



CAREER PATHWAYS CATALOG

CAREER & TECHNICAL EDUCATION 2023 - 2024



 Bellevue
School District





Jess Moyer
Director of Career
and Technical
Education

Dear Parents, Guardians, and Students:

Greetings from the Career and Technical Education (CTE) Department. Career and Technical Education provides ten different career pathways for students to explore. Each pathway has either one-hour courses or specialized 2 or 3-hour courses. The pathways CTE provides are:

- Agriculture
- Architecture, Manufacturing and Construction
- Arts, AV Technology & Communications
- Business, Management & Marketing
- Health Sciences
- Hospitality & Tourism
- Human Services & Education
- Information Technology
- STEM/Aviation
- Transportation

Our 3-hour WANIC programs are held either at the Lake Washington Institute of Technology, DigiPen, or within our district. These programs are available to all students within our district. The 3-Hour WANIC programs we house are:

- Building Industry Technologies – Core Plus Construction 1 and 2 – Interlake High
- Health Science Careers – Sammamish High
- Automotive Technology 1 and 2 - Bellevue High
- CISCO CCNA/Advanced CISCO CCNP – Newport High
- Culinary Arts/Advanced Culinary Arts – Newport High

We also provide 2-hour Satellite programs that are also available to all students in our district. They are:

- Nursery and Greenhouse Operations – Interlake High
- Welding Technology, Design and Fabrication – Interlake High
- Advanced Digital Media Production – Newport High
- Teaching Academy 1 and 2 – Newport High

Our courses provide students the opportunity to earn college credit while attending classes on campus. Look at page 48 to identify which courses currently have college credit attached. We also provide Industry Recognized Certifications for students to achieve if they select to. The list of courses offering these opportunities can be found on page 51.

In 2019, House Bill 1599, passed allowing students to use CTE Pathways as a route to graduation. Students must complete two (2) credits within one career pathway to be eligible to use a CTE Pathway for graduation. See page 53 for details.

Please take the time to review this CTE Career Pathways book. It provides a sequence of courses from grades 6-12 in each career pathway that students should consider if interested in pursuing a field of study after graduation.

Sincerely,

Jess Moyer
Director of Career and Technical Education

**Bellevue School District
CAREER & TECHNICAL EDUCATION
CAREER PATHWAYS CATALOG
2023-2024**

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WHAT IS CAREER AND TECHNICAL EDUCATION?



92% of high school students and **69%** of college and adult students are engaged in CTE, learning skills in the classroom and on the job.¹

CTE PREPARES THE WORKFORCE ACROSS A WIDE RANGE OF INDUSTRIES AND OCCUPATIONS.



Agriculture, Food & Natural Resources

Architecture & Construction



Arts, AV Technology & Communications

Business Management & Administration



Education & Training

Finance



Government & Public Administration

Health Science



Hospitality & Tourism

Human Services



Information Technology

Law, Public Safety, Corrections & Security



Manufacturing

Marketing



Science, Technology, Engineering & Mathematics (STEM)

Transportation, Distribution & Logistics



CTE is delivered at comprehensive and CTE-dedicated high schools, magnet schools, area technical centers, community and technical colleges and some four-year universities.

CTE students earn industry certifications and licenses, postsecondary certificates, associate degrees, bachelor's degrees and higher.



CTE is good for students, good for businesses and good for communities.



CTE high school students are college and career ready – **94%** graduate high school and most enroll directly in college.²

CTE associate degrees can pay **\$10,000 more** per year than associate degrees in other fields – and can even pay more than bachelor's degrees – while limiting student debt.³



CTE is the answer to the nation's projected deficit of **6.5 million** skilled workers, including infrastructure, health care and manufacturing workforce shortages.⁴



LEARN MORE ABOUT CTE AT ACTEONLINE.ORG

¹ U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics (NCES), High School Longitudinal Study of 2009 (HLSL:09), Base-year, 2013 Update, and High School Transcript File; U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

² Perkins Collaborative Resource Network, Perkins Data Explorer, customized Consolidated Annual Report data; U.S. Department of Education, Office of Elementary and Secondary Education, Consolidated State Performance Report, 2010-11 through 2017-18; U.S. Department of Education, NCES, HLSL:09, Base-year, 2013 Update, High School Transcript, and Second Follow-Up.

³ Georgetown University Center on Education and the Workforce. (2020). *The overlooked value of certificates and associate's degrees: What students need to know before they go to college*; Schneider, M. (2013). *Higher education pays*; College Board, Annual Survey of Colleges; NCES, IPEDS Fall 2020 Enrollment data and IPEDS 2020 Institutional Characteristics data.

⁴ Construction Industry Resources as cited in Ngo, M. (2021). *Skilled workers are scarce, posing a challenge for Biden's infrastructure plan*. New York Times; Korn Ferry (2018) *Future of work: The global talent crunch*; Strack, R., Carrasco, M., Kolo, P., Nouri, N., Priddis, M., & George, R. (2021). *The future of jobs in the era of AI*; Wellener, P., Reyes, V., Ashton, H., & Moutray, C. (2021). *Creating pathways for tomorrow's workforce today*.

FEBRUARY 2022

EXPLORE YOUR OPTIONS

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!

- Nurse Practitioner/Physician Assistant*
- Respiratory Therapist*
- Genetic Counselor*
- Speech Pathologist*
- Judge
- Human Resource Manager
- Tour Guide
- Teacher
- Lawyer
- Minister
- Dietician
- Credit Counselor

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!

- Wind Turbine Technician*
- Solar Photovoltaic Installer*
- Chef
- Hydrologist
- Software Developer
- Physician
- Carpenter
- Electrician
- Plumber
- Construction Manager
- Veterinarian Assistant
- Commercial Pilot
- Detective or Criminal Investigator

DO YOU LIKE:

- Working with data?
- Working with numbers?
- Solving puzzles?
- Making 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!

- Statistician*
- Medical & Health Services Manager*
- Fire Inspector & Prevention Specialist*
- Logistician*
- Insurance Agent
- Librarian
- Accountant
- Paralegal
- Insurance Adjuster
- Pharmacist
- Education Administrator

DO YOU LIKE:

- Solving problems?
- Working by yourself?
- Learning new things?
- A new challenge?
- Understanding 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!

- Information Security Analyst*
- Epidemiologist*
- Actuary*
- Librarian
- Tool & Die Maker
- Surgeon
- Judge
- Engineer
- Forester
- Veterinarian
- Dental Technician
- Economist
- Financial Analyst

** Indicates one of the fastest growing jobs into 2030 per the U.S. Labor Department and the Bureau of Labor & Statistics*

WHAT DOES YOUR FUTURE HOLD FOR YOU?

The Bellevue School District has 12 different career cluster areas for you to start investigating and planning your future. Career pathways and courses begin on page 9. Be the creator of your future world and start exploring your career pathway today!!

2023-2024 CAREER & TECHNICAL EDUCATION – Courses by Career Cluster

MIDDLE SCHOOL		
<p>Technology Education</p> <ul style="list-style-type: none"> Media Technology Video Production 1 and 2 CS Discoveries CS101 - Coding in Python 1 CS102 - Coding in Python 2 	<p>STEM</p> <ul style="list-style-type: none"> Applied Engineering Design and Production Robotics Flight and Space 	<p>Health Sciences</p> <ul style="list-style-type: none"> Medical Detectives – NEW!
HIGH SCHOOL		
<p>Agricultural Education Introduction to Horticulture + Nursery & Greenhouse Operations #+ Environmental Sustainability Plant Based Design 1 Plant Based Design 2 Agriculture Worksite Learning</p> <p>Architecture/Construction/Manufacturing Metals Technology 1 Metals Technology 2 Welding Technology, Design & Fabrication #+ Woods Technology 1 Woods Technology 2 Building Industry Technologies - Core Plus Construction *+ Building Industry Technologies 2 - Core Plus Construction * - NEW! Construction Trades Worksite Learning</p> <p>Arts, AV Technology & Communication Radio & Podcast Production Television Broadcasting+ Digital Media Production 1 + Digital Media Production 2 + Advanced Digital Media Production #+ Computer Graphics 1 + Computer Graphics 2 + Photography 1 + Photography 2 + AP Photography Portfolio/2-D Design + Technical Theatre 1 + Technical Theatre 2 + Costume Design Communication Technologies Worksite Learning Communications & Journalism Worksite Learning</p>	<p>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 + Business & Marketing Worksite Learning</p> <p>Education & Training Teaching Academy 1 #+ Teaching Academy 2 #+ Education Worksite Learning</p> <p>Health Sciences Introduction to Health Care + Health Science Careers *+ Anatomy & Physiology + Biotechnology + Health Sciences Worksite Learning</p> <p>Hospitality & Tourism Culinary Arts *+ Advanced Culinary Arts *+ Personal Culinary Worksite Learning</p> <p>Human Services Bakery and Pastry 1 Child Development + Culinary Essentials 1 Culinary Essentials 2 Independent Living Interior Design & Housing + Family & Consumer Science Worksite Learning</p>	<p>Information Technology Cisco Networking Academy CCNA *+ Advanced Cisco – CCNP *+ Advanced Cisco – Cybersecurity + Computer Technology + CS201 - Coding in Python 1 CS202 - Coding in Python 2 + CS203 – Coding in Python 3 CS204 – Coding in Python 4 + Mobile Game Development Video Game & Simulation Design + AP Computer Science Principles + AP Computer Science + Special Topics in Computer Science Computer & Information Technologies Worksite Learning</p> <p>Marketing, Sales, and Service Introduction to Marketing + Advanced Marketing & Entrepreneurship + Retail Management – Student Store + Business & Marketing Worksite Learning</p> <p>Science, Technology, Engineering and Math (STEM) Introduction to Robotics Launching into Aviation 1 – NEW! Launching into Aviation 2 – NEW! Engineering Worksite Learning</p> <p>Transportation Automotive Technology 1 *+ Automotive Technology 2 *+ Transportation Worksite Learning</p>
<p>POST-SECONDARY OPTIONS</p> <ul style="list-style-type: none"> 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 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. These high-level, in-depth, 2-hour classes offer students hands-on learning in industry-like environments. 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 and industry certifications.

Satellite Programs: Nursery & Greenhouse Operations; Welding Technology, Design & Fabrication; Advanced Digital Media Production; Teaching Academy 1 & 2



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, Building Industry Technologies - Core Pus Construction, and Building Industry Technologies 2 - Core Pus Construction.



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.



College Credit indicates college credit is available at other higher education institutions other than those associated with Pacific NW College Credit schools. Students should check with the teacher of these classes for more information about how to earn these credits, obtain a transcript and credit fees, if any.



AGRICULTURE

The agriculture, horticulture, and forestry industries are expected to grow 8% by 2031, faster than average for all occupations. This career cluster has unlimited career possibilities including technology and engineering pathways. If you like working with your hands, working outdoors, having an impact on society and the environment, working with sophisticated technology, and/or science, this diverse career pathway may be for you. (For more career information see seekingwdc.org, mapyourcareer.org, and onetonline.org)

CURRENT DATA for WASHINGTON STATE			
NOW	2028	TYPES OF BUSINESSES	TOOLS OF THE TRADE
Jobs: 37,300 Average Salary: \$74,160	Overall industry job demand: +8% Hot jobs: +51% Drone Technician +22% Agriculture Sales Representative +17% Food Scientist +14% Precision Agriculture Technologists +8% Hydrologist	<ul style="list-style-type: none"> • Research Laboratories • Governments • Environmental Remediation Companies • Forests, Farms, Ranches • Small Businesses 	<ul style="list-style-type: none"> • Time Management • Organization • Adaptability • Social Perceptiveness • Tech Savviness
SAMPLE CAREER PATHWAYS			
Agriculture Engineering Park Management Environmental Policy & Planning Sustainability	Arboriculture Plant Genetics Forest Science Environmental Science	Bioprocessing Farming Floral Design Horticulture	

AGRICULTURE in the BELLEVUE SCHOOL DISTRICT		
COLLEGE CREDIT*	INDUSTRY RECOGNIZED CERTIFICATIONS*	EXTENDED LEARNING & LEADERSHIP OPPORTUNITIES*
College credits available: 2 – 8 credits Colleges: Lake Washington Institute of Technology Potential Tuition Savings: \$238 -- \$953	Principles of Floral Design Certification – Benz School of Floral Design Principles BASF Plant Science Certification	FFA – Future Farmers of America <ul style="list-style-type: none"> • www.ffa.org • washingtonffa.org 
<i>*More information starting on page 48</i>	<i>*See page 51 for more information</i>	<i>*See page 52 for more information</i>

Agriculture Courses

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

INTRODUCTION TO HORTICULTURE

Other Info: Students can earn 2 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 available; 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

Other Info: CTE or Lab Science Credit

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. Global climate change has a direct impact on agricultural systems. Without a shift in how food is grown the impacts can be devastating. This course asks students how careers in Agriculture and Horticulture can be improved through sustainable practices.

PLANT BASED DESIGN 1 (Formerly Floral Design 1)

Other Info: CTE or Fine Arts credit

This course is designed to introduce students to the principles of art through floral and plant-based design. Students create multiple floral arrangements, plant seasonal container arrangements, learn landscape design, and participate in the annual plant sales. This class is intended for students who are interested in careers in the plant-based industry, those who would like to learn more about plant-based design or how to apply art to flowers and plants.

PLANT BASED DESIGN 2 (Formerly Floral Design 2)

Other Info: CTE or Fine Arts credit

This course is designed to continue the student's exploration of principles of art through floral and plant-based design. Students create large scale floral arrangements, create arrangements for monthly flower subscriptions, and build a living wall. In addition, PBD2 students manage and run the Interlake Floral Shop. This class is intended for students who have already taken Plant Based Design 1 (PBD1) and those who may be interested in a plant-based design career.

AGRICULTURE WORKSITE LEARNING

Prerequisite: Enrollment in or completion of a one-semester Agriculture class

Students who have had one semester of a CTE class in the agriculture career pathway, and who are currently employed in a paid position with a local employer in this industry, are eligible to enroll in worksite learning. (No home-based businesses may be used for this credit.) Students can earn .5 credits for 180 hours of paid work or 1.0 credits for 360 hours of paid employment, which is the maximum allowable credit. Required paperwork must be signed off by a parent and the employer and submitted on time to earn credit. This includes monthly calendars verifying the number of hours worked and an employer evaluation completed over the course of the work experience. Each high school has a Work Site Learning Coordinator that will assist students throughout the school year.

