credit: 1 year - 3 periods - 3.0 CTE credits; 1.0 Lab science credit available
Location: Bellevue – WANIC Skills Center (Available to all schools)
Prerequisite: Automotive Technology 1
Other Info: 2.0 CTE credit and 1.0 Lab Science Elective credit

This is a 3-period Skill Center class (3 high school credits). This STEM course provides the foundation for entry into the automotive industry as a technician, service writer/manager, or future engineer building cars; and students can earn Lab Science Equivalency credits. Students will be fast-tracked through the beginning requirements by the end of the first quarter. By the end of the first year, they will complete 3 of the 8 ASE content areas in an ASE Education Foundation certified program. Students will take the ASE certification test at the beginning and end of the course to measure growth. Students will learn in a state-of-the-art automotive shop and classroom. Leadership through Skills USA and ASB Auto Club is expected. Students will work on customer, shop owned and student scheduled vehicles. High School credits earned: CTE (2.0) Lab Science (1.0) Program fees may apply. Financial assistance may be available for qualifying students. NOTE: Block schedules affect actual class times daily.

AUTOMOTIVE TECHNOLOGY 2
Length/Credit: 1 year - 3 periods - 3.0 CTE credits; 1.0 Lab science credit available
Location: Bellevue – WANIC Skills Center (Available to all schools)
Other Info: 2.0 CTE credit and 1.0 Lab Science Elective credit

This is a 3-period Skill Center class (3 high school credits). At this advanced level of STEM training, students will focus on the intricacies of automotive professionalism. Successful completion of this class requires a high level of maturity, self-motivation, and a desire to succeed. This course has a strong STEM correlation with math, science and physics along with dexterity building and meter usage. Students can earn up to 15 college credits through Puget Sound College Credit and Lab Science Equivalency credits at Bellevue High School. Leadership through Skills USA, membership in Auto Club, and job shadowing at local shops/dealerships. Topics studied revolve around the 8 nationally recognized Automotive Service Excellence (ASE) content areas. Students will study 4 ASE topics each year. Students will also take the ASE Certification test at the beginning and end of the course to show growth. They will work on customer, shop owned and student scheduled vehicles. High School credits earned: CTE (2.0) Lab Science (1.0) Program fees may apply. Financial assistance may be available for qualifying students. NOTE: Block schedules affect actual class times daily.
MIDDLE SCHOOL CLASSES

Middle school is the perfect time for students to start diving into technology and STEM curriculum. BSD offers several fun and exciting classes for students that feeds their curiosity, imagination and creativity while building important foundational skills. Students work with current technology solving real-world problems while learning to problem-solve, work as a team, communicate in a variety of ways, and understand how technology impacts every aspect of our lives. Our middle school technology and STEM classes introduce career path options while preparing our students for success in high school and beyond.

MIDDLE SCHOOL STEM

APPLIED ENGINEERING
This semester-long, hands-on, project-oriented class introduces STEM (Science, Technology, Engineering, and Math) principles, concepts and guidelines so that the students engage in current topics related to industry standards and practices. It will incorporate an understanding of materials, machines and equipment as an important strategy to solve problems. Students will engage in a variety of technology problems individually and in cooperative groups focusing on collaboration, problem solving and presenting to a group. Students will use a design cycle to solve problems and challenges using the current equipment and facilities available to them in each school. Students will learn how to utilize a clean room for design and a fabrication room for model/prototype development. Participation and completion of Applied Engineering prepares students to solve open-ended problems with an engineering mindset.

DESIGN AND PRODUCTION
This activity-oriented, cutting-edge program shows students how technology is used in engineering to solve everyday problems. Students will gain the skills they need to develop, produce, and use products and services. In this course, students will use the design process to solve problems and understand the influence that creative and innovative design has on our lives. Students use industry standard 3D modeling software to create a virtual image of their designs and produce a portfolio to display their creative solutions. Students will take their designs to the shop and build a product and or prototype and will begin to recognize the value of capturing and documenting their ideas. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

ROBOTICS
This activity-oriented, cutting-edge program shows students how technology is used in engineering to solve everyday problems. Robotics currently consists of two instructional units, Automation and Robotics, that motivate students to become creative innovators. Students will gain the skills they need to develop, produce, and build innovative products and prototypes through problem solving and working in collaborative groups. They will face a variety of challenges that help them apply mechanical principals and programming skills.

FLIGHT AND SPACE
Location: Chinook, Odle, Tyee
This semester-long, hands-on, project-oriented class introduces the exciting world of aerospace. Students explore the science and history behind aeronautics and use their knowledge to design, build, and test different projects throughout the semester. Simulation software will be used to design and test ideas prior to building and testing prototypes. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.
MEDIA TECHNOLOGY
Location: Tyee, Tillicum, Chinook, Odle
This class is for students interested in exploring production techniques associated with graphic arts, web, photography, animation and videography. Media Technology students will explore aspects of image manipulation, non-linear video editing, graphic design, game design, and basic photography skills in incorporating technology for use with a variety of products and academic areas. The students will work individually and in groups to create a wide variety of projects demonstrating their achievements in understanding processes of the media used and creative techniques for future application in school, business or personal use.