INTERLAKE FLORAL



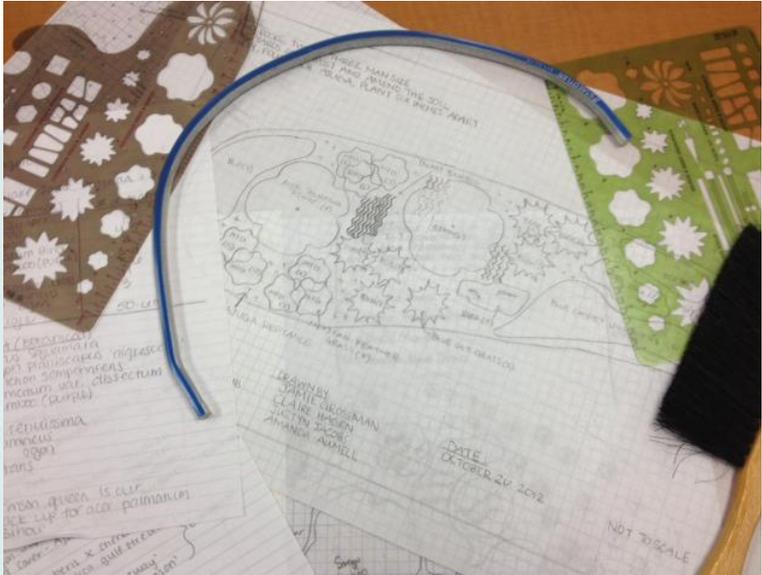
**Bernie's
Bouquets**

**CUSTOM ARRANGEMENTS BY
PLANT BASED DESIGN STUDENTS**

DELIVERED WEEKLY TO BSD LOCATIONS

**BE A PART OF A WORKING FLORAL SHOP!
LEARN REAL-WORLD SKILLS**

INTERLAKEHORTICULTURE.COM



SPRING PLANT SALE

MAY 5~7 **16425 NE 24TH,**
10AM~5PM **BELLEVUE, 98008**



INTERLAKEHORTICULTURE.COM



AGRICULTURE SAMPLE PATHWAYS and COURSE SCHEDULE

MIDDLE SCHOOL COURSES THAT SUPPORT THE AGRICULTURE PATHWAY	HIGH SCHOOL COURSES -- NURSERY MANAGER/ ENTREPRENEUR	HIGH SCHOOL COURSES -- FLORIST
Media Technology Applied Engineering Design and Production Coding in Python 1 Coding in Python 2	Plant Based Design 1 & 2 Introduction to Horticulture Environmental Sustainability Nursery and Greenhouse Operations Introduction to Marketing Entrepreneurship	Introduction to Marketing Plant Based Design 1 & 2 Introduction to Horticulture Environmental Sustainability Nursery and Greenhouse Operations

SAMPLE STUDENT COURSE SCHEDULE FOR HORTICULTURE ENTREPRENEUR

SAMPLE STUDENT COURSE SCHEDULE FOR HORTICULTURE ENTREPRENEUR						AVAILABLE COLLEGE CREDIT SAMPLE COURSE SCHEDULE
GRADE	LANGUAGE ARTS	SOCIAL STUDIES	SCIENCE	MATH	ELECTIVE	ELECTIVE
6	x	x	x	x	Physical Education	ELECTIVE
7	x	x	x	x	Physical Education	Media Technology Health
8	x	x	x	x	Physical Education	Coding in Python 1
9	x	x	x	x	World Language	Introduction to Horticulture
10	x	x	x	x	Physical Education Health	Plant Based Design 1 & 2
11	x	x	x	x	Physical Education	Environmental Sustainability
12	x	x	x	x	Fine Arts	Nursery and Greenhouse Operations

See page 48 for more information.

*See BSD Course Catalog for a full explanation of required courses by grade.

COLLEGE CREDIT AVAILABLE IN THE BSD AGRICULTURE PATHWAY	PROFESSIONAL CERTIFICATIONS OFFERED IN THE BSD AGRICULTURE PATHWAY	TECHNICAL OR ASSOCIATE DEGREES
Lake Washington Institute of Technology <ul style="list-style-type: none"> Introduction to Horticulture -- HORT 299 = 2 credits Nursery and Greenhouse Operations -- HORT 299 = 6 credits 	<ul style="list-style-type: none"> BASF Plant Science Certification Benz School of Floral Design Principles of Floral Design Certificate 	Lake Washington Institute of Technology <ul style="list-style-type: none"> Environmental Horticulture, AAS Environmental Horticulture, Certificate of Proficiency Edmonds Community College Associates -- Technical Arts: <ul style="list-style-type: none"> Horticulture -- Landscape Design Horticulture - Ornamental Horticulture Horticulture -- Sustainable Landscape Management Certificates: <ul style="list-style-type: none"> Landscape Horticulture Nursery Growers Urban Agriculture Production



ARCHITECTURE, MANUFACTURING, & CONSTRUCTION

Manufacturing has been an important industry in Seattle-King County for over a century and construction plays a key role in our future. New technologies are changing the industry, but an increase in retirements due to an aging workforce creates new career opportunities in the region. Apprenticeships are a great way to gain specialized skills while learning on the job. This is also a creative field with artists and craftsmen using many types of materials to produce art, cabinets, furniture, and much more. (For more career information see seekingwdc.org, mapyourcareer.org, and onetonline.org)

CURRENT DATA for SEATTLE – KING COUNTY			
NOW	2028	TYPES OF BUSINESSES	TOOLS OF THE TRADE
Businesses: 6,790 Jobs: 86,852 Average Salary: \$82,175 Construction \$112,74 Manufacturing	Overall construction job demand: +21% Hot jobs: +41% HVAC Mechanic & Installer +37% Iron Worker +32% Plumber, Pipefitter, Steamfitter +25% Cement Mason Overall manufacturing job demand: +39% +39% Inspector & Tester +38% Aircraft Assembler +CNC Machinist +24% Industrial Engineer	<ul style="list-style-type: none"> • Highway • Commercial • Industrial • Residential • Infrastructure • Art 	<ul style="list-style-type: none"> • Communication • Team Attitude • Math Skills • Critical Thinking • Attention to Detail • Awareness of Safety Rules & Regulations
SAMPLE CAREER PATHWAYS			
Sheet Metal Iron Work Plumbing, Pipefitting, Steamfitter Construction Equipment Operations Welding	HVAC Mechanics & Installation Safety Management Cost Estimation Architecture Manufacturing & Production	Project Management Engineering Tool & Die Business Ownership Art Creation & Installation	

CONSTRUCTION & WELDING in the BELLEVUE SCHOOL DISTRICT		
COLLEGE CREDIT*	INDUSTRY RECOGNIZED CERTIFICATIONS*	EXTENDED LEARNING & LEADERSHIP OPPORTUNITIES*
College credits available: 6 - 13 credits Colleges: Renton Technical College Lake Washington Institute of Technology Potential Tuition Savings: \$714 -- \$3,097	American Red Cross – First Aid/CPR/AED OSHA 10 – Construction OSHA 30 – Construction Core Plus Student Certification -- Construction	SkillsUSA <ul style="list-style-type: none"> • www.skillsusa.org • skillsusawashington.org 
<i>*More information starting on page 48</i>	<i>*See page 51 for more information</i>	<i>*See page 52 for more information</i>

Architecture, Manufacturing & Construction Courses

WELDING TECHNOLOGY

METALS TECHNOLOGY 1

Location: Interlake

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

Location: Interlake

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 sculpting projects. Students will have the opportunity for individualized, extended learning projects as approved by the instructor.

WELDING TECHNOLOGY, DESIGN AND FABRICATION

Location: Interlake -- Available to all BSD students

Other Info: Students can earn 7 college credits

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.



BUILDING TECHNOLOGY

WOODS TECHNOLOGY 1

Location: Interlake, Sammamish

In Woods Technology 1, students will have the opportunity to engage both their hands and their minds through learning the art of woodworking. Throughout the semester students will make tangible projects that can be taken home while becoming skilled in operating woodworking tools and shop machinery safely. Additionally, the skills learned in Woods Technology 1 will serve as a solid foundation and an invaluable skillset to be used in Woods Technology 2 and Building Industry Technologies - Core Plus Construction.

WOODS TECHNOLOGY 2

Location: Interlake, Sammamish

Building on the knowledge and foundation from the previous semester, students in Wood Technology 2 will apply learned techniques and further develop their skills working on individual projects seen in custom woodworking that may include furniture, reading and using blueprints, using industry-quality joinery techniques, and more. Students will use 3D modeling software to prototype and refine 3-dimensional models for individual projects which will include working with a variety of wood types. Using the shops' new cutting-edge laser students will be able to produce a wide range of designs in a variety of materials. Students will also develop leadership and work-place skills by working cooperatively with peers on projects and working cooperatively as a class.

BUILDING INDUSTRY TECHNOLOGIES -- CORE PLUS CONSTRUCTION

Location: Interlake

Other Info: 1.0 Math Credit (3rd year), 1.0 Science credit, 1.0 CTE credit available; Students can earn 7 college credits

Are you interested in the building industry and learning about the field of construction? Core Plus Construction is a new and unique opportunity to learn about this growing industry, explore different fields, and prepare for your future options while earning Math and CTE credits. This 3-hour course offers students the opportunity to work with industry experts who will periodically be a part of the classroom instruction providing professional knowledge and first-hand experience. In this class, students will be introduced to the use of different materials and methods, fasteners and adhesives used on job sites, learn to safely operate the various industry tools, and learn jobsite safety and OSHA requirements. Participants will learn how to design and carry out hands-on skills in practices such as rigging, lifting, and safely moving a load utilizing principles of mechanical advantage. Students will also learn how to read, understand, and interpret basic plan sets and engineering drawings. Class members will learn and utilize applied academic concepts such as math and physics, how they apply to a well-designed project, key concepts in plumbing and electrical, along with energy utilization and energy efficiencies. CORE-Plus Construction participants will learn about a variety of organizational and operational



approaches, including estimating project costs, planning, and scheduling of projects. These experiences will provide students the necessary skills to find employment in the field locally or continue their path at a post-secondary institution. Build your future---join today!

BUILDING INDUSTRY TECHNOLOGIES 2 -- CORE PLUS CONSTRUCTION

Location: Interlake

BIT1 to build more intensive skills in project plan reading, schematics, material take-offs, and project cost estimating. Students will focus on learning and demonstrating the necessary leadership skills to be successful in the class, and in the industry, by assisting in instruction and guiding other students. Other aspects of the building industry such as site and work safety, rigging, load relocation and load calculation will be discussed, practiced and implemented in the class. BIT 2 students will also participate in OSHA 30-hour training and certification, which complements the practical, hands-on work that is done in the BIT course, and provides unique credibility to prospective employers.



CONSTRUCTION WORKSITE LEARNING

Prerequisite: Enrollment in or completion of a one-semester Welding Technology or Building Technology class

Students who have had one semester of a CTE class in the Construction career pathway, and who are currently employed in a paid position with a local employer in this industry, are eligible to enroll in worksite learning. (No home-based businesses may be used for this credit.) Students can earn .5 credits for 180 hours of paid work or 1.0 credits for 360 hours of paid employment, which is the maximum allowable credit. Required paperwork must be signed off by a parent and the employer and submitted on time to earn credit. This includes monthly calendars verifying the number of hours worked and an employer evaluation completed over the course of the work experience. Each high school has a Work Site Learning Coordinator that will assist students throughout the school year.



ARCHITECTURE, CONSTRUCTION & MANUFACTURING PATHWAYS and COURSE SCHEDULE

MIDDLE SCHOOL COURSES THAT SUPPORT THE ARCHITECTURE, CONSTRUCTION, & MANUFACTURING PATHWAY	HIGH SCHOOL COURSES -- ENTRY LEVEL TRADES	HIGH SCHOOL COURSE -- WELDING FABRICATION	HIGH SCHOOL COURSES -- BUILDING INDUSTRY TECHNOLOGIES
Applied Engineering Design and Production Robotics Flight and Space	Woods Technology 1 & 2 Metals Technology 1 & 2 Building Industry Technologies 1 – Core Plus Construction Welding Technology, Design & Fabrication	Woods Technology 1 & 2 Metals Technology 1 & 2 Welding Technology, Design & Fabrication	Accounting 1 & 2 Business Law Metals Technology 1 & 2 Woods Technology 1 & 2 Building Industry Technologies 1 & 2 – Core Plus construction

SAMPLE STUDENT COURSE SCHEDULE FOR BUILDING INDUSTRY TECHNOLOGIES

SAMPLE STUDENT COURSE SCHEDULE FOR BUILDING INDUSTRY TECHNOLOGIES						AVAILABLE COLLEGE CREDIT SAMPLE COURSE SCHEDULE
GRADE	LANGUAGE ARTS	SOCIAL STUDIES	SCIENCE	MATH	ELECTIVE	ELECTIVE
6	x	x	x	x	Physical Education	ELECTIVE
7	x	x	x	x	Physical Education	Applied Engineering Design and Production
8	x	x	x	x	Physical Education	Flight and Space
9	x	x	x	x	World Language	Business Law
10	x	x	x	x	Physical Education	Metals Technology 1 & 2
11	x	x	x	x	Physical Education	Woods Technology 2
12	x	x	x	x	Building Industry Technologies - Core Plus Construction	

See page 48 for more information.

Bellevue College
Accounting 1 & 2 = 8 credits
Business Law = 5 credits

Renton Technical College
Building Industry Technologies 1 - Core Plus
Construction = 7 credits

COLLEGE CREDIT AVAILABLE IN THE BSD ARCHITECTURE, MANUFACTURING & CONSTRUCTION PATHWAY	PROFESSIONAL CERTIFICATIONS OFFERED IN THE BSD ARCHITECTURE, MANUFACTURING & CONSTRUCTION PATHWAY	TECHNICAL OR ASSOCIATE DEGREE EXAMPLES
<p>Lake Washington Institute of Technology</p> <ul style="list-style-type: none"> Welding Technology, Design and Fabrication – WELD 101 = 6 credits <p>Renton Technical College</p> <ul style="list-style-type: none"> Building Industry Technologies 1 - Core Plus Construction – CONST 160, CONST 250 = 7 credits 	<ul style="list-style-type: none"> OSHA 10 American Red Cross Adult First Aid/CPR/AED WABO - Washington Association of Building Officials Welders Certificate AWS – American Welding Society Certified Welder 	<p>Lake Washington Institute of Technology</p> <ul style="list-style-type: none"> Welding Technology, AAS Aerospace/Manufacturing Gas Tungsten Arc Welding, Certificate of Proficiency Welding Introduction, Certificate of Proficiency Welding Technology, Certificate of Proficiency <p>Renton Technical College</p> <ul style="list-style-type: none"> Commercial Building Engineering, AAS Construction Management, AAS Engineering Design Technology, AAS Welding, AAS Machining Technologies, AAS <p>Also:</p> <ul style="list-style-type: none"> UW Construction Management College of Built Environments Welding Schools Vocational Training HQ

*See BSD Course Catalog for a full explanation of required courses by grade.



ARTS, AV TECHNOLOGY & COMMUNICATION

This career cluster is focused on designing, producing, exhibiting, and publishing multimedia content along with visual and performing arts, and digital design. This creative yet technical industry has jobs that are behind the scenes as well as high profile jobs in front of an audience. There are unlimited creative possibilities in this field where you can work for yourself or for someone else. (For more career information see seekingwdc.org, mapyourcareer.org, and onetonline.org)

CURRENT DATA for WA STATE			
NOW	2031	TYPES OF BUSINESSES	TOOLS OF THE TRADE
Jobs: 1.2M (USA) Average Salary: \$57,078	Overall industry job demand: +8% - 10% Hot jobs: +11% Audio & Video Technicians +11% Film, Video Editors +11% Lighting Technicians +11% Costume Attendants +9% Camera Operators, TV, Video, Film +9% Sound Engineers +9% Media Technical/Programming Directors +3% Graphic Designers	<ul style="list-style-type: none"> • Broadcast Journalism • Visual Art • Graphic Art • Performing Art • Museums • Design • Technical • Engineering 	<ul style="list-style-type: none"> • Communication • Tech Savviness • Problem-solving • Attention to Detail • Social Perceptiveness
SAMPLE CAREER PATHWAYS			
Sound Engineering Technician Broadcast News & Journalism Written News & Journalism Media Programming	Printing & Publishing Art Directing Exhibit Design, Construction, Curating Theater Production Videography	Cinematography Photography Editing Equipment Operator	

ARTS, AV TECH & C OMMUNICATION in the BELLEVUE SCHOOL DISTRICT		
COLLEGE CREDIT*	INDUSTRY RECOGNIZED CERTIFICATIONS*	EXTENDED LEARNING & LEADERSHIP OPPORTUNITIES*
College credits available: 4 - 21 credits Colleges: Bellevue College Lake Washington Institute of Technology Shoreline Community College Potential Tuition Savings: \$481 - \$3,079	ACP (Adobe Certified Professional) – Photoshop Illustrator InDesign Premier Pro After Effects IATSE – International Alliance of Theatrical Stage Employees Local 15 Skills Assessment	WA State Thespians Digital Media/Tech Club Photography Club Video & Film Club Multimedia Club
<i>*More information starting on page 48</i>	<i>*See page 51 for more information</i>	<i>*See page 52 for more information</i>

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 for work in the industry.



DIGITAL MEDIA PRODUCTION 1

Other Info: CTE or Fine Art credit

Are you ready for the world of Video Production? The Digital Media Production 1 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, 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

Take the next step into the exciting world of multi-media with cutting edge technology making movies and recording audio. DMP 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: Newport - Available to all BSD students

Other Info: 1.0 CTE credit and 1.0 Fine Art credit available

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 will be able to obtain their Adobe Certification in the Adobe CC products such as Premiere Pro and After Effects.



COMPUTER GRAPHICS 1

Location: Bellevue, Interlake, Sammamish

Other Info: CTE or Fine Art credit

This course focuses on the graphic design industry using Adobe software found in the industry. Learn about the history of graphic design and apply the principles and elements of the art of graphic design as you create your own products such as advertisements, cereal boxes, posters, t-shirts and much more. Design and create a branding package for a client using the same process professionals use in the industry. At the end of this course, students will have the opportunity to earn their Adobe Certified Professional industry certifications in Illustrator and Photoshop. If you like combining art and technology to create new things, this is the class for you!



COMPUTER GRAPHICS 2

Location: Bellevue, Interlake, Sammamish

Other Info: CTE or Fine Art credit

This second semester of Computer Graphics focuses on Adobe InDesign and the creation of an industry-ready portfolio. Real-world projects, such as a branding package for a client, will use the same process professionals use in the industry with clients. At the end of this course, students will have a portfolio with a variety of graphic design products and a personal promotion brochure showcasing their style and skills. Students will have the opportunity to earn their Adobe Certified Professional Industry certification in Adobe 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

Location: Newport, Sammamish, Interlake, Bellevue

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, Interlake, Bellevue

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 this 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

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.

COMMUNICATIONS TECHNOLOGY WORKSITE LEARNING COMMUNICATIONS & JOURNALISM WORKSITE LEARNING VISUAL & PERFORMING ARTS WORKSITE LEARNING

Prerequisite: Enrollment in or completion of a one-semester Arts, Av Technology & Communications class

Students who have had one semester of a CTE class in the Arts, AV Technology & Communications career pathway, and who are currently employed in a paid position with a local employer in this industry, are eligible to enroll in worksite learning. (No home-based businesses may be used for this credit.) Students can earn .5 credits for 180 hours of paid work or 1.0 credits for 360 hours of paid employment, which is the maximum allowable credit. Required paperwork must be signed off by a parent and the employer and submitted on time to earn credit. This includes monthly calendars verifying the number of hours worked and an employer evaluation completed over the course of the work experience. Each high school has a Work Site Learning Coordinator that will assist students throughout the school year.

ARTS, AV TECHNOLOGY, & COMMUNICATIONS PATHWAYS and COURSE SCHEDULE

MIDDLE SCHOOL COURSES THAT SUPPORT THIS PATHWAY	HIGH SCHOOL CLASSES -- BROADCASTING/ COMMUNICATIONS	HIGH SCHOOL CLASSES -- GRAPHIC DESIGN	HIGH SCHOOL CLASSES -- MEDIA PRODUCTION	HIGH SCHOOL CLASSES -- PHOTOGRAPHY	HIGH SCHOOL CLASSES -- TECHNICAL THEATER
Media Technology Video Production 1 Video Production 2	Digital Media Production 1 & 2 Photography 1 & 2 AP Photography/2-D Design Portfolio Radio and Podcast Production Television Broadcasting	Computer Graphics 1 Computer Graphics 2	Digital Media Production 1 Digital Media Production 2 Advanced Digital Media Production	Photography 1 Photography 2 AP Photography/2-D Design Portfolio	Technical Theater 1 Technical Theater 2 Costume Design

SAMPLE STUDENT COURSE SCHEDULE FOR BROADCASTING/COMMUNICATIONS

SAMPLE STUDENT COURSE SCHEDULE FOR BROADCASTING/COMMUNICATIONS						AVAILABLE COLLEGE CREDIT SAMPLE COURSE SCHEDULE
						Bellevue College Digital Media Production 1 or 2, <u>OR</u> Television Broadcasting = 5 credits Advanced Digital Media Production = 10 credits
						Lake Washington Institute of Technology Photography 1 or 2; <u>OR</u> AP Photography Portfolio/2-D Design = 4 cr.
						Shoreline Community College Digital Media Production 1 or 2 = 5 credits
						See page 48 for more information

*See BSD Course Catalog for a full explanation of required courses by grade.

COLLEGE CREDIT AVAILABLE IN THE BSD ARTS, AV TECHNOLOGY, & COMMUNICATIONS PATHWAY	PROFESSIONAL CERTIFICATIONS OFFERED IN THE BSD ARTS, AV TECHNOLOGY, & COMMUNICATIONS PATHWAY	TECHNICAL OR ASSOCIATE DEGREES
<p>Bellevue College</p> <ul style="list-style-type: none"> Computer Graphics 1 or 2 – DMA 103 = 5 credits Digital Media Production 1 or 2 – DMA 246 = 5 credits Advanced Digital Media Production -- DMA 246, 247 = 10 credits. Computer Graphics 1 or 2 – DMA 103 = 5 credits Television Broadcasting – DMA 246 = 5 credits <p>Lake Washington Institute of Technology</p> <ul style="list-style-type: none"> Computer Graphics 1 or 2 – DSGN 121, DSGN 122 = 8 credits Photography 1 or 2; <u>OR</u> AP Photography Portfolio/2-D Design – DSGN 128 = 4 credits <p>Shoreline Community College</p> <ul style="list-style-type: none"> Digital Media Production 1 or 2 -- FILM 256 = 5 credits Advanced Digital Media Production -- FILM 256, 257 = 10 credits Technical Theater 1 and/or 2 (one year) -- DRAMA 207, 208, 209 = 6 credits Television Broadcasting – FILM 257 = 5 credits <p>AP Exam</p> <ul style="list-style-type: none"> AP Photography Portfolio/2-D Design 	<ul style="list-style-type: none"> Adobe Certified Professional: <ul style="list-style-type: none"> Photoshop Illustrator Premier Pro InDesign After Effects IATSE – International Alliance of Theatrical Stage Employees <ul style="list-style-type: none"> Local 15 Skills Assessment 	<p>Bellevue College</p> <ul style="list-style-type: none"> Associate of Arts Degree - Digital Media Arts Advanced Video Production Certificate <p>Lake Washington Institute of Technology</p> <ul style="list-style-type: none"> Digital Audio/Video Editing Certificate Digital Publishing Certificate Graphic Design Certificate Photography Certificate Video & Motion Graphics Certificate Digital Design, AAS-T <p>North Seattle College</p> <ul style="list-style-type: none"> AAS - Communication, Business, Media <p>Shoreline Community College</p> <ul style="list-style-type: none"> Associate of Arts Degree – Drama & Theater



BUSINESS & MARKETING

No matter what industry you work in, or the job you have, the basics of business, management, and administration will help you on your career path. Business is the #1 field of study with 19% of Associate and Bachelor's degrees earned. The basics of personal finance, law, economics, and accounting are essential to successfully managing personal wealth and career advancement. Students who take high school business classes develop leadership, communication, problem-solving, and collaborative skills, attributes ALL employers look for in potential employees. (For more career information see seekingwdc.org, mapyourcareer.org, and onetonline.org)

CURRENT DATA for SEATTLE – KING COUNTY			
NOW	2028	TYPES OF BUSINESSES	TOOLS OF THE TRADE
Businesses: All Jobs: 146,022 Average Salary: \$118,822	Overall industry job demand: +21% Hot jobs: +30% Financial Manager +11% Business Intelligence Analysts +11% Financial Managers +11% Paralegals & Legal Assistants +9% Human Resource Specialists +9% Credit Counselors +9% Financial & Investment Analysts +9% Marketing Managers +9% Supply Chain Managers	<ul style="list-style-type: none"> • Legal • Corporations • Private Companies • Retail • Services • Financial • Government 	<ul style="list-style-type: none"> • Problem-solving • Strategic Planning • Communications • Leadership • Flexibility • Time Management • Analytical Thinking
SAMPLE CAREER PATHWAYS			
Accounting Consulting Marketing Human Resources Banking	Law Economics Project Management Financial Planning Sales	Small Business Ownership Business Operations Administrative Support Labor Relations Event Planning	

BUSINESS & MARKETING in the BELLEVUE SCHOOL DISTRICT		
COLLEGE CREDIT*	INDUSTRY RECOGNIZED CERTIFICATIONS*	EXTENDED LEARNING & LEADERSHIP OPPORTUNITIES*
College credits available: 5 - 48 credits Colleges: Bellevue College Shoreline Community College Potential Tuition Savings: \$529 -- \$5,077	King County Food Handler's Card MOS – Microsoft Office Specialist Excel Intuit QuickBooks Certified User	DECA <ul style="list-style-type: none"> • deca.org • wadeca.org 
<i>*More information starting on page 48</i>	<i>*See page 51 for more information</i>	<i>*See page 52 for more information</i>

Business, Administration, & Marketing Courses

ACCOUNTING 1

Other Info: College credit can be earned after completing Accounting 2

Location: Bellevue, Newport, Sammamish

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

Location: Bellevue, Newport, Sammamish

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

Other Info: College credit can be earned after completing Accounting 4

Location: Bellevue, Newport, Sammamish

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, Sammamish

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 will 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. This course will include all aspects of beginning a business, funding, operating, managing and marketing. The course is project based where students will produce a viable and executable business plan. 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

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 MICROECONOMICS/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, Interlake

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.



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.



BUSINESS & MARKETING WORKSITE LEARNING

Prerequisite: Enrollment in or completion of a one-semester Business & Marketing class

Students who have had one semester of a CTE class in the Business and Marketing career pathway, and who are currently employed in a paid position with a local employer in this industry, are eligible to enroll in worksite learning. (No home-based businesses may be used for this credit.) Students can earn .5 credits for 180 hours of paid work or 1.0 credits for 360 hours of paid employment, which is the maximum allowable credit. Required paperwork must be signed off by a parent and the employer and submitted on time to earn credit. This includes monthly calendars verifying the number of hours worked and an employer evaluation completed over the course of the work experience. Each high school has a Work Site Learning Coordinator that will assist students throughout the school year.

BUSINESS & MARKETING PATHWAYS and COURSE SCHEDULE

MIDDLE SCHOOL COURSES THAT SUPPORT THE BUSINESS & MARKETING PATHWAY	HIGH SCHOOL COURSES -- ACCOUNTING	HIGH SCHOOL COURSES -- BUSINESS	HIGH SCHOOL COURSE -- MARKETING	HIGH SCHOOL COURSES -- IB BUSINESS
CS Discoveries CS101 – Coding in Python 1 CS102 – Coding in Python 2	Accounting 1 Accounting 2 Accounting 3 Accounting 4	Accounting 1,2,3,4 Entrepreneurship Personal Finance Business Law Economics or AP Micro/Macro Economics	Introduction to Marketing Advanced Marketing & Entrepreneurship Retail Management – Student Store	IB Business and Management SL IB Business and Management HL

SAMPLE STUDENT COURSE SCHEDULE FOR BUSINESS

AVAILABLE COLLEGE CREDIT SAMPLE COURSE SCHEDULE					
GRADE	LANGUAGE ARTS	SOCIAL STUDIES	SCIENCE	MATH	ELECTIVE
6	x	x	x	x	ELECTIVE
7	x	x	x	x	ELECTIVE
8	x	x	x	x	ELECTIVE
9	x	x	x	x	ELECTIVE
10	x	x	x	x	ELECTIVE
11	x	x	x	x	ELECTIVE
12	x	x	x	x	ELECTIVE

Bellevue College
 Accounting 1 & 2 = 8 credits
 Accounting 3 & 4 = 5 credits
 Business Law = 5 credits
 Entrepreneurship = 5 credits
 Personal Finance = 5 credits

*See BSD Course Catalog for a full explanation of required courses by grade.