VIDEO PRODUCTION 1
Location: Big Picture, Highland, Odle, Tyee, Tillicum, Chinook
This class introduces the basics of video production utilizing camcorders, video editing software and digital workflows. Students study video technologies, basic equipment operation, video composition, audio production and visual storytelling. Students learn and practice pre-production, production and post-production skills to produce videos. Students work in groups to create projects for a variety of purposes and audiences. The student will become aware of assorted multimedia tools that can be used to enhance future educational or work-related projects and presentations. Oral or written evaluations of work will be expected on a regular basis.

VIDEO PRODUCTION 2
Location: Highland, Odle, Tyee
The students will work as a team to increase their communication, videography, editing, storytelling and computer skills for a variety of audiences and purposes. Students film an assortment of school events and topics to be shared with their school/community. Technical skills focus on advanced techniques with camera work, audio, lighting, digital workflows and storytelling techniques. Students practice 3 steps to making movies using pre-production, production and post-production skills. Students build on their foundation from Video Production 1 to tell visual stories, communicate and develop voice for school and community purposes.

DIGITAL TECHNOLOGY
Location: Chinook, Odle, Tyee
This course provides a wide array of foundation digital tool skills used in computer-based activities. Students will be introduced to line-based coding and web development using HTML (Hyper-Text Markup Language) and code editors. Students will learn to touch type 40 wpm using proper keyboarding techniques, understand computer components and systems, and learn file management. Students will also learn to produce professional looking documents and spreadsheets using Microsoft Word and Excel. Students will learn to use advanced internet research techniques and design evidence based, multimedia presentations using PowerPoint, audio/video files and imaging software such as Adobe or Corel. Students will learn about digital citizenship, safety and explore digital technology careers. The course prepares students to take the Microsoft Certification exams if they choose.

COMPUTER SCIENCE DISCOVERIES
Location: Tyee, Tillicum, Chinook, Odle, Highland
Interested in computer science? If so, this introduction to computer science course will empower students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. Students will learn the basics of HTML and CSS as they create their own website. Students will learn the basics of JavaScript as they create their own game. This course is perfect for any beginner interested in computer science!

CS 101 - CODING IN PYTHON 1
This course is an introduction to computer science and coding in Python, a professional programming language widely used in the software industry. Python is an excellent first programming language for students new to line-based coding in that it provides simpler syntax and semantics and higher code readability than other programming languages (such as Java and C++). This minimizes complexity and allows students to focus on core computer science concepts, problem-solving, design and programming. Students learn fundamental computer science concepts including data- statements, expressions, variables, values & errors, control structures — conditionals, while loops, indentation & function call, drawing- coordinate system, colors, animation, key & mouse input, lists, for-each loops, for-in-range loops, sprite-based graphics- sprites, program structure, collision detection, functions - definition, parameters & arguments, return values & types.

CS 102 - CODING IN PYTHON 2
Students learn to make professional-looking visual programs and games with sprite-based graphics, sounds, and animation. Coding in Python 2 will introduce students to the key coding techniques of functions, dictionaries, multidimensional lists, and sprite-based graphics, as well as expanding their knowledge of loops, lists, conditional, libraries, and input by using them all in exciting new contexts. Students will have access to professional-quality characters, backgrounds, animations and sounds to create their programs. After learning how to create and manipulate these sprites in Python, students will use proper product development processes to make more advanced and impressive programming projects than in previous Python courses. The new concepts introduced will include: Functions, Parameters and Arguments, Return Values, Dictionaries, Two-Dimensional Lists, Sprites, Sprite sheet Animation, Collision, JSON, Product Development Lifecycle, and Kanban Board.
For information about career pathways and course offerings, contact your school's College and Career Advisor:

Bellevue High School – Lisa Hansen  hansenl@bsd405.org
Interlake High School – Jose Valdez  valdezi@bsd405.org
Newport High School – Vanessa Lopez-Kopp  lopezk@bsd405.org
Sammamish High School – Arlene Scott  scottar@bsd405.org

For information about college credit and college transcripts:

Pacific NW College Credit website:  PNWCollegeCredit.org
Email:  info@pnwcollegecredit.org
Phone:  425.564.6158

For information about WANIC classes:

Washington Network for Innovative Careers website:  wanic.lwsd.org

For more information and questions about Career and Technical Education:

Marilyn Henselman, Director of Career & Technical Education Programs
425-456-4186
henselmannm@bsd405.org

Grace Brady, Career & Technical Education Curriculum Developer
425-456-4188
bradyg@bsd405.org

Bellevue 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 designated youth groups. The following employees have been designated to handle questions and complaints of alleged discrimination: Title IX Coordinator: Jeff Lowell, 425-456-4010 or lowellj@bsd405.org; Section 504/ADA Coordinator: Heather Edlund, 425-456-4156 or edlundh@bsd405.org; Civil Rights/Nondiscrimination Compliance Coordinator Alexa Allman 425-456-4040 or allmana@bsd405.org. Address for all three: 12111 NE 1st St., Bellevue, WA 98005.