COLLEGE CREDIT AVAILABLE IN THE BSD BUSINESS & MARKETING PATHWAY	PROFESSIONAL CERTIFICATIONS OFFERED IN THE BSD BUSINESS & MARKETING PATHWAY	TECHNICAL OR ASSOCIATE DEGREES
Bellevue College <ul style="list-style-type: none"> Accounting 1 & 2 – ACCT 101 & ACCT 135 = 8 credits Accounting 3 & 4 – ACCT 225 = 5 credits Adv. Marketing & Entrepreneurship – MKTG 299 = 5 credits Business Law – BUS&201 = 5 credits Entrepreneurship – BUS 250 = 5 credits IB Business & Management – MKTG 131 = 5 credits Intro. to Marketing – MKTG 131 = 5 credits Personal Finance – BUS102,103,104,105,108 = 5 credits Retail Management – MKTG 299 = 5 credits Shoreline Community College <ul style="list-style-type: none"> IB Business & Management – BUS 120 = 5 credits Introduction to Marketing – MKTG 131 = 5 credits AP Exam -- AP Microeconomics/Macroeconomics	<ul style="list-style-type: none"> King County Food Handler's Permit Microsoft Office Specialist Excel 	Bellevue College: <ul style="list-style-type: none"> Bachelor of Applied Science Degree in Applied Accounting Associate in Business Marketing Management Bellevue College Certificate of Achievement: <ul style="list-style-type: none"> Accounting Assistant Accounting Information Systems Accounting Preparation Administrative Assistant Bookkeeping Plus, more... Lake Washington Institute of Technology <ul style="list-style-type: none"> Accounting Business Technology Human Resource Management



HEALTH SCIENCES

Growing for several decades, Healthcare is now one of the fastest growing industries in the Seattle-King County area which has one of the largest metropolitan public health departments in the country. The increase in demand, coupled with an increase in worker retirements, presents great career opportunities in the future! (For more career information see seakingwdc.org, mapyourcareer.org/healthcare, and onetonline.org)

CURRENT DATA for SEATTLE – KING COUNTY			
NOW	2028	TYPES OF BUSINESSES	TOOLS OF THE TRADE
Businesses: 17,932 Jobs: 160,240 Average Salary: \$68,119	Overall industry job demand: +24% Hot jobs: +54% Physical Therapy Assistants +38% Medical Assistants +37% Medical Secretary +32% Licensed Practical Nurse (LPN)	<ul style="list-style-type: none"> • Hospitals • Family Medicine • Community Health • Aging/Long-term Care • Specialty Clinics • Private Practice 	<ul style="list-style-type: none"> • Communication • Attention to Detail • Critical Thinking • Social Perceptiveness
SAMPLE CAREER PATHWAYS			
Nursing/Physician Biotechnology Health Care Facility Management Respiratory Therapist	Pharmacology Dental Care Records & Health Information Physical/Occupational Therapy	Emergency Services Research Medical Engineering Behavioral Health	

HEALTH SCIENCES in the BELLEVUE SCHOOL DISTRICT		
COLLEGE CREDIT*	INDUSTRY RECOGNIZED CERTIFICATIONS*	EXTENDED LEARNING & LEADERSHIP OPPORTUNITIES*
College credits available: 5 – 33 credits Colleges: Bellevue College Lake Washington Institute of Technology Shoreline Community College Potential Tuition Savings: \$589 -- \$3,931	King County Food Handler’s Card BLS – Basic Life Support American Heart Association – First Aid/CPR/AED CNA – Certified Nursing Assistant Certificate	HOSA – Future Health Professionals <ul style="list-style-type: none"> • www.hosa.org • wahosa.org 
<i>*More information starting on page 48</i>	<i>*See page 51 for more information</i>	<i>*See page 52 for more information</i>

Health Science Courses

INTRODUCTION TO HEALTH CARE

Location: Sammamish, Bellevue, Interlake, Newport

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 CTE credit available

Other Info: Students completing coursework are eligible to take the Nursing Assistant Certified certification exam

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, and earn certification in CPR/First Aid. Students complete clinical experience hours in healthcare facilities to meet Nursing Assistant Certified (NAC) requirements. At the end of the year, students who meet course requirements earning an "A" or "B" will qualify to take the NNAAP (National Nurse Aide Assessment Program) written examination & skills evaluation, offered at Sammamish High School. 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). College Credit available. Program fees may apply. Financial assistance may be available for qualifying students. Compare this class description with Medical Careers to understand your options.



ANATOMY AND PHYSIOLOGY

Location: Bellevue, Sammamish

Other Info: 1.2 CTE or Lab Science credits; Bellevue in the High School college credit available

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.



HEALTH SCIENCES WORKSITE LEARNING

Prerequisite: Enrollment in or completion of a one-semester Health Science class

Students who have had one semester of a CTE class in the Health Sciences career pathway, and who are currently employed in a paid position with a local employer in this industry, are eligible to enroll in worksite learning. (No home-based businesses may be used for this credit.) Students can earn .5 credits for 180 hours of paid work or 1.0 credits for 360 hours of paid employment, which is the maximum allowable credit. Required paperwork must be signed off by a parent and the employer and submitted on time to earn credit. This includes monthly calendars verifying the number of hours worked and an employer evaluation completed over the course of the work experience. Each high school has a Work Site Learning Coordinator that will assist students throughout the school year.

HEALTH SCIENCE SAMPLE PATHWAYS and COURSE SCHEDULE

MIDDLE SCHOOL COURSES THAT SUPPORT THE HEALTH SCIENCES PATHWAY	HIGH SCHOOL COURSES -- CERTIFIED NURSING ASSISTANT	HIGH SCHOOL COURSES -- HEALTH SCIENCE EXPLORATORY
CS Discoveries Coding in Python 1 Coding in Python 2 Medical Detectives	Introduction to Health Care Anatomy and Physiology Health Science Careers	Anatomy and Physiology Biotechnology Introduction to Health Care
Please review the Program of Study for Bellevue College which provides information regarding all foundation courses needed to enter any health career field: https://www.bellevuecollege.edu/ahel/programs/		

SAMPLE STUDENT COURSE SCHEDULE FOR CERTIFIED NURSING ASSISTANT*

						AVAILABLE COLLEGE CREDIT SAMPLE COURSE SCHEDULE
						Bellevue College Health Science Careers = 22 credits Intro to Health Care = 5 credits
						Bellevue College in the High School Anatomy & Physiology = 6 credits
						Lake Washington Institute of Technology Health Science Careers = 13 credits
						Shoreline Community College Biotechnology = 5 credits
						See page 47 for more information.

*See BSD Course Catalog for a full explanation of required courses by grade.

COLLEGE CREDIT AVAILABLE IN THE BSD HEALTH SCIENCES PATHWAY	PROFESSIONAL CERTIFICATIONS OFFERED IN THE BSD HEALTH SCIENCES PATHWAY	TECHNICAL OR ASSOCIATE DEGREE EXAMPLES
Bellevue College <ul style="list-style-type: none"> Introduction to Health Care – AHE 100 = 5 credits Health Science Careers – NAC 106, 107, 108, 110, 120, 130 = 22 credits Bellevue College in the High School <ul style="list-style-type: none"> Anatomy & Physiology – BIOL 108 Human Biology = 6 credits Lake Washington Institute of Technology <ul style="list-style-type: none"> Health Science Careers – IFAD 162, 216, NURS 107, 108, 109 = 13 credits Shoreline Community College <ul style="list-style-type: none"> Biotechnology – BIOL 107 = 5 credits 	<ul style="list-style-type: none"> King County Food Handler's Card Health Science Careers CPR/AED for Professional Rescuers – Health Science Careers American Heart Association Adult First Aid/CPR/AED – Introduction to Health Care CNA – Certified Nursing Assistant – Health Science Careers 	Bellevue College: <ul style="list-style-type: none"> Medical Administrative Assistant Medical Billing and Coding Specialist Phlebotomy Technician Clinical Lab Assistant Medical Assistant – Certified Lake Washington Institute of Technology <ul style="list-style-type: none"> Medical Assisting, AAS Medical Assisting Office Administration, Certificate of Completion Medical Assisting, Certificate of Proficiency Associate in Pre-Nursing, DTA/MRP Nursing AAS-T Degree Occupational Therapy Assistant, AAS-T Physical Therapist Assistant, AAS



HOSPITALITY & TOURISM

As part of the Hospitality & Tourism cluster, Culinary Arts can be the doorway to dozens of careers ranging from head chefs to dietitians to restaurant designers. Culinary is a fast-paced, creative, and scientific career field. And across the country, the industry is growing a rapid 26% by 2030 creating many opportunities for those that want to start their careers. (For more career information see seakingwdc.org, mapyourcareer.org, and onetonline.org)

CURRENT DATA for WASHINGTON STATE			
NOW	2028	TYPES OF BUSINESSES	TOOLS OF THE TRADE
Restaurants: 14,039 Jobs: 132,740 Average Salary: \$60,720	Overall industry job demand: +26% Hot jobs: +11% Chefs, Head Cooks +11% Restaurant Cooks +11% Lodging Managers +9% Bakers +9% Food Service Manager +5.5% Dietitians, Nutritionists	<ul style="list-style-type: none"> • Restaurants • Retail • Health Care • Government • Travel • Corporate 	<ul style="list-style-type: none"> • Communication • Leadership • Adaptability/Flexibility • Teamwork/Collaboration • Critical Thinking • Resourcefulness • Decision Making
SAMPLE CAREER PATHWAYS			
Chef	Travel	Lodging	
Entrepreneur	Event Planning	Product Research & Development	
Science	Catering	Government Agencies	
Research	Corporate	Grocery/Food Retail	
Nutrition	Buying/Distribution	Food Styling	

BUSINESS & MARKETING in the BELLEVUE SCHOOL DISTRICT		
COLLEGE CREDIT*	INDUSTRY RECOGNIZED CERTIFICATIONS*	EXTENDED LEARNING & LEADERSHIP OPPORTUNITIES*
College credits available: 3 - 21 credits Colleges: Lake Washington Institute of Technology Renton Technical College Culinary Institute of America Potential Tuition Savings: \$723 -- \$3,080	King County Food Handler's Card ServSafe Food Manager Certification	Newport Knives ProStart Invitational <ul style="list-style-type: none"> • National Restaurant Association 
<i>*More information starting on page 48</i>	<i>*See page 51 for more information</i>	<i>*See page 52 for more information</i>

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 kitchen classroom. 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, team and leadership skills, and catering and table service. There are also industry related field trips to observe professionals and explore career possibilities. Students who successfully complete Year 1 may be eligible to apply for Year 2. High School credits earned: CTE (3.0). College Credit available. 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; Culinary Institute of America college credit available

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.

PERSONAL CULINARY WORKSITE LEARNING

Prerequisite: Enrollment in or completion of a one-semester Hospitality & Tourism class

Students who have had one semester of a CTE class in the Hospitality & Tourism career pathway, and who are currently employed in a paid position with a local employer in this industry, are eligible to enroll in worksite learning. (No home-based businesses may be used for this credit.) Students can earn .5 credits for 180 hours of paid work or 1.0 credits for 360 hours of paid employment, which is the maximum allowable credit. Required paperwork must be signed off by a parent and the employer and submitted on time to earn credit. This includes monthly calendars verifying the number of hours worked and an employer evaluation completed over the course of the work experience. Each high school has a Work Site Learning Coordinator that will assist students throughout the school year.





HUMAN SERVICES & EDUCATION

The Human Services and Education cluster is a broad field that focuses on our communities, including the health and well-being of individuals and families. Multitasking, organization, and communication are key to all jobs in this field where no two days are the same. Occupations in personal care services are expected to make up nearly half of projected job openings in this cluster by 2030. Education is also a high demand field with almost 3,000 annual job openings in Washington State. (For more career information see seekingwdc.org, mapyourcareer.org, and onetonline.org)

CURRENT DATA for SEATTLE – KING COUNTY			
NOW	2028	TYPES OF BUSINESSES	TOOLS OF THE TRADE
Organizations: 543 Jobs: 191,276 Average Salary: \$89,900	Overall construction job demand: +11% Hot jobs: +22% Teachers – all levels +21% Police Officers +19% Education Administrators	<ul style="list-style-type: none"> • Health Care • Education • Government • Non-profit • Community • Public Sector 	<ul style="list-style-type: none"> • Project Flexibility • Communication • Data Literacy • Leadership • Multitasking • Organization
SAMPLE CAREER PATHWAYS			
Consumer Credit Counseling Teaching Early Childhood Education Library Science Policing/Security	Fire Services Counseling Social Services Non-profit Management Child Care	Community Services Community Health Care Urban/Regional Planning Rehabilitation Services	

HUMAN SERVICES & EDUCATION in the BELLEVUE SCHOOL DISTRICT		
COLLEGE CREDIT*	INDUSTRY RECOGNIZED CERTIFICATIONS*	EXTENDED LEARNING & LEADERSHIP OPPORTUNITIES*
College credits available: 5 - 15 credits Colleges: Bellevue College Cascadia College Lake Washington Institute of Technology Potential Tuition Savings: \$526 -- \$1,578 <i>*For more information starting on page 48</i>	King County Food Handler's Permit <i>*See page 51 for more information</i>	Teaching Academy Club FCCLA – Family, Career and Community Leaders of America <ul style="list-style-type: none"> • fclainc.org • wa-fccla.org  <i>*See page 52 for more information</i>

Human Services & Education Courses

FAMILY & CONSUMER SCIENCES

BAKERY AND PASTRY 1

Location: Bellevue, Newport, Sammamish

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, Sammamish

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, Sammamish

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.



FAMILY & CONSUMER SCIENCE WORKSITE LEARNING

Prerequisite: Enrollment in or completion of a one-semester Family & Consumer Science class

Students who have had one semester of a CTE class in the Family & Consumer Science career pathway, and who are currently employed in a paid position with a local employer in this industry, are eligible to enroll in worksite learning. (No home-based businesses may be used for this credit.) Students can earn .5 credits for 180 hours of paid work or 1.0 credits for 360 hours of paid employment, which is the maximum allowable credit. Required paperwork must be signed off by a parent and the employer and submitted on time to earn credit. This includes monthly calendars verifying the number of hours worked and an employer evaluation completed over the course of the work experience. Each high school has a Work Site Learning Coordinator that will assist students throughout the school year.

EDUCATION & 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.

EDUCATION WORKSITE LEARNING

Prerequisite: Enrollment in or completion of a one-semester Education & Training class

Students who have had one semester of a CTE class in the Education & Training career pathway, and who are currently employed in a paid position with a local employer in this industry, are eligible to enroll in worksite learning. (No home-based businesses may be used for this credit.) Students can earn .5 credits for 180 hours of paid work or 1.0 credits for 360 hours of paid employment, which is the maximum allowable credit. Required paperwork must be signed off by a parent and the employer and submitted on time to earn credit. This includes monthly calendars verifying the number of hours worked and an employer evaluation completed over the course of the work experience. Each high school has a Work Site Learning Coordinator that will assist students throughout the school year.



HUMAN SERVICES & EDUCATION SAMPLE PATHWAYS and COURSE SCHEDULE

MIDDLE SCHOOL COURSES THAT SUPPORT THE HUMAN SERVICES PATHWAYS	HIGH SCHOOL COURSE -- PARA EDUCATOR OR TEACHER	HIGH SCHOOL COURSE -- INTERIOR DESIGNER/ENTREPRENEUR	HIGH SCHOOL COURSE -- PRE-SCHOOL ENTREPRENEUR/DAY CARE
CS Discoveries Media Technology Video Production 1 CS 101 - Coding in Python 1	Independent Living Culinary Essentials 1 Child Development Teaching Academy 1 Teaching Academy 2	Accounting 1 & 2 Entrepreneurship Business Law Interior Design & Housing	Accounting 1 Accounting 2 Entrepreneurship Introduction to Marketing Child Development Teaching Academy 1

SAMPLE STUDENT COURSE SCHEDULE FOR PARA EDUCATOR/TEACHER

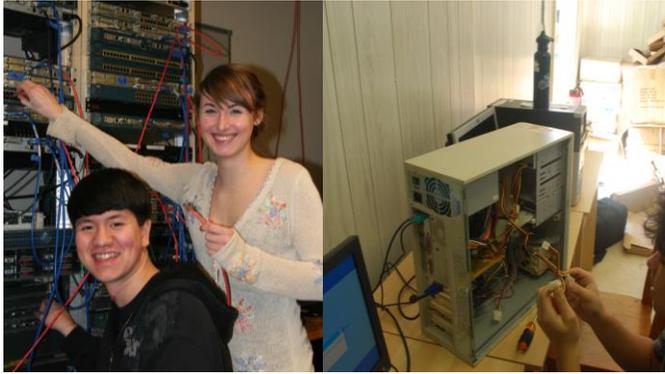
SAMPLE PATHWAY COLLEGE CREDITS					
GRADE	LANGUAGE ARTS	SOCIAL STUDIES	SCIENCE	MATH	ELECTIVE
6	x	x	x	x	ELECTIVE
7	x	x	x	x	Physical Education
8	x	x	x	x	Physical Education
9	x	x	x	x	Physical Education
10	x	x	x	x	World Language
11	x	x	x	x	Physical Education
12	x	x	x	x	Physical Education
					Fine Arts

SAMPLE PATHWAY COLLEGE CREDITS	
ELECTIVE	CS Discoveries Media Technology Coding in Python 1 Culinary Essentials 1 Child Development Teaching Academy 1 Teaching Academy 2
ELECTIVE	Health Video Production 1 Independent Living Health Teaching Academy 1 Teaching Academy 2
ELECTIVE	Bellevue College Child Development = 5 credits Teaching Academy 1 = 5 credits Cascadia Community College Teaching Academy 1 – EDUC 102 = 5 credits

See page 48 for more information.

*See BSD Course Catalog for a full explanation of required courses by grade.

HUMAN SERVICES & EDUCATION COLLEGE CREDIT COURSES	PROFESSIONAL CERTIFICATIONS	TECHNICAL OR ASSOCIATE DEGREES
Bellevue College <ul style="list-style-type: none"> Child Development -- EDUC& 115 = 5 credits Interior Design & Housing -- INDES 140 = 5 credits Teaching Academy 1 – EDUC& 205 = 5 credits Cascadia Community College <ul style="list-style-type: none"> Teaching Academy 1 – EDUC 102 = 5 credits 	<ul style="list-style-type: none"> ParaPro - Paraprofessional Certificate 	Bellevue College: <ul style="list-style-type: none"> Early Learning and Teacher Education AA Degree Early Childhood Education Associate in Applied Science –T Degree AAS, Social & Human Services Bellevue College Certificates: <ul style="list-style-type: none"> Early Childhood Education Initial General Early Childhood Education Infant and Toddler Care Early Childhood Educ. State Certification Lake Washington Institute of Technology <ul style="list-style-type: none"> AAS, Early Childhood Education AAS, Interior Studies



INFORMATION TECHNOLOGY

The Seattle – King County region is predicted to remain one of the largest hubs for technology in the country. As new technologies emerge, new types of jobs and careers are being created that never existed before, making this one of the most interesting career clusters. While this rapidly changing field promises innovative and exciting careers, it requires adaptability and flexibility as projects rapidly change focus along with the technology. (For more career information see seekingwdc.org, mapyourcareer.org, and oneline.org)

CURRENT DATA for SEATTLE – KING COUNTY			
NOW	2028	Work Areas	TOOLS OF THE TRADE
Businesses: 2,359 Jobs: 107,470 Average Salary: \$229,473	Overall construction job demand: +25% Hot jobs: +43% Security Analysts +35% Web Developer/Designer +32% Database Administrators +27% Computer User Support Specialist	<ul style="list-style-type: none"> E-Commerce Interactive Media Software & App Development Mobile Data Analysis Cloud Social 	<ul style="list-style-type: none"> Communication Team Attitude Curiosity Problem Solving Systems Thinking Creativity
SAMPLE CAREER PATHWAYS			
Data Science Data Analysis Security Engineering Hardware Engineering	Cloud Architecture Counseling Computer User Support Augmented Reality Engineer	Web Development & Design Network Systems Machine Learning Engineer	

INFORMATION TECHNOLOGY in the BELLEVUE SCHOOL DISTRICT		
COLLEGE CREDIT*	INDUSTRY RECOGNIZED CERTIFICATIONS*	EXTENDED LEARNING & LEADERSHIP OPPORTUNITIES*
College credits available: 5 - 55 credits Colleges: Bellevue College Edmonds College Lake Washington Institute of Technology Potential Tuition Savings: \$526 -- \$5,784	Cisco <ul style="list-style-type: none"> CCNA – Cisco Certified Associate CCNP – Cisco Certified Network Professional CCSP – Cisco Certified Security Professional National Security Agency & Committee on National Security <ul style="list-style-type: none"> NSA CNSS 4011 The Python Institute <ul style="list-style-type: none"> PCEP – Certified Entry-Level Python Programmer PCAP – Certified Associate in Python Programming UCU – Unity Certified User	Cisco Project Club Programming & Coding Clubs TSA – Technology Student Association <ul style="list-style-type: none"> tsaweb.org washingtontsa.org 
<i>*For more information starting on page 48</i>	<i>*See page 51 for more information</i>	<i>*See page 52 for more information</i>

Information Technology Courses

CISCO ACADEMY

(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. Python is introduced for scripting and configuration. 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. Students who successfully complete CCNA may be eligible to apply for CCNP. High School credits earned: CTE (3.0). College Credit available. Program fees may apply. Financial assistance may be available for qualifying students. NOTE: Block schedules affect 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 Professional (CCNP) exams at the completion of the course. Aspects of cloud computing with Microsoft Azure and Amazon AWS are covered as well as Voice-over-IP (VoIP) and Cisco Unified Communication Manager topics. Students use VMWare and Microsoft virtualization product to build servers in virtual and cloud environments. 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). College Credit available. Program fees may apply. Financial assistance may be available for qualifying students. NOTE: Block schedules affect class times daily.



ADVANCED CISCO – CYBERSECURITY

Length/Credit: 1 semester (may be repeated); 0.5 - 1.0 CTE credit

Prerequisite: CISCO Networking Academy or CCNA certification

Other Info: Instructors are CISCO Certified; 5 300-level 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 (SENS); 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

CS 201 - CODING IN PYTHON 1

Other Info: College credit can be earned after completing high school Python 2

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.



CS202 - CODING IN PYTHON 2

Prerequisite: High school Python 1 or middle school Python 1 & 2

Other Info: College credit can be earned after completing high school 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.



CS203 - CODING IN PYTHON 3

Prerequisite: High school Python 2

Other Info: College credit can be earned after completing Python 4

Location: Bellevue, Interlake, Newport, Sammamish

This course continues the in-depth journey with coding in Python from CS202. During the course, students will master fundamental coding concepts such as file systems, information storage and retrieval, and error handling. Students will also gain proficiency with advanced topics including user-defined modules, data as values, data as references, and graphical user interfaces. In addition, students will learn the product development cycle of user testing, iteration, and automated testing that is ubiquitous in the software industry. Throughout the course, students will continuously demonstrate their knowledge through both traditional assessments and real-world coding projects, growing their professional portfolio.



CS204 - CODING IN PYTHON 4

Prerequisite: High school Python 3

Location: Bellevue, Interlake, Newport, Sammamish

Other Info: College credit can be earned after completing Python 4

This course completes the in-depth journey with coding in Python from CS203. During the course, students will master object-oriented programming concepts through the use of classes and domain-driven design. Students will also explore several different possible future paths for study and careers in computer science including web development, data science, and cybersecurity. In addition, students will research the effects of technology on society and investigate how to build software with a goal of solving social problems. Throughout the course, students will continuously demonstrate their knowledge through traditional assessments and expand their professional project portfolio with a capstone coding project. Upon completion, students will be prepared to step into a variety of coding fields as an entry-level Python programmer.



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. C# scripts will be written in Microsoft Visual Studio Code, and so some coding experience is recommended. 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, Big Picture

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 WANIC's DigiPen Video Game Programming course.



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#.

COMPUTER & INFORMATION TECHNOLOGIES WORKSITE LEARNING

Prerequisite: Enrollment in or completion of a one-semester Information Technology class

Students who have had one semester of a CTE class in the Information Technology career pathway, and who are currently employed in a paid position with a local employer in this industry, are eligible to enroll in worksite learning. (No home-based businesses may be used for this credit.) Students can earn .5 credits for 180 hours of paid work or 1.0 credits for 360 hours of paid employment, which is the maximum allowable credit. Required paperwork must be signed off by a parent and the employer and submitted on time to earn credit. This includes monthly calendars verifying the number of hours worked and an employer evaluation completed over the course of the work experience. Each high school has a Work Site Learning Coordinator that will assist students throughout the school year.



INFORMATION TECHNOLOGY SAMPLE PATHWAYS and COURSE SCHEDULE

MIDDLE SCHOOL COURSES THAT SUPPORT THE INFORMATION TECHNOLOGY PATHWAY	HIGH SCHOOL COURSES -- CISCO NETWORKING & CYBER SECURITY	HIGH SCHOOL COURSES -- COMPUTER SCIENCE	HIGH SCHOOL COURSES -- VIDEO GAME/ANIMATION DIGIPEN
CS Discoveries CS101 – Coding in Python 1 CS102 – Coding in Python 2	AP Computer Science Principles AP Computer Science CISCO Networking Academy - CCNA Advanced CISCO - CCNP Advanced CISCO - Cybersecurity	CS 101 & 102 or 201 - Coding in Python 1 CS 202 - Coding in Python 2 CS 203 & CS 204 - Coding in Python 3 & 4 AP Computer Science Principles AP Computer Science Special Topics in Computer Science	Coding in Python 1, 2, 3, 4 Photography 1 Video Game & Simulation Design Mobile Game Development DigiPen Video Game Programming DigiPen Animation DigiPen Music & Sound Design

SAMPLE STUDENT COURSE SCHEDULE FOR CISCO NETWORKING/CYBER SECURITY

SAMPLE PATHWAY COLLEGE CREDIT					
GRADE	LANGUAGE ARTS	SOCIAL STUDIES	SCIENCE	MATH	ELECTIVE
6	x	x	x	x	Physical Education
7	x	x	x	x	Physical Education
8	x	x	x	x	Physical Education
9	x	x	x	x	World Language
10	x	x	x	x	Physical Education
11	x	x	x	x	Health
12	x	x	x	x	Advanced Cisco Cybersecurity

ELECTIVE	ELECTIVE	ELECTIVE
CS Discoveries	CS Discoveries	CS Discoveries
Coding in Python 1	Coding in Python 1	Coding in Python 1
Coding in Python 2	Coding in Python 2	Coding in Python 2
AP Computer Science Principles	AP Computer Science Principles	AP Computer Science Principles
AP Computer Science	AP Computer Science	AP Computer Science
Cisco Networking Academy - CCNA	Cisco Networking Academy - CCNA	Cisco Networking Academy - CCNA
Advanced Cisco CCNP	Advanced Cisco CCNP	Advanced Cisco CCNP

See page 48 for more information.

*See BSD Course Catalog for a full explanation of required courses by grade.

COLLEGE CREDIT AVAILABLE IN THE BSD INFORMATION TECHNOLOGY PATHWAY	PROFESSIONAL CERTIFICATIONS OFFERED IN THE BSD INFORMATION TECHNOLOGY PATHWAY	TECHNICAL OR ASSOCIATE DEGREES
Bellevue College <ul style="list-style-type: none"> CCNA – NSCOM 201, 202, 203, 204 = 20 credits Advanced Cisco Cybersecurity – ISIT 305 = 5 credits Coding in Python 1 & 2 (HS Only) -- PROG 108 = 5 credits Coding in Python 3 & 4 -- PROG 120 = 5 credits AP Computer Science Principles – PROG 110 = 5 credits AP Computer Science -- CS 210 = 5 credits Video Game & Simulation Design – DMA 106 = 5 credits Computer Technology – IT 101 = 5 credits Edmonds College <ul style="list-style-type: none"> Cisco Networking Academy -- CIS171, 172, 173, 174 = 20 cr. Advanced Cisco Cybersecurity – CIS 268= 5 credits AP Computer Science – CIS 199 = 5 credits AP Computer Science Principles – CIS 125 = 5 credits Coding in Python 1 & 2 (HS Only) – CIS 100 = 5 credits Computer Technology – CIS 100 = 5 credits Lake Washington Institute of Technology <ul style="list-style-type: none"> Computer Technology – BTE 120 = 5 credits 	<ul style="list-style-type: none"> Cisco <ul style="list-style-type: none"> CCNA – Cisco Certified Associate CCNP – Cisco Certified Network Professional CCSP – Cisco Certified Security Professional National Security Agency & Committee on National Security <ul style="list-style-type: none"> NSA CNSS 4011 The Python Institute <ul style="list-style-type: none"> PCEP – Certified Entry-Level Python Programmer PCAP – Certified Associate in Python Programming UCU – Unity Certified User 	Bellevue College: <ul style="list-style-type: none"> Bachelor of Applied Science Degree in Information Systems and Technology: <ul style="list-style-type: none"> Application Development Business Intelligence Systems Administration Information Security Lake Washington Institute of Technology <ul style="list-style-type: none"> Computer Security & Network Technician Associate in Technology, DTA/MRP Information Technology Applications Development, AAS-T Certificate of Proficiency or Completion <ul style="list-style-type: none"> C++ Software Design Engineer C++/C# Programmer



STEM -- ENGINEERING

Engineering and the engineering design process is used in almost every industry from food to medical to high tech products. The Seattle – King County region specializes in aerospace, including airplane manufacturing. Industry branches, with many subcontracting businesses, range from design to quality control. With a large number of employees retiring over the next few years, this is one of the hottest fields for career opportunities. (For more career information see seekingwdc.org, mapyourcareer.org, and onetonline.org)

CURRENT DATA for SEATTLE – KING COUNTY			
NOW	2028	Work Areas	TOOLS OF THE TRADE
Businesses: 2,520 Jobs: 103,518 Average Salary: \$112,746	Overall construction job demand: +39% Hot jobs: +39% Inspector & Tester +38% Aircraft Assembler +34% CNC Machinist +24% Industrial Engineer	<ul style="list-style-type: none"> • Aerospace • Shipbuilding • Food • Medical Devices • Apparel • Government 	<ul style="list-style-type: none"> • Communication • Attention to Detail • Critical Thinking • Collaboration • Creativity
SAMPLE CAREER PATHWAYS			
Quality Assurance Inspecting/Testing Metals & Plastics Fabrication Machine Operation	Tool & Die CNC Machining Aircraft Mechanics Industrial Engineering	Civil Engineering Aerospace Engineering Manufacturing Engineering Electrical Engineering	

STEM - ENGINEERING in the BELLEVUE SCHOOL DISTRICT		
COLLEGE CREDIT*	INDUSTRY RECOGNIZED CERTIFICATIONS*	EXTENDED LEARNING & LEADERSHIP OPPORTUNITIES*
<ul style="list-style-type: none"> • To be determined 	CSWA – Certified SOLIDWORKS Associate <ul style="list-style-type: none"> • CSWA-EDU – Academic Certification • CSWA-AM – Additive Manufacturing Certification 	TSA – Technology Student Association <ul style="list-style-type: none"> • tsaweb.org • washingtontsa.org 
<i>*For more information starting on page 48</i>	<i>*See page 51 for more information</i>	<i>*See page 52 for more information</i>

Engineering Courses

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.

LAUNCHING INTO AVIATION 1 -- NEW!!

Location: Sammamish

This introductory semester will provide the foundation for advanced exploration in the areas of flying and unmanned aircraft systems. Students will learn about the engineering process, problem solving, and the innovations and technological developments that have made today's aviation and aerospace industries possible. Students will look at the problem-solving processes and innovative leaps that took space exploration from the unimaginable to the common in a single generation. Students will also gain an historical perspective starting from the earliest flying machines to the wide variety of modern aircraft and the integral role they play in making today's world work. Projects include operations using helicopter, hot air and gas ballooning, gliders, wind tunnel, jet engines, and aircraft navigation.

LAUNCHING INTO AVIATION 2 -- NEW!!

Location: Sammamish

This core aerospace and aviation semester provides the foundation for both pathways. It is designed to give students a clear understanding of career opportunities in aviation and aerospace and the critical issues affecting the aviation system. Students will also begin to drill down into the various sectors of aviation and the parts that make up the aviation and aerospace ecosystem. They will discover how advances in aviation created a need for regulation and will learn about the promulgation of civil aviation oversight. Students will explore modern day innovations and will develop their own innovative ideas to address real-world challenges facing the aviation industry. They will be exposed to a variety of career options in aviation and aerospace and take an in-depth look at the opportunities available. Projects include career exploration in becoming an aerospace engineer, air traffic controller, improving aviation's environmental impact, Supersonic Aircraft, Electric Aircraft, plus more.

ENGINEERING WORKSITE LEARNING

Prerequisite: Enrollment in or completion of a one-semester Engineering class

Students who have had one semester of a CTE class in the STEM -- Engineering career pathway, and who are currently employed in a paid position with a local employer in this industry, are eligible to enroll in worksite learning. (No home-based businesses may be used for this credit.) Students can earn .5 credits for 180 hours of paid work or 1.0 credits for 360 hours of paid employment, which is the maximum allowable credit. Required paperwork must be signed off by a parent and the employer and submitted on time to earn credit. This includes monthly calendars verifying the number of hours worked and an employer evaluation completed over the course of the work experience. Each high school has a Work Site Learning Coordinator that will assist students throughout the school year.

STEM – ENGINEERING SAMPLE PATHWAYS and COURSE SCHEDULE

MIDDLE SCHOOL COURSES THAT SUPPORT THE STEM PATHWAY	HIGH SCHOOL COURSES -- ENGINEERING
Applied Engineering Design and Production Robotics Flight and Space	Coding in Python 1 & 2 Introduction to Robotics Woods Technology 1 & 2 Launching into Aviation 1 & 2

SAMPLE STUDENT COURSE SCHEDULE FOR ENGINEERING

SAMPLE STUDENT COURSE SCHEDULE FOR ENGINEERING						AVAILABLE COLLEGE CREDIT SAMPLE COURSE SCHEDULE
GRADE	LANGUAGE ARTS	SOCIAL STUDIES	SCIENCE	MATH	ELECTIVE	ELECTIVE
6	x	x	x	x	Physical Education	ELECTIVE
7	x	x	x	x	Physical Education	Applied Engineering Design and Production
8	x	x	x	x	Physical Education	Robotics Flight and Space
9	x	x	x	x	World Language	Coding in Python 2
10	x	x	x	x	Physical Education	Introduction to Robotics
11	x	x	x	x	Physical Education	Woods Technology 2
12	x	x	x	x	Fine Arts	Launching into Aviation 2

*See BSD Course Catalog for a full explanation of required courses by grade.

See page 48 for more information.

Bellevue College
CS201 Coding in Python 1 & CS202 Coding in Python 2 = 5 credits

Edmonds Community College
CS201 Coding in Python 1 & CS202 Coding in Python 2 = 5 credits

COLLEGE CREDIT AVAILABLE IN THE BSD STEM – ENGINEERING PATHWAY	PROFESSIONAL CERTIFICATIONS OFFERED IN THE BSD STEM – ENGINEERING PATHWAY	TECHNICAL OR ASSOCIATE DEGREES
<ul style="list-style-type: none"> To be determined 	<ul style="list-style-type: none"> CSWA – Certified SOLIDWORKS Associate CSWA-EDU – Academic Certification CSWA-AM – Additive Manufacturing Certification 	<p>Bellevue College:</p> <ul style="list-style-type: none"> 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 Bioengineering <p>Lake Washington Institute of Technology</p> <ul style="list-style-type: none"> Engineering Technology, AAS-T



TRANSPORTATION

The Transportation career cluster includes the automotive, maritime, aerospace, and railroad industries, all requiring engineers, maintenance technicians, inspectors, and mechanics. This is a technical field with advancing technology and rapidly changing designs. The Seattle – King County region is home to all of these industries that are in need of career minded employees and entrepreneurs. (For more career information see seakingwdc.org, mapyourcareer.org, and onetonline.org)

CURRENT DATA for SEATTLE – KING COUNTY			
NOW	2028	TYPES OF BUSINESSES	TOOLS OF THE TRADE
Businesses: 1,587 Jobs: 56,663 Average Salary: \$79,887	Overall construction job demand: +12% Hot jobs: +32% Aircraft Mechanic & Service Technician +11% Recreation Vehicle Mechanics +9% Mobile Heavy Equipment Mechanics	<ul style="list-style-type: none"> Automotive Services Equipment Maintenance Manufacturing Air Transportation Rail Transportation 	<ul style="list-style-type: none"> Awareness of Safety Rules Communication Attention to Detail Flexibility at a Fast Pace
SAMPLE CAREER PATHWAYS			
Mechanics & Repair Automobile Design Automobile Engineering Diesel Engines	Aviation Mechanics & Repair Marine Mechanics & Repair Sip Engineering Aerospace & Aviation Engineering	Locomotive Engineering Rail Engineering Product Safety Engineering Inspection/Quality Control	

TRANSPORTATION in the BELLEVUE SCHOOL DISTRICT		
COLLEGE CREDIT*	INDUSTRY RECOGNIZED CERTIFICATIONS*	EXTENDED LEARNING & LEADERSHIP OPPORTUNITIES*
College credits available: 2 – 32.5 credits Colleges: Renton Technical College Lake Washington Institute of Technology Shoreline Community College Potential Tuition Savings: \$292 -- \$4,766	<ul style="list-style-type: none"> NATEF ASE – National Institute for Automotive Service Excellence 8 Exams SP2 Safety & Pollution Prevention Certificate 	SkillsUSA <ul style="list-style-type: none"> www.skillsusa.org skillsusawashington.org 
<i>*More information starting on page 48</i>	<i>*See page 51 for more information</i>	<i>*See page 52 for more information</i>

Transportation Courses

AUTOMOTIVE TECHNOLOGY 1

Length/Credit: 1 year - 3 periods; 3.0 CTE credits

Location: Bellevue – WANIC Skills Center (Available to all schools)

Other Info: 2.0 CTE credit and 1.0 Lab Science credit available



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. By the end of the first year, they will complete 4 of the 8 ASE content. This is a nationally certified program through the ASE Education Foundation. 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 Auto Club is expected. Students will work on customer, shop owned and student scheduled vehicles. Students who successfully complete Year 1 may be eligible to apply for Year 2. 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

Location: Bellevue – WANIC Skills Center (Available to all schools)

Other Info: 2.0 CTE credit and 1.0 Lab Science credit available

Prerequisite: Automotive Technology 1



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 Pacific NW College Credit and Lab Science Equivalency credits at Bellevue High School. Leadership opportunities are provided through Skills USA 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. 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.

MECHANIC & REPAIR WORKSITE LEARNING

Prerequisite: Enrollment in or completion of a one-semester Transportation class

Students who have had one semester of a CTE class in the Transportation career pathway, and who are currently employed in a paid position with a local employer in this industry, are eligible to enroll in worksite learning. (No home-based businesses may be used for this credit.) Students can earn .5 credits for 180 hours of paid work or 1.0 credits for 360 hours of paid employment, which is the maximum allowable credit. Required paperwork must be signed off by a parent and the employer and submitted on time to earn credit. This includes monthly calendars verifying the number of hours worked and an employer evaluation completed over the course of the work experience. Each high school has a Work Site Learning Coordinator that will assist students throughout the school year.



TRANSPORTATION CAREER PATHWAY EXAMPLES

MIDDLE SCHOOL COURSES THAT SUPPORT THE TRANSPORTATION PATHWAY	HIGH SCHOOL COURSES -- AUTOMOTIVE MASTER MECHANIC	HIGH SCHOOL COURSES -- ENTREPRENEUR/BUSINESS OWNER
Applied Engineering Design and Production Robotics CS Discoveries	Coding in Python 1 Coding in Python 2 AP Computer Science Principles Automotive Technology 1 Automotive Technology 2	Accounting 1 Accounting 2 Entrepreneurship Business Law Automotive Technology 1 Automotive Technology 2

SAMPLE STUDENT COURSE SCHEDULE FOR AUTOMOTIVE MASTER MECHANIC

				AVAILABLE COLLEGE CREDIT SAMPLE COURSE SCHEDULE
6	ELECTIVE	MATH	ELECTIVE	Bellevue College Coding in Python 1 & 2 (HS Only) = 5 credits AP Computer Science Principles = 5 credits Lake Washington Institute of Technology Automotive Technology 1 OR 2 = 28 credits Renton Technical College Automotive Technology 1 = 2 credits Automotive Technology 2 = 14 credits Shoreline Community College Automotive Technology 1 = 17.5 credits Automotive Technology 2 = 15 credits See page 48 for more information.
7	Physical Education	x	ELECTIVE	
8	Physical Education	x	CS Discoveries	
9	World Language	x	Health	
10	Physical Education	x	Coding in Python 1	
11	Physical Education	x	Health	
12	Fine Arts	x	Coding in Python 2	
			Applied Engineering	
			Design and Production	
			Robotics	
			AP Computer Science Principles	
			Automotive Technology 1	
			Automotive Technology 2	

*See BSD Course Catalog for a full explanation of required courses by grade.

COLLEGE CREDIT AVAILABLE IN THE BSD TRANSPORTATION PATHWAY	PROFESSIONAL CERTIFICATIONS OFFERED IN THE BSD TRANSPORTATION PATHWAY	TECHNICAL OR ASSOCIATE DEGREES
Lake Washington Institute of Technology <ul style="list-style-type: none"> Automotive Technology 1 or 2 -- AUTO 124, 140, 144, 210 = 28 credits Renton Technical College <ul style="list-style-type: none"> Automotive Technology 1 -- AUTC 101 = 2 credits Automotive Technology 2 -- AUTO112, 117 = 14 credits Shoreline Community College* <ul style="list-style-type: none"> Automotive Technology 1 -- AUTOA 111, 112, 114 = 17.5 credits Automotive Technology 2 -- AUTOA 113, 115, 116, 117 = 15 credits (*Must complete both Auto Tech 1 & 2 with 75% or better grade)	<ul style="list-style-type: none"> NATEF ASE -- Automotive Service Excellence* <ul style="list-style-type: none"> Engine Repair Automotive Transmission & Transaxle Manual Transmission & Axels Steering & Suspension Brakes Electrical/Electronic Systems Heat & Air Conditioning Engine Performance (*For more information: www.ase.com) SP2 -- Safety & Pollution Prevention Certificate 	Lake Washington Institute of Technology <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Automotive technology, AAS Ford ASSET, AAS Shoreline Community College <ul style="list-style-type: none"> Automotive Technician, AAS South Seattle College <ul style="list-style-type: none"> Aviation Maintenance Technology, AAS Maritime Academy <ul style="list-style-type: none"> Marine Engineering Technology Certificate

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 the design process, how to 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 pathway options while preparing our students for success in high school and beyond.



MIDDLE SCHOOL HEALTH SCIENCE

MEDICAL DETECTIVES – NEW!!

Location: Tillicum, Chinook

Become medical detectives and solve medical mysteries! Apply experimental design, creative thinking, and problem solving to investigate the inner-workings of the human body, diagnose disease, and improve human health. Students play the role of real-life medical detectives as they collect and analyze medical data, solve medical mysteries through hands-on projects and labs, measure and interpret vital signs, examine nervous system structure and function, and investigate disease outbreaks.

MIDDLE SCHOOL STEM

APPLIED ENGINEERING

Other info: Fulfills middle school CTE or fine arts requirement

This semester-long, hands-on, project-oriented design class introduces STEM (Science, Technology, Engineering, and Math) principles, concepts, and guidelines engaging students in current topics related to industry standards and practices. Using the design process, creativity, and an understanding of materials, machines, and equipment students will solve a variety of technology problems. Students will use a design cycle to solve problems and challenges using the current equipment and facilities available in each school. Students will learn how to utilize a clean room for creative design and a fabrication room for model/prototype development. Participation and completion of Applied Engineering prepares students to collaboratively solve open-ended problems with an engineering and creative design mindset.

DESIGN AND PRODUCTION

Other info: Fulfills middle school CTE or fine arts requirement

This activity-oriented, cutting-edge program shows students how design and technology are used in engineering to solve everyday problems. Students will gain the skills they need to develop, produce, and use products and services. Using the design process, students will solve problems and understand the influence that creative and innovative design has in our lives. Students use industry standard 3D modeling software to draw virtual images of their designs and produce a portfolio displaying 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 design drawing, problem solving, and research 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, Highland

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.

MIDDLE SCHOOL TECHNOLOGY

MEDIA TECHNOLOGY

Location: Tyee, Tillicum, Chinook, Odle

Other info: Fulfills middle school CTE or fine arts requirement

This class is for students interested in exploring art, technology, and the many careers available in the digital art industry. Graphic arts, photography, animation, and videography are some of the art forms covered in the semester. Students will use technology to manipulate images, edit videos, create graphic design products, design games, and apply basic photography skills to a variety of products and academic areas. Students will work individually and in groups to create a wide variety of art 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

Other info: Fulfills middle school CTE or fine arts requirement

Video Production is the art of recording images with a video camera. In this class, students will learn the basics of this art 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 while working in groups to create projects for a variety of purposes and audiences. Students will become aware of assorted multimedia tools that can be used to enhance future art, 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, Chinook, Tillicum

Other info: Fulfills middle school CTE or fine arts requirement

In this project-based class, students work in teams to increase their communication, videography, editing, storytelling, and computer art skills for a variety of audiences and purposes. Video art projects may include filming 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.

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 how computers process information and apply a problem-solving model to help humans address problems and real-world scenarios. Students will learn the basics of HTML and CSS as they create their own website, and the basics of JavaScript as they create their own animations and interactive programs. 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

Other Info: Students who complete both CS 101 Coding in Python 1 and CS 102 Coding In Python 2 are eligible to enroll In CS 202 Coding in Python 2 In high school and can earn college credit.

Other info: Fulfills middle school CTE or fine arts requirement

Coding in Python 2 is an exciting class where students use creativity and the design thinking process to create animation, games, and visual programs. Students have access to professional-quality characters, backgrounds, animations, and sounds to create their programs. This course introduces 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 and creative new contexts. After learning how to create and manipulate these sprites in Python, students will use proper product development processes and the design thinking process to make advanced and impressive programming projects. 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.

COLLEGE CREDIT

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 to be sent to the institute they will be attending. ***In the 2019-2020 school year, BSD students earned 4,475 college credits through Pacific NW College Connections!*** With the average cost of a college credit being \$594, this could be a huge savings!!

COLLEGE CREDIT CLASSES – PACIFIC NW COLLEGE CREDIT



Course Title*	College	College Course Title	Credits
ACCOUNTING 1 and 2 <i>(Must take both classes to receive credit.)</i>	Bellevue College	ACCT 101: Practical Accounting 1 ACCT 135: Business Payroll Tax Accounting	8
ACCOUNTING 3 and 4 <i>(Must take both classes to receive credit.)</i>	Bellevue College	ACCT 225: Survey of Financial & Managerial Accounting	5
ADVANCED CULINARY ARTS	LWIT	CART 115: Food Service Safety & Sanitation CULA 140: Management	6
	Renton Tech	CUL 110 – Fundamentals 1 CUL 180 – Industry Communications & Human Relations	6
ADVANCED DIGITAL MEDIA PRODUCTION <i>(Both semesters)</i>	Bellevue College	DMA 246: Video Fundamentals	5
		DMA 247: Video Implementation	5
ADVANCED MARKETING & ENTREPRENEURSHIP <i>(One year)</i>	Bellevue College	MKTG 299: Individual Studies in Marketing	5
AP COMPUTER SCIENCE <i>(One year)</i>	Bellevue College	CS 210: Fundamentals of Computer Science 1	5
	Edmonds CC	CIS 199: CIS Special Topics	5
AP COMPUTER SCIENCE PRINCIPLES <i>(One year)</i>	Bellevue College	PROG 110: Introduction to Programming	5
	Edmonds CC	CIS 125: Network Workstation	5
AP PHOTOGRAPHY PORTFOLIO/2-D DESIGN	LWIT	DSGN 128: Digital Photography	4
AUTOMOTIVE TECHNOLOGY 1 or 2 <i>(One year)</i>	LWIT	AUTO 124: Maintenance Procedures	28
		AUTO 140: Brake Systems	
		AUTO 144: Suspensions, Steering & Alignment	
		AUTO 210: Engines, Cylinder Blocks & Cooling Systems	
AUTOMOTIVE TECHNOLOGY 1	Renton Technical Shoreline CC	AUTC 101: Safety/Environmental Issues	2 17.5
		AUTOA 111: Electrical Systems	
		AUTOA 112: Braking Systems	
		AUTOA 114: Engine Design & Maintenance	
AUTOMOTIVE TECHNOLOGY 2	Renton Technical	AUTC 112: Maintenance & Light Repair	14
	Shoreline CC	AUTC 117: Electrical Systems	
	Shoreline CC	AUTOA 113: Intro to Steering & Suspension	15
		AUTOA 115: Intro to Automotive Drivetrains	
		AUTOA 116: Intro to Engine Performance Systems	
		AUTOA 117: Intro to Air Conditioning & Heating Systems	
BIOTECHNOLOGY	Shoreline CC	BIOL 107: Biology & Society	5
BUILDING INDUSTRY TECHNOLOGIES - CORE PLUS CONSTRUCTION	Renton Tech	CONST 160: Materials, Methods and Equipment	7
		CONST 250: Project Safety and Accident Prevention	
BUSINESS LAW	Bellevue College	BUS&201: Business Law	5
CHILD DEVELOPMENT	Bellevue College	EDUC&115: Child Development	5
	LWIT	EDUC&115: Child Development	5

CISCO NETWORKING ACADEMY--CCNA	Bellevue College	IT 211: Cisco Networking I IT 212: Cisco Networking II IT 213: Cisco Networking III	15
	Edmonds CC	CIS 171: Cisco Networking I CIS 172: Cisco Networking II CIS 173: Cisco Networking III	15
CISCO – ADVANCED CYBERSECURITY	Bellevue College	SEC 305: Network Security/Firewall <i>(Students must earn the BC credit for CCNA to qualify for this credit)</i>	5
	Edmonds CC	CIS 268: Cisco CCNA Security	5
CODING IN PYTHON 1 & 2 (High school only) <i>(Must take both classes to receive credit.)</i>	Bellevue College	PROG 108: Introduction to Scripting	5
	Edmonds CC	CIS 100: CIS Fundamentals	5
CODING IN PYTHON 3 & 4 <i>(Must take both classes to receive credit.)</i>	Bellevue College	PROG 120: Object Oriented Programming Concepts	5
COMPUTER GRAPHICS 1 or 2	Bellevue College	DMA 103: Digital 2D Design	5
	LWIT	DSGN 121: Vector Illustration 1 w/ Illustrator DSGN 122: Image Editing 1 w/ Photoshop	8
COMPUTER TECHNOLOGY	Bellevue College	IT 101: Introduction to Information Technology	5
	LWIT	BTE 120: Business Computer Management	5
	Edmonds CC	CIS 100: CIS Fundamentals	5
CULINARY ARTS	Renton Tech	CUL 103 – Knife Skills CUL 105 – Culinary Foundations CUL 114 – Salad Bar CUL 118 – Breakfast Cookery CUL 119 – Bakery Basics	15
	LWIT	CART 110: Introduction to Culinary & Baking Arts	10
DIGITAL MEDIA PRODUCTION 1	Bellevue College	DMA 246: Video Fundamentals	5
	Shoreline CC	FILM 256: Video Production 1	5
DIGITAL MEDIA PRODUCTION 2	Bellevue College	DMA 247: Video Implementation	5
	Shoreline CC	FILM 257: Video Production 2	5
ENGINEERING TECHNOLOGY 1 & 2 <i>(Must take both classes to receive credit)</i>	LWIT	ENGR& 100: College Success in Engineering	3
ENTREPRENEURSHIP	Bellevue College	BUS 250: Entrepreneurship	5
HEALTH SCIENCE CAREERS	Bellevue College	NAC 106: Nursing Assistant Foundations NAC 107: Basic Technical Skills NAC 108: Nursing Assistant Clinical Practicum AHE 110: Medical Terminology AHE 120: Safety for Healthcare AHE 130: Human Systems	22
	LWIT	IFAD 162: First Aid/CPR for Health Care Providers NURS 107: Nursing Assistant Theory NURS 108: Nursing Assistant Lab NURS 109: Nursing Assistant Practicum	12
IB BUSINESS AND MANAGEMENT	Bellevue College	MKTG 131: Principles of Professional Selling	5
	Shoreline CC	BUS 120: Principles of Marketing	5
INTERIOR DESIGN AND HOUSING	Bellevue College	INDES 140: Intro to Interior Design	5
INTRODUCTION TO HEALTH CARE	Bellevue College	AHE 100: Intro to Healthcare	5
INTRODUCTION TO HORTICULTURE	LWIT	HORT 299: Horticulture Independent Studies	2
INTRODUCTION TO MARKETING	Shoreline CC	BUS 120: Principles of Marketing	5
	Bellevue College	MKTG 131: Principles of Professional Selling	5
MOBILE GAME DEVELOPMENT	Bellevue College	DMA 113: Digital 3D Design	5
NURSERY & GREENHOUSE OPERATIONS <i>(Year)</i>	LWIT	HORT 299: Horticulture Independent Studies	6
PERSONAL FINANCE	Bellevue College	BUS 102: Personal Money Management BUS 103: Personal Savings BUS 104: Personal Credit BUS 105: Personal Taxes BUS 108: Personal Investment	5

PHOTOGRAPHY 1 or 2	LWIT	DSGN 128: Digital Photography	4
RETAIL MANAGEMENT—STUDENT STORE	Bellevue College	MKTG 135: Principles of Retailing	5
TEACHING ACADEMY 1 or 2 <i>(One year)</i>	Cascadia CC Bellevue College	EDUC 102: Field Experience in Education EDUC&205: Introduction to Education	5 5
TECHNICAL THEATER 1 and/or 2 <i>(One year)</i>	Shoreline CC	DRAMA 207: Theater Production 1 DRAMA 208: Theater Production 2 DRAMA 209: Theater Production 3	6
TELEVISION BROADCASTING <i>(Year-long)</i>	Bellevue College Shoreline CC	DMA 246: Video Fundamentals FILM 257: Video Production 2	5 5
VIDEO GAME & SIMULATION DESIGN	Bellevue College	DMA 113: Digital 3D Design	5
WELDING TECHNOLOGY, DESIGN AND FABRICATION	LWIT	WELD 101: Oxy/Acetylene Cutting & Welding	6

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

**Students must register with PNWCC the year they take the class; credits cannot be awarded retroactively.

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@PNWcollegedcredit.org

Website: www.PNWCollegeCredit.org

COLLEGE CREDIT CLASSES – OTHER



Course Title*	College	College Course Title	Credits
ANATOMY AND PHYSIOLOGY <i>(One year)</i>	Bellevue College in the High School	BIOL 108: Human Biology	6
CULINARY ARTS and ADVANCED CULINARY ARTS <i>(2 years)</i>	Culinary Institute of America	Food Safety (ServSafe) Mathematics (challenge test required)	1.5 1.5

For more information regarding other college credit:

Contact the teacher of each class.

INDUSTRY AND PATHWAY CERTIFICATIONS

Many Career & Technical Education classes offer students the opportunity to earn Industry Recognized Certifications at no cost. Research data shows students who earn industry certifications have higher grade point averages, higher graduation rates, increased post-secondary enrollment, and higher levels of self-confidence. And in industry, professionals with certifications may earn higher salaries and get promoted faster than those employees without certifications. Students must be enrolled in the CTE class to take the certification exams associated with that course.

CERTIFICATION	CLASS
ACP – Adobe Certified Professional Illustrator, InDesign, Photoshop, Premiere Pro, After Effects	Computer Graphics 1 & 2 Photography 1 & 2 AP Photography Portfolio/2-D Design Digital Media Production 1 & 2 Advanced Digital Media Production Television Broadcasting
NATEF - ASE – National Institute for Automotive Service Excellence SP2 – Safety and Pollution Prevention Certification	Automotive Technology 1 & 2
CCNA – Cisco Certified Network Associate	Cisco Networking Academy CCNA
CCNP (3 exams) – Cisco Certified Network Professional	Advanced Cisco – CCNP
CCSP – Cisco Certified Security Professional	Advanced Cisco -- Cybersecurity
NSA CNSS 4011 – National Security Agency & Committee on National Security	Advanced Cisco -- Cybersecurity
CNA – Certified Nursing Assistant	Health Science Careers - WANIC
American Heart Association First Aid/CPR/AED	Introduction to Health Care Building Industry Technologies - Core Plus Construction Welding Technology, Design, & Fabrication Health Science Careers - WANIC
Food Handler’s Permit	Culinary Essentials 2 Culinary Arts Retail Management—Student Store Bakery & Pastry 1 Health Science Careers - WANIC
MOS – Microsoft Office Specialist Word, Word Expert, Excel, Excel Expert, Outlook, Power Point, Access	Digital Communications & Technology Advanced Digital Communications & Technology Accounting 3 & 4
PCEP – Certified Entry-Level Python Programmer Certification The Python Institute	Coding in Python 2
PCAP – Certified Associate in Python Programming Certification The Python Institute	Coding in Python 4
OSHA 10-Hour Construction Industry	Building Industry Technologies - Core Plus Construction Welding Technology, Design, & Fabrication
ParaPro – Paraprofessional Certification	Teaching Academy 1 & 2
ServSafe Food Manager Certification	Advanced Culinary Arts
CRO – Certified Radio Operators The Society of Broadcast Engineers	Radio and Podcast Production
CSWA -- Certified SOLIDWORKS Associate CSWA-EDU Academic Certification CSWA-AM Additive Manufacturing Certification	Engineering Technology 1 & 2
Core Plus Student Certificate -- Construction	Building Industry Technologies - Core Plus Construction
UCU -- Unity Certified User	Mobile Game Development
BASF Plant Science Certification	Nursery & Greenhouse Operations
Principles of Floral Design Certification – Benz School of Floral Design	Floral Design 1 & 2
IATSE Skills Assessment – International Alliance of Theatrical Stage Employees (Local 15)	Technical Theater 1 & 2

CAREER & TECHNICAL STUDENT PROFESSIONAL AND LEADERSHIP ORGANIZATIONS*

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

<p style="text-align: center;">DECA Business & Marketing Pathways</p>	<p style="text-align: center;">FFA Environmental Horticulture Pathway</p>
<p>DECA prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality and management. www.deca.org</p>	<p>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</p>
<p style="text-align: center;">SkillsUSA All Pathways</p>	<p style="text-align: center;">TSA STEM Pathway</p>
<p>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</p>	<p>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.tsaweb.org</p>
<p style="text-align: center;">FCCLA Human Services Pathway</p>	<p style="text-align: center;">HOSA Health Sciences Pathway</p>
<p>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. fcclainc.org</p>	<p>HOSA -- Future Health Professionals, empowers students to become leaders in the global health community through education, collaboration, and experience. www.hosa.org</p>

Examples of Other CTE Leadership Organizations**

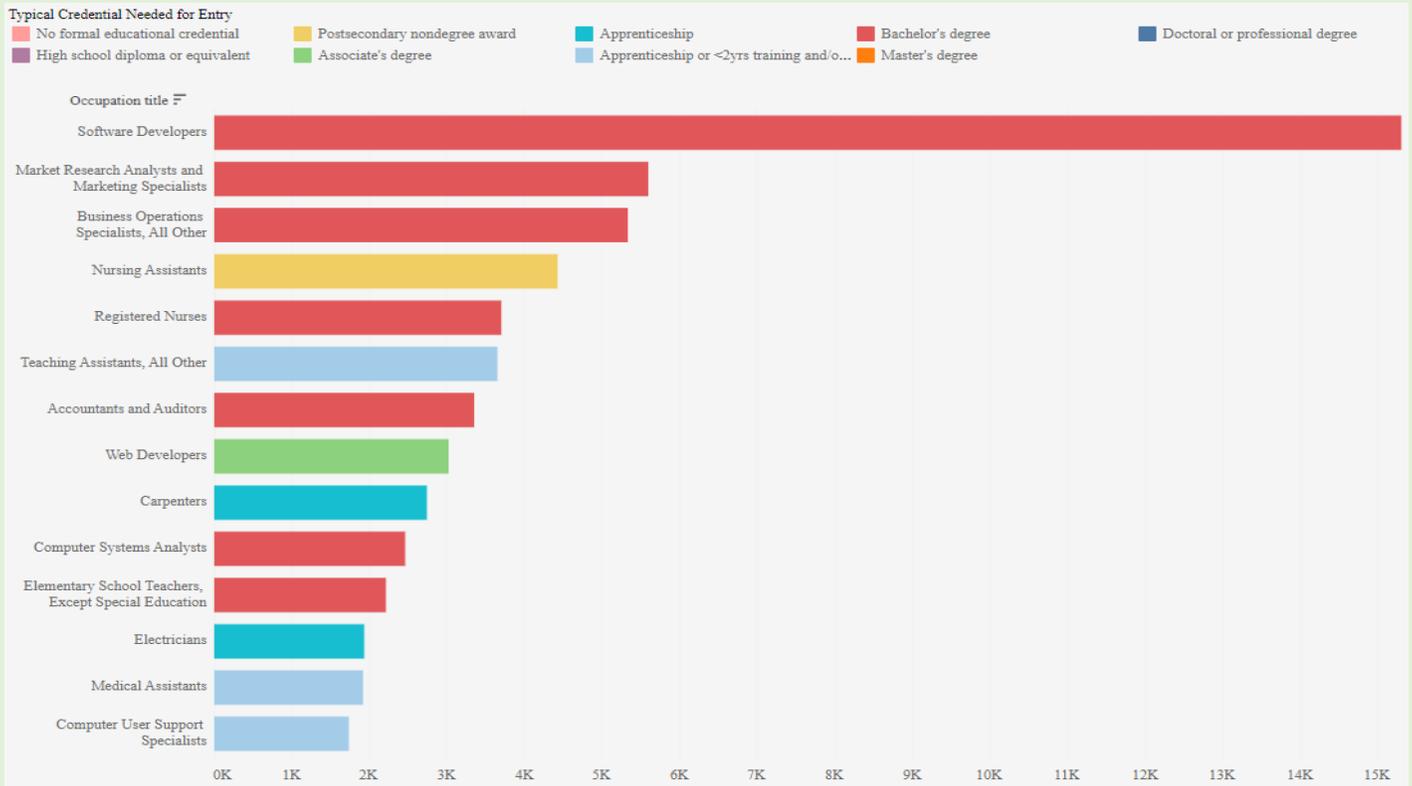
<p style="text-align: center;">Cisco Project Club Information Technology Pathway</p>	<p style="text-align: center;">Teaching Academy Club Education & Training Pathway</p>
<p style="text-align: center;">FIRST Robotics STEM Pathway</p>	<p style="text-align: center;">Technology Club STEM Pathway</p>
<p style="text-align: center;">CTE Leadership Club All Pathways</p>	<p style="text-align: center;">Photography Club Arts, AV Tech. & Communications Pathway</p>
<p style="text-align: center;">ProStart Hospitality & Tourism Pathway</p>	<p style="text-align: center;">National Tech Honor Society Information Technology Pathway</p>
<p style="text-align: center;">Video Production Club Arts, AV Tech. & Communications Pathway</p>	<p style="text-align: center;">Washington State Thespians Arts, AV Tech. & Communications Pathway</p>

*Not all CTSOs and clubs are available in every school.

**Not a complete list of all CTE leadership clubs and organizations.

LOCAL LABOR MARKET SNAPSHOT

Washington State ■ 2019 - 2024



Bellevue School District

Career & Technical Education Pathways

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

*Programs that align to the Top 9 Annual Job Openings for WA

Top 11 Employability Skills

1. Communication Skills
2. Leadership Skills
3. Teamwork Skills
4. Interpersonal Skills
5. Learning/Adaptability Skills
6. Self-management Skills
7. Organizational Skills
8. Computer Skills
9. Problem-solving Skills
10. Open-mindedness
11. Strong work ethic

Source: <https://www.indeed.com/career-advice/resumes-cover-letters/skills-employers-look-for>

Top 9 | WA Annual Job Openings

2019-2024

1. Software Developers
2. Marketing Specialists & Research Analysts
3. Business Operations Specialists
4. Nursing Assistants
5. Registered Nurses
6. Teaching Assistants
7. Accounting & Auditors
8. Web Developers
9. Carpenters

Source: <https://washingtonstem.org/labor-market/>

WA State Largest Employers

(Headquartered in Washington)

	# Of Employees
1. Amazon	1,468,000
2. Costco	304,000
3. Microsoft	221,000
4. Starbucks	138,000
5. Barrett Business Services	121,660
6. Providence Health Services	120,000
7. T-Mobile	75,000
8. WA State Public Schools	68,750
9. Nordstrom	60,000
10. Avanade	50,000

<https://www.zipppia.com/advice/largest-companies-in-washington/>

Career and Technical Education (CTE) Graduation Pathways 2023-2024

Students can complete a CTE course sequence of 2.0 or more credits in one CTE program as a route to graduation. The CTE course sequence must include at least one 0.5 credit course which offers the student the potential of earning dual credit, earning both high school and college credit, OR the potential of earning an industry-recognized certification (IRC). Also, all courses in the CTE course sequence must be taught by a CTE certified teacher. Students who pursue this pathway do not need to meet English and math requirements separately. English and math content are embedded in the CTE pathway, and this pathway meets the purpose of a high school diploma: to declare that a student is ready for success in postsecondary education, gainful employment, and citizenship, and is equipped with the skills to be a lifelong learner (RCW 28A.230.090).

6 CTE GRADUATION PATHWAYS		
Agriculture Sciences	Family & Consumer Sciences	STEM
Business & Marketing	Health Sciences	Skilled & Technical Sciences

AGRICULTURE SCIENCES	
	Credits
Environmental Sustainability	1.0
Introduction to Horticulture [^]	1.0 or .5
Nursery & Greenhouse Operations [^]	2.0
Plant Based Design 1	.5
Plant Based Design 2 [^]	.5
<i>- formerly named Floral Design</i>	
BUSINESS & MARKETING	
	Credits
Accounting 1	.5
Accounting 2 [^]	.5
Accounting 3	.5
Accounting 4 [^]	.5
Personal Finance [^]	.5
Economics	.5
AP Microeconomics/Macroeconomics	1.0
Entrepreneurship [^]	.5
IB Business & Management HL [^]	1.0
IB Business & Management SL [^]	1.0
Business Law [^]	.5
Cisco Networking Academy – CCNA [^]	3.0
Advanced Cisco – CCNP [^]	3.0
Advanced Cisco – Cybersecurity [^]	1.0
AP Computer Science [^]	1.0
AP Computer Science Principles [^]	1.0
CS201 – Coding in Python 1	.5
CS202 – Coding in Python 2 [^]	.5
CS203 – Coding in Python 3	.5
CS204 – Coding in Python 4 [^]	.5
Special Topics in Computer Science	1.0
<i>Web Publishing*</i>	.5
Retail Management – Student Store [^]	.5
Introduction to Marketing [^]	1.0
Advanced Marketing & Entrepreneurship [^]	1.0

FAMILY & CONSUMER SCIENCES	
	Credits
Teaching Academy 1 [^]	2.0
Teaching Academy 2 [^]	2.0
Bakery & Pastry 1 [^]	.5
Culinary Essentials 1	.5
Culinary Essentials 2 [^]	.5
Culinary Arts [^]	3.0
Advanced Culinary Arts [^]	3.0
Independent Living	.5
Child Development [^]	.5
Interior Design & Housing [^]	.5
HEALTH SCIENCES	
	Credits
Anatomy & Physiology [^]	1.0
Biotechnology [^]	1.0
Introduction to Health Care [^]	.5
Health Science Careers [^]	3.0
STEM – SCIENCE, TECHNOLOGY, ENGINEERING AND MATH	
	Credits
<i>Introduction to Engineering 1*</i>	.5
<i>Introduction to Engineering 2*</i> [^]	.5
<i>Introduction to Robotics*</i> [^]	.5
Launching into Aviation 1	.5

[^] indicates a course with a qualifying dual credit or IRC

* indicates course is no longer offered but can be included in the graduation pathway if previously taken

SKILLED & TECHNICAL SCIENCES	
	Credits
Digital Media Production 1 [^]	.5
Digital Media Production 2 [^]	.5
Advanced Digital Media Production [^]	2.0
Radio & Podcast Production [^]	1.0
Television Broadcasting [^]	1.0
Photography 1 [^]	.5
Photography 2 [^]	.5
AP Photography Portfolio/2-D Design [^]	1.0
Video Game & Simulation Design [^]	.5
Mobile Game Development [^]	.5
Costume Design	.5
Technical Theatre 1 [^]	1.0
Technical Theatre 2 [^]	1.0
Woods Technology 1	.5
Woods Technology 2	.5
Building Industry Technologies – Core Plus Construction 1 [^]	3.0
Building Industry Technologies – Core Plus Construction 2 [^]	3.0
Computer Technology [^]	.5
Computer Graphics 1 [^]	.5
Computer Graphics 2 [^]	.5
Metals Technology 1	.5
Metals Technology 2	.5
Welding Technology, Design & Fabrication [^]	2.0
Automotive Technology 1 [^]	3.0
Automotive Technology 2 [^]	3.0

CONTACT INFORMATION

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 valdezj@bsd405.org
Newport High School – Fabian Rios riosf@bsd405.org
Sammamish High School – Vanessa Lopez-Kopp lopezk@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 and registration:

Washington Network for Innovative Careers website: wanic.lwsd.org
Registration questions:
Laurie Stegman, Career & Technical Education Coordinator
425-456-4181
stegmanl@bsd405.org

For more information and questions about Career and Technical Education:

Jess Moyer, Director of Career & Technical Education Programs
425-456-4186
moyerj@bsd405.org

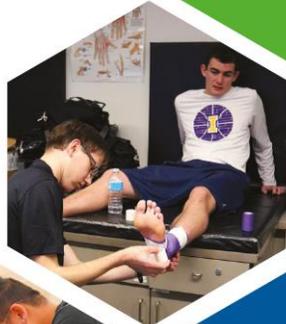


Bellevue School District does not discriminate in any programs or activities on the basis of sex, race, creed, religion, color, national origin, age, veteran or military status, sexual orientation, gender expression or identity, disability, or the use of a trained dog guide or service animal and provides equal access to the Boy Scouts of America and other designated youth groups. The following employees have been designated to handle questions and complaints of alleged discrimination:

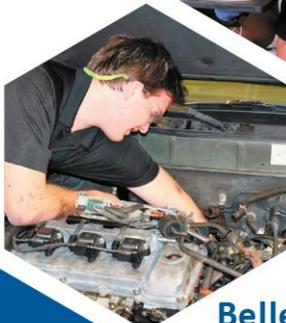
- Civil Rights, Racial Discrimination, and Gender Expression or Identity Discrimination: Civil Rights/Nondiscrimination Compliance Coordinator Nancy Pham, (425) 456-4040 or phamn@bsd405.org
- Sex-based Discrimination, including Sexual Harassment: Title IX Coordinator: Jeff Lowell, (425) 456-4010 or lowellj@bsd405.org
- Disability Discrimination: Section 504/ADA Coordinator: Heather Edlund, (425) 456-4156 or edlundh@bsd405.org

Mailing address for all three: 12111 NE 1st Street, Bellevue, WA 98005.

The Bellevue School District is also committed to providing a safe and civil educational environment that is free from harassment, intimidation, or bullying. Report harassment, intimidation or bullying with Vector Alert or at your school. The Harassment, Intimidation and Bullying Compliance Officer is Nancy Pham, (425) 456-4040 or phamn@bsd405.org.



**PREPARATORY
COLLEGE & CAREER
EDUCATION**
for
High School Students



WANIC Skill Center

Northeast King County Skill Center serving students from these School Districts:



**Bellevue • Everett • Issaquah • Lake Washington
Mercer Island • Northshore • Riverview
Snoqualmie Valley**

Contact us wanic@lwsd.org 425.739.8400

**WASHINGTON NETWORK FOR
INNOVATIVE CAREERS**

The Lake Washington School District does not discriminate on the basis of race, color, national origin, sex, disability, age, gender, marital status, creed, religion, honorably discharged veteran, military status, sexual orientation, gender identity or gender expression, the presence of any sensory, mental or physical disability, or the use of a trained guide dog or service animal by a person with a disability, in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups.