

**Prepare for life  
after high school**

# **Northshore Career & College Readiness FOCUS**

**Plan Your  
Career Pathway**



**All courses meet  
occupational graduation  
requirements**



**2022–2023 Career & College Readiness Department**  
Contact Your Counselor For More Information

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## FIVE VERY GOOD REASONS TO CONSIDER CAREER & COLLEGE READINESS COURSES:

- Expand your educational and career options. Career and College Readiness courses provide CAREER prep and COLLEGE CREDIT! You can go to work, go to college, or both.
- Gain access to up-to-date, future oriented training.
- Career and College Readiness courses challenge you to put your academic knowledge to work in real-life situations.
- Make the most of your college investment. “Pre-test” your career interests through Career and Technical classes.
- Career and College Readiness courses provide skills and habits for a lifetime: Self-confidence. Self-awareness. Good work habits. Practical problem-solving. Technology awareness. Punctuality. Reliability. Teamwork.

## CAREER PATHWAYS & CAREER CLUSTERS:

Career pathways are narrow groupings of occupations and industries within a career cluster. Each career pathway represents the knowledge and skills, both academic and technical, necessary to pursue a full range of career opportunities within a pathway – ranging from entry level to professional career specialties.

Career Clusters identify the area; Northshore School District uses Career Pathways to assist in guiding students in post-education directions. The following table is an example of how clusters and pathways line up:

Career Clusters	Northshore SD Pathways
Arts & Culture Fashion & Design	Arts & Communication
Architecture Business & Finance	Business & Marketing
Architecture Composites Engineering & Manufacturing Computers & Telecom Science & Engineering	STEM: Science, Technology, Engineering, Mathematics
Education & Social Services Law & Government Service Industry Skilled Trades Sports & Recreation	Social Services & Education
Medical & Health	Health Services

## CAREER PATHWAYS & POST HIGH SCHOOL OPTIONS

Students have a number of options for continuing education and training after high school including:

- Four year colleges & universities
- Community colleges
- Technical/Vocational schools
- Military
- Apprenticeships
- Employment

Utilizing career pathways in setting post high school goals and developing a high school program of study guide the student to a successful transition from high school to their 13th year.



## COLLEGE CREDIT

Programs marked with the College Credit ribbon are a combination of academic and professional/technical courses designed to give you a head start on the way to community or technical college. Students can earn college credits and start working on a community/technical college degree while still in high school. These college prep courses have been shown to better prepare students for the workplace. Salaries of employees who have completed community/technical college can be as much as 40% higher than those earned by workers with only a high school diploma.

Ask your Counselor or Career Specialist about details on individual College Credit programs. College Credits listed on page 39.

## SATELLITE PROGRAMS

Courses marked as **SATELLITE PROGRAMS** are available only at the location indicated within the Northshore School District.

Transportation to/from the home high school is provided. Students are allowed and encouraged to drive themselves; carpools are acceptable with parent permission.

Acceptance into a Satellite program is based on an application process with first consideration given to juniors and seniors. Applications can be obtained from Career Counselors at BHS, IHS, NCHS, and WHS and from counselors at SAS and NSN at the time of course registration in late winter/early spring. Applications need to be submitted at the same time as your registration materials or when stated by each individual school. Students are accepted based on their application, teacher recommendations and attendance profile.



## INDUSTRY CERTIFICATION

This symbol demonstrates that the class provides students with the opportunity to prepare for industry recognized certifications.

## CERTIFICATE OF PROFICIENCY

Awarded to students who successfully complete a planned sequence of study in Career and Technical Education.

### THIS CERTIFICATE CAN HELP YOU BY:

1. Providing recognition and proof of completion of a specific program
2. Summarizing the curriculum required of the program, related courses of study, community service and leadership participation
3. Making you more salable to a future employer, especially in job applications/interviews

The certificate may be earned in: Automotive Technology, Business Education, Culinary Arts, Event Planning, Marketing, and Careers in Education.

## WANIC/SKILL CENTER PROGRAMS

WANIC Skill Center offers high quality tuition-free technical and professional training for high school Juniors and Seniors. These year-long, advanced-level Career and Technical Education (CTE) programs are based on rigorous academic and industry standards and prepare students for career and college readiness. WANIC programs provide dual credit opportunities (both high school and college credit) and/or lead to industry certifications. Programs are designed in three period blocks allowing extended time to not only learn the theory of a subject, but to also get authentic hands-on lab experience. All classes earn Occupation Education high school credits and may offer other course equivalents towards high school graduation requirements.

### WANIC 2022-2023 PROGRAM OFFERINGS

**Automotive Technology**  
(Bellevue HS, Bothell HS)\*

**Baking and Pastries** (Bothell HS)\*

**Culinary Arts** (Newport HS)\*

**Dental Careers** (WANIC)

**DigiPen Art & Animation** (DigiPen)\*

**DigiPen Music & Sound Design**

**DigiPen Video Game Programming\***

**Fire & EMS\***

**Health Science Careers – Nursing**

**Medical Careers**

**Sports Medicine\***

**\*Two year program available**

**Washington Network for Innovative Careers**  
(WANIC)

More information: [www.wanic.org](http://www.wanic.org),  
[wanic@lwsd.org](mailto:wanic@lwsd.org),  
425-739-8400

or contact your Career Specialist/Counselor.



## **NSD Career & College Readiness Department**



Did you know that students in the Northshore School District are eligible to earn college credit and still meet graduation requirements while enrolled in many of our Career and College Readiness courses? Students enrolled in a CTE-DUAL CREDIT (formerly TECH PREP) approved course can earn college credit while in high school. CTE-DUAL CREDIT courses are those linked to local technical and community colleges as part of the NSD supported Pacific NW College Credit program. These courses are aligned with Career Pathways that connect to Professional/Technical, AA and/or a Transfer Degree Programs of Study currently offered at the awarding college.

### **HOW TO ENROLL IN CTE DUAL CREDIT**

1. Be currently enrolled in an articulated Career and College Readiness CTE Dual Credit course (formerly TECH PREP) - see list of courses on last page of catalogue.
2. Register for CTE Dual Credit program (formerly TECH PREP) while enrolled in the course: [PNWcollegecredit.org](http://PNWcollegecredit.org)
3. Pay a \$50.00 consortium fee for an unlimited number of classes/credits that school year.
4. Earn a "B" grade or higher in the class!
5. Registration opens December 1st
6. Registration & payment deadline: June 15th

**Don't miss out!**  
**CTE Dual Credit offers  
College Credit for  
your Career & College  
Readiness Courses!**

**REGISTRATION OPENS DEC 1!**

**CTE Dual Credit:**  
\$50 one time fee for as many CTE Dual Credit courses you can take in one calendar school year

Find the tuition for local technical and community colleges at:  
[www.sbctc.edu/paying-for-college/understand-college-costs.aspx](http://www.sbctc.edu/paying-for-college/understand-college-costs.aspx)

**HAVE QUESTIONS?**  
Contact your school's Career Specialist, your Teacher, the NSD Career and College Readiness office, or email [Info@PNWcollegecredit.org](mailto:Info@PNWcollegecredit.org)

Explore a career & earn college credit while in high school PLUS meet your NSD graduation requirements at the same time!

Save hundreds of dollars (or possibly thousands) in tuition, books, transportation, and other fees!

Explore careers requiring the development of related academic skills in Science, Technology, Engineering, and Math (STEM)

Learn challenging material taught in a realistic and hands-on method!



# *Discover the Possibilities*

**CAREER & TECHNICAL EDUCATION  
FOR HIGH SCHOOL  
STUDENTS**

**APPLY at  
WANIC.ORG**

**WASHINGTON NETWORK FOR  
INNOVATIVE CAREERS**

**WANIC Skill Center**

**Automotive Tech ♦ Building Industry Tech**

**Cisco Networking ♦ Culinary ♦ Dental Careers**

**DigiPen Art & Animation ♦ DigiPen Music & Sound Design**

**DigiPen Video Game Programming ♦ Fire & EMS**

**Health Science Careers (Nursing) ♦ Medical Careers ♦ Sports Medicine**

**Contact us: [wanic@lwsd.org](mailto:wanic@lwsd.org) 425.739.8400**

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 including gender expression or identity, 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. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Director of Human Resources, 16250 NE 74th Street, Redmond Washington, 98052, (425) 936-1266.

# Arts & Communications

## BEGINNING COMPUTER APPLICATIONS

Can you type without looking at the keys? Everyone needs computer skills and typing by touch is a must in nearly every career in every field. We'll teach you how to do it in one hour and the rest of the semester will be used for skill development and computer applications formatting. You will also learn some basic Excel, Access, PowerPoint and HTML.

*(Up to 5 college credits available)*

COLLEGE CREDIT

## MICROSOFT APPLICATIONS

Students will become proficient in Microsoft Office 2013 using:

- **Word**—word processing
- **Access**—database
- **Excel**—spreadsheets

Students will have the opportunity to earn their Microsoft Office Specialist Industry Certificate.

*(Up to 5 college credits available)*

COLLEGE CREDIT

## BUSINESS GRAPHICS

- **Photoshop & InDesign**—learn to use special effects, manipulate scanned or digital images, enhance photos, cut people out of photos, recolor photos and much more
- **Advanced PowerPoint**—training using photos, clip art, animation, sound, music and video
- **Create** professional flyers, brochures, wedding or graduation announcements and programs as well as business cards, and letterhead using Adobe InDesign.

*(Up to 5 college credits available)*

COLLEGE CREDIT

## INTRODUCTION TO BUSINESS

Would you like to own your own business some day?

This course introduces students to the following topics: the business environment and forms of ownership; how to manage and lead others; effective business communication in the work place; and how to achieve financial success. Students will gain experience running a virtual retail business (pricing, purchasing, promoting, record keeping, etc.), as well as participate in the creating of their own company, develop a business plan, and present their company to an audience of their peers. Students will learn how to keep the basic financial records of a company throughout the course of a month "on the job". Students will role play employee/customer or employee/manager situations to develop human relation and interpersonal communication skills which are essential to working effectively in an organization.

*(Up to 5 college credits available)*

COLLEGE CREDIT

## MARKETING

Marketing coach's business and life skills that apply to all careers and are performance based skills that everyone needs to demonstrate to become successful in life and in business. This class is perfect for the student who is interested in the way businesses operate and make decisions. Students learn the multi-faceted and integrated nature of problem solving in the business world. They also learn how to market themselves, build confidence, and introduce new products and services in highly competitive and sometimes-international business environments.

DECA is the international student association, with 180,000 members, that all marketing students are encouraged to join. DECA provides students with many opportunities for travel, leadership development, case study competitions, DECA only scholarships, and fun. DECA is the "varsity sport of business". Topics covered are universal in the world of business and apply to both profit and not-for profit organizations.

*(Up to 10 college credits available)*

COLLEGE CREDIT

## PERSONAL AND BUSINESS LAW

This course is designed to give students exposure to the types of law they will encounter every day. Topics covered include criminal and civil issues. An emphasis on case studies, role playing and group work will allow students to use their own life experiences to bring the course material to life and to keep the class relevant.

**Available to Woodinville High School students only.**

## WEB DESIGN

This course is a college level project based course that introduces the basic elements of designing and developing web pages. Students will learn how to plan and design effective web pages for business and personal use. Web pages will be created using HTML5, CSS and Adobe Dreamweaver. Web Design develops four skill areas: Design, Research and Communication, Project Management and Collaboration and Web Authoring Tools.

*(Up to 10 college credits available)*

COLLEGE CREDIT



# Arts & Communications

## INTERIOR DESIGN

If you have a keen interest in art and design, then Interior Design is the course for you! Make the most of all your talents in this project based laboratory course. Challenge yourself every day as you apply the elements and principles of design related to tasks and projects. The course of study will include exploring the appropriate use of: color concepts, floor plans, furniture arrangement and selection, lighting choices, textiles, green materials, as well as kitchen and bathroom design. If you would like to stimulate your personal growth in design and make a positive difference in people's lives, then Interior Design may be just what you're looking for! This course is articulated with Bellevue College for college credit.



**Available to Inglemoor & North Creek High School students only.**

*(Up to 5 college credits available)*

## INDEPENDENT LIVING

In this activity-oriented comprehensive class you will learn skills needed to be independent such as wise money management, which includes learning to invest and positive use of credit, basic meal planning and preparation, and buying consumer goods. You will look at selecting housing and roommates, tenants and/or landlord responsibilities as well as protecting yourself from consumer "rip-offs". Other topics covered include how to buy and insure a car, and how to fill out tax forms.

## LIFESPAN PSYCHOLOGY

This exploratory course is designed to introduce students to the many subjects of psychology. Through class discussion, lectures, projects and presentations students will learn about the human lifespan. Subjects that will be covered include: child development, personality, intelligence, personal and professional relationships, communication, family dynamics, and many other popular psychology topics.

## AP PSYCHOLOGY

**Prerequisite:** None

The Advanced Placement Psychology course is designed to introduce students to the systematic and scientific study of human mental processes and behavior. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology (such as: history and approaches, research methods, biology and behavior, learning and cognition, developmental and abnormal psychology, and social psychology). Students will also learn about careers in psychology and the pathways to additional training. This course is equivalent to an introductory college course in psychology. As a college level course, AP Psychology is best suited for students willing to apply themselves to the study of interesting and sometimes challenging material. Enrolled students will be given the opportunity to take the AP Psychology exam in May for college credit.



## IB PSYCHOLOGY

Psychology is the systematic study of human behavior experience. The overall aim of this course is to give students a deeper understanding of the nature and scope of psychology. Studies of the biological, sociocultural and cognitive perspectives will provide an appreciation of the diverse approaches that have shaped the nature of knowledge and the ways of investigating behavior within the discipline of psychology. In addition to the core perspectives, students will examine specific issues within health and dysfunctional psychology which will provide an opportunity to study according to their own personal interests.

**Available to Inglemoor High School students only.**

## CAD LAB

Students will develop 2D and 3D drafting/modeling skills using CAD software like the Adobe suite, Rhino5 and Autodesk. Once the basics are learned students choose from a variety of projects using 3D printers, plotters and CNC machines to create a physical copy of their work. Project examples include create a 3D model of a product and create the 2D marketing materials to support that product, create a 3D model of a house and 2D floor plans using a plotter, a mechanical design project with moving parts produced in one print on a 3D printer.

**No previous computer experience is required.**

*(Up to 8 college credits available)*



## TV/VIDEO PRODUCTION

This class produces and edits video for web formatting using both computer based and Web 2.0 based software. Podcasting, scripting, storyboarding, concept development and video shooting are practiced and developed.

**Available to Inglemoor High School students only.**

*(Up to 5 college credits available)*



## ANIMATION TECHNOLOGY

This class will teach you the basics of 2D computer animation using the industry standard software Adobe Flash CS 5. Regardless of your ability to draw, you can create simple and complex animations using the unique tools and techniques of this amazing program. Learn frame-by-frame animation and "tweening" techniques. Learn how Flash is used in the development of web pages. Advanced students learn additional features of Flash including interactivity, action scripting and get the opportunity to try out a 3D program.

**Available to Woodinville High School students only.**

# Arts & Communications

## CULINARY ARTS

Would you like to know "Chef secrets" or how to make restaurant quality food? Culinary Arts is the class for you to learn those professional secrets.

This Satellite class is offered to district students who are interested in learning restaurant industry secrets and standards. Students will learn hands on industry experience through food preparation, entry level baking (cookies, quick breads, cakes), cooking methods (grilling, sauté, stir fry) and techniques (knife skills, presentation, service, garnishing). To enhance their culinary experience students will have the opportunity to develop their own restaurant concept and design and produce a menu and menu ideas for their concept. Students will explore culinary careers in the food industry, work with industry professionals, tour food establishments and work with college culinary programs. Culinary Arts is where you learn how to have a successful future career in the food industry. A practical and written exam will be administered as part of this program.

### PREPARE FOR COLLEGE AND A CAREER!

- Earn college credits transferable to varying community colleges
- Become eligible for scholarships
- Earn National Restaurant Association Certification (must complete 2 years of Culinary Arts) \$20.00 fee
- Obtain Washington State Food Workers Permit (\$10.00) and Professional Lab Coat (\$36.00) – fee is the responsibility of the student

## SATELLITE PROGRAM

Bothell High School

(Up to 9 college credits available)

Course also counts for 3rd year lab science credit



## ASL 100/121

Open to 9, 10, 11

This college level course, ASL 100, is the complex and natural existing language used by the Deaf. ASL 100 will introduce students to this visual / gestural language and to the Deaf community. In this class students will learn vocabulary and the grammar of ASL through natural everyday conversation, situations, and activities. Classrooms operate in large and small group settings and often in full immersion. Students must be able to maintain eye contact and be visually focused. Also having the ability to work regularly with recording devices (by uploading and downloading media) for portfolio purposes. If the student meets all the requirements in class with a B grade or above the student can earn 5-college credits through an articulation agreement with both Lake Washington Institute of Technology and/or Seattle Central College. **SCC requires work outside of class.**



## ASL 200/122

ASL 200 expands on vocabulary, depends complex grammatical understanding, functional application, Deaf history, culture and community. Second year will focus more on classifiers, use of spatial referencing, role-shifting, signer's point of view, verb inflections and the Greater Deaf community (agencies serving the Deaf/Hard-of-Hearing). Using dialogues and narratives while continuing their virtual portfolios students will grow in their fluency, prosody, and confidence. If the student meets all the requirements in class with a B grade or above the student can earn 5-college credits through an articulation agreement with both Lake Washington Institute of Technology and/or Seattle Central College. **SCC requires work outside of class.**



## ASL 300/123

ASL 300 continues vocabulary and grammatical structure of the language with storytelling, narratives, and dialogues. While continuing an exposure to Deaf history, culture, and community, students will also explore Deaf folklore, current events and Deaf-related topics, Deaf-Blind community, mock interpreting simulations, poetry, iconic art, and careers with ASL. If the student meets all the requirements in class with a B grade or above the student can earn 5-college credits through an articulation agreement with Seattle Central College. **SCC requires work outside of class.**



## BAKING & PASTRY

In this advanced course, students will learn the baking techniques of mixing, shaping, folding and baking while exploring the science and math behind baking. Students will learn how to successfully make quick breads, decorated cakes, pies, mousses, sauces, custards, frozen desserts, cookies, and confections. In addition, students will be introduced to decorating techniques like sugar and chocolate garnishing. Students will learn in a well-equipped, industry standard kitchen to prepare food for student presentations, school functions and community service events. This course includes classroom instruction and practical lab work in a commercial kitchen. A practical and written exam will be administered as part of this program.

### PREPARE FOR COLLEGE AND A CAREER!

- Earn college credits to LWIT
- Become eligible for scholarships
- Obtain Washington State Food Workers Permit (\$10.00) and Professional Lab Coat (\$36.00) – fee is the responsibility of the student

## SKILLS CENTER PROGRAM

Bothell High School

(Up to 9 college credits available)

Course also counts for 3rd year lab science credit



# Business & Marketing

## BEGINNING COMPUTER APPLICATIONS

Can you type without looking at the keys? Everyone needs computer skills and typing by touch is a must in nearly every career in every field. We'll teach you how to do it in one hour and the rest of the semester will be used for skill development and computer applications formatting. You will also learn some basic Excel, Access, PowerPoint and HTML.

*(Up to 5 college credits available)*



## MICROSOFT APPLICATIONS

Students will become proficient in Microsoft Office 2013 using:

- **Word**—word processing
- **Access**—database
- **Excel**—spreadsheets

Students will have the opportunity to earn their Microsoft Office Specialist Industry Certificate.

*(Up to 5 college credits available)*



## BUSINESS GRAPHICS

- **Photoshop & InDesign**—learn to use special effects, manipulate scanned or digital images, enhance photos, cut people out of photos, recolor photos and much more
- **Advanced PowerPoint**—training using photos, clip art, animation, sound, music and video
- **Create** professional flyers, brochures, wedding or graduation announcements and programs as well as business cards, and letterhead using Adobe InDesign.

*(Up to 5 college credits available)*



## MICROSOFT OFFICE CERTIFICATION

Students may become an "expert" in Word and Excel working independently using college level materials. Upon successful completion of this course, students are prepared to take the Microsoft Industry Standard certification tests and become more competitive in today's job market.

*(Up to 5 college credits available.)*



## IB COMPUTER SCIENCE WITH JAVA

This course meets the requirements of the IB Computer Science (SL) curriculum, but you do not have to be an IB student to take this course. Programming topics cover fundamental Java language constructs, including objects, classes, methods, parameter passing, primitive and reference types, and use of the Java class libraries. In addition, students will study the systems life cycle, software development and computer systems fundamentals.

**Inglemoor High School**

*(Up to 5 college credits available)*



## MARKETING

Marketing coach's business and life skills that apply to all careers and are performance based skills that everyone needs to demonstrate to become successful in life and in business. This class is perfect for the student who is interested in the way businesses operate and make decisions. Students learn the multi-faceted and integrated nature of problem solving in the business world. They also learn how to market themselves, build confidence, and introduce new products and services in highly competitive and sometimes international business environments. DECA is the international student association, with 180,000 members, that all marketing students are encouraged to join. DECA provides students with many opportunities for travel, leadership development, case study competitions, DECA only scholarships, and fun. DECA is the "varsity sport of business". Topics covered are universal in the world of business and apply to both profit and not-for profit organizations.

*(Up to 10 college credits available)*



## MARKETING MANAGEMENT

This class is designed for seniors who have not had the opportunity to take marketing and want to improve his/ her skills in the management of training, hiring, firing, organization, controlling, motivating, and implementing management decisions.

## ACCOUNTING (BEGINNING/ADVANCED)

Accounting is essential to succeeding in today's highly competitive society. This course is designed to acquaint students with the steps of the accounting cycle in a business, how to record financial information, and prepare the records needed to maintain a business. The course focuses on traditional accounting methods and the use of accounting software. Accounting is the Language of Business.

**Available to Bothell High School students only.**

*(Up to 10 college credits available)*



# Business & Marketing



## AP COMPUTER SCIENCE A

**Prerequisite:** Successful completion of, or concurrently enrolled in, Algebra II

AP Computer Science is both a college prep course for potential computer science majors and a foundation course for students planning to study in other technical fields such as engineering, physics, and chemistry. Learn to design and implement computer programs (JAVA language) that solve problems relevant to today's society. Students will apply programming tools, programming style, computer science theory, algorithm design, and documentation to solve complex problems through hands on experiences and examples. This course is designed to prepare students to take the College Board AP computer science exam in the Spring.  
*(Up to 5 college credits available)*



## AP COMPUTER SCIENCE PRINCIPLES

**Prerequisite:** Completion of Geometry or instructor permission

In this course, students will learn the fundamentals of computing – including problem solving, working with data, understanding the internet, cybersecurity, and programming. Students completing this course should leave with a broadened understanding of computer science for use in diverse majors and careers. Those wanting to earn AP credit will submit two “through-course performance tasks” to the College Board for grading, and will take a multiple-choice end-of-year exam. This course is not a prerequisite for AP Computer Science A, but AP Computer Science A is the logical follow-up class for students inspired to study computer science more deeply after completing this class.

## PERSONAL FINANCE

Cover the basics of personal finance including: long term and short term financial planning, budgeting, managing expenses, investments, insurance, credit management, retirement planning and tax planning. Investments include stocks, bonds, mutual funds and real estate are discussed in detail. Students will learn a variety of ways to research investments. (Semester class)  
*(Up to 5 college credits available)*



## IB BUSINESS & MANAGEMENT

Topics covered include business and management, human resources, accounts and finance, marketing, operations, and business strategy. The student will develop a solid foundation of business theory and how business strategy is created across key organizational departments in a variety of US and International business environments. The student will demonstrate mastery of business and management concepts through projects, solving real world case studies, and developing a research commentary that will provide future oriented solutions that “real” business decision makers can use. (Course may be repeated for credit)



This class is associated with DECA which provides opportunities for travel, leadership, fun and scholarships.  
**Available to Inglemoor High School students only.**  
*(Up to 5 college credits available)*

## CSE 163 INTERMEDIATE DATA PROGRAMMING

This advanced, yearlong CiHS course will offer students the ability to get UW in the High School credit (4) as it follows the UW CSE 163 curriculum. Students will spend the first part of the course learning Python with an emphasis on class structure, reading files, data structures (lists, dictionaries, sets and data frames) and data analysis. Students will learn code complexity and how to efficiently work with different types of data: tabular, text, images, geo-spatial. The class will use an ecosystem of data science tools including Jupyter Notebook and various data science libraries including scikit image, scikit learn, and Pandas data frames which will be leveraged to execute data visualization, Machine Learning and data analysis. Prerequisites: AP CS A. Only students who meet this prerequisite will be permitted to take the course, even if only for high school credit.



## SATELLITE PROGRAM

North Creek High School, Period 1  
*(Up to 4 college credits available)*

## INDEPENDENT LIVING

In this activity-oriented comprehensive class you will learn skills needed to be independent such as wise money management, which includes learning to invest and positive use of credit, basic meal planning and preparation, and buying consumer goods. You will look at selecting housing and roommates, tenants and/or landlord responsibilities as well as protecting yourself from consumer “rip-offs”. Other topics covered include how to buy and insure a car, and how to fill out tax forms.

# Business & Marketing

## INTRODUCTION TO COMPUTER SCIENCE PRINCIPLES

**Prerequisite:** Successful completion of Algebra I or instructor permission

This introductory survey course based on the UC Berkeley CS10 course offers students a hands-on introduction to computer science that surrounds us every day. This course is far more than just learning to program. We'll focus on some of the "Big Ideas" in computing, such as abstraction, design, recursion, concurrency, simulation, and the limits of computation. We'll show some beautiful applications of computing that have changed the world, talk about the history of computing, and where it will go in the future. This is a semester program.

## AP PSYCHOLOGY

**Prerequisite:** None

The Advanced Placement Psychology course is designed to introduce students to the systematic and scientific study of human mental processes and behavior. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology (such as: history and approaches, research methods, biology and behavior, learning and cognition, developmental and abnormal psychology, and social psychology). Students will also learn about careers in psychology and the pathways to additional training. This course is equivalent to an introductory college course in psychology. As a college level course, AP Psychology is best suited for students willing to apply themselves to the study of interesting and sometimes challenging material. Enrolled students will be given the opportunity to take the AP Psychology exam in May for college credit.



## IB PSYCHOLOGY

Psychology is the systematic study of human behavior experience. The overall aim of this course is to give students a deeper understanding of the nature and scope of psychology. Studies of the biological, sociocultural and cognitive perspectives will provide an appreciation of the diverse approaches that have shaped the nature of knowledge and the ways of investigating behavior within the discipline of psychology. In addition to the core perspectives, students will examine specific issues within health and dysfunctional psychology which will provide an opportunity to study according to their own personal interests.

**Available to Inglemoor High School students only**

## LIFESPAN PSYCHOLOGY

This exploratory course is designed to introduce students to the many subjects of psychology. Through class discussion, lectures, projects and presentations students will learn about the human lifespan. Subjects that will be covered include: child development, personality, intelligence, personal and professional relationships, communication, family dynamics, and many other popular psychology topics.

## RETAIL OPERATIONS/STUDENT STORE

**Prerequisite:** Jr/Sr standing, complete application and Teacher permission

This is a unique course involving on-campus work experience in a "real" retail business. Student employees are trained to operate electronic cash registers and to handle the following jobs: advertising, purchasing, inventory control, record-keeping, food preparation, stock maintenance, clothing sales, store maintenance and cleaning. Courtesy, service, honesty, confidence and professionalism identify the successful student working in the store.

DECA is the international student association, with 180,000 members, that all marketing students are encouraged to join. DECA provides students with many opportunities for travel, leadership development, case study competitions, DECA only scholarships, and fun. DECA is the "varsity sport of business". Topics covered are universal in the world of business and apply to both profit and not-for-profit organizations.  
*(Up to 5 college credits available)*



## WEB DESIGN

This course is a college level project based course that introduces the basic elements of designing and developing web pages. Students will learn how to plan and design effective web pages for business and personal use. Web pages will be created using HTML5, CSS, and Adobe Dreamweaver. Web Design develops four skill areas: Design, Research and Communication, Project Management and Collaboration and Web Authoring Tools.  
*(Up to 10 college credits available)*



## COMPUTER SCIENCE WITH C#.NET

Students use the C# programming language to write programs that run in the Microsoft.NET environment. This course emphasizes good overall program design and effective use of objects. Topics include fundamental language constructs, classes, exception handling, interfaces and inheritance. Students end the year with a multi-week project where they create, test, and document a major program of their own design.  
*(Up to 10 college credits available)*



# Business & Marketing

## INTRODUCTION TO BUSINESS

Would you like to own your own business some day? This course introduces students to the following topics: the business environment and forms of ownership; how to manage and lead others; effective business communication in the work place; and how to achieve financial success. Students will gain experience running a virtual retail business (pricing, purchasing, promoting, record-keeping, etc.), as well as participate in the creating of their own company, develop a business plan, and present their company to an audience of their peers. Students will learn how to keep the basic financial records of a company throughout the course of a month "on the job". Students will role play employee/customer or employee/manager situations to develop human relation and interpersonal communication skills which are essential to working effectively in an organization.

*(Up to 5 college credits available)*



## PERSONAL AND BUSINESS LAW

This course is designed to give students exposure to the types of law they will encounter every day. Topics covered include criminal and civil issues. An emphasis on case studies, role playing and group work will allow students to use their own life experiences to bring the course material to life and to keep the class relevant.

**Available to Woodinville High School students only**

*(Up to 5 college credits available)*



## ADVANCED PLACEMENT (AP) ECONOMICS

Have you ever wondered why there are not enough student parking spots or why they are so expensive? If so, AP Economics is the class for you. AP Economics is a challenging and exciting course for any motivated student. Microeconomics (1st semester), the study of how households and firms make decisions in the marketplace, and Macroeconomics (2nd semester), the study of the entire economy including inflation, unemployment, and economic growth. In addition, students will be encouraged (optional) to take the AP tests (Micro/Macro) in the spring.

## BUSINESS MANAGEMENT

**Prerequisite:** Intro to Business suggested, not required.

Business Management introduces students to the business environment and forms of ownership; how to manage and lead others, effective business communication in the work place, and entrepreneurship.

As entrepreneurs starting their own business, students will find a location for their business, choose a form of ownership, hire and supervise employees, find and keep customers, and use insurance to manage risk. Students will be challenged to read resumes critically and choose the best people for their business. Students will be engaged with management challenges such as labor shortages, strikes, problem employees, and industrial accidents. In addition, students will read and role play situations from the One Minute Manager, one of the best selling management books in history, which teaches the fundamental secrets of effective goal setting, praising, and reprimanding.

**Available to Bothell High School students only.**

## CULINARY ARTS

Would you like to know "Chef secrets" or how to make restaurant quality food? Culinary Arts is the class for you to learn those professional secrets. This Satellite class is offered to district students who are interested in learning restaurant industry secrets and standards. Students will learn hands on industry experience through food preparation, entry level baking (cookies, quick breads, cakes), cooking methods (grilling, sauté, stir fry) & techniques (knife skills, presentation, service, garnishing). To enhance their culinary experience students will have the opportunity to develop their own restaurant concept and design and produce a menu and menu ideas for their concept. Students will explore culinary careers in the food industry, work with industry professionals, tour food establishments and work with college culinary programs. Culinary Arts is where you learn how to have a successful future career in the food industry! A practical and written exam will be administered as part of this program.

**PREPARE FOR COLLEGE AND A CAREER!**

- Earn college credits transferable to varying community colleges
- Become eligible for scholarships
- Earn National Restaurant Association Certification (must complete 2 years of Culinary Arts) \$20.00 fee
- Obtain Washington State Food Workers Permit (\$10.00) and Professional Lab Coat (\$36.00) – fee is the responsibility of the student



## SATELLITE PROGRAM

Bothell High School

*(Up to 9 college credits available)*

*Course also counts for 3rd year lab science credit*

## BAKING & PASTRY

In this advanced course, students will learn the baking techniques of mixing, shaping, folding and baking while exploring the science and math behind baking. Students will learn how to successfully make quick breads, decorated cakes, pies, mousses, sauces, custards, frozen desserts, cookies, and confections. In addition, students will be introduced to decorating techniques like sugar and chocolate garnishing. Students will learn in a well-equipped, industry standard kitchen to prepare food for student presentations, school functions and community service events. This course includes classroom instruction and practical lab work in a commercial kitchen. A practical and written exam will be administered as part of this program.

**PREPARE FOR COLLEGE AND A CAREER!**

- Earn college credits to LWIT
- Become eligible for scholarships
- Obtain Washington State Food Workers Permit (\$10.00) and Professional Lab Coat (\$36.00) – fee is the responsibility of the student



## SKILLS CENTER PROGRAM

Bothell High School

*(Up to 9 college credits available)*

*Course also counts for 3rd year lab science credit*

# Business & Marketing

## FINANCE

**Open to Grades:** 10, 11, 12 (Sophomore students can only take this course to meet occupational education or elective credit).



**Prerequisite:** \*For the class of 2013 and beyond- if the course is being taken to meet 3rd year math option, student must have previously earned one credit in Algebra 1 or Algebra 1 equivalent course and have earned one credit in Geometry or are concurrently enrolled in Geometry and the 3rd year math option course.

Now is the time to start understanding finance in mathematical terms and gain confidence in your ability to manage money. This course is designed to build on your prior math knowledge while taking you step by step through strategies that will help you learn the time value of money. There is heavy emphasis on credit card and interest rates associated with them. You will learn how to evaluate the best cell phone contract and will utilize various expense management tools. Students will learn how to build a business plan by knowing costs, profits, and break even points, and how to buy, sell, trade, and analyze stocks. Students will learn how to set up and manage checking and savings accounts, estimate and analyze loans, and more! This is a year long course.

*(Up to 5 college credits available)*

*This course meets 3rd year math requirements as a Career Pathway Option for class of 2013 and beyond. Students will need to meet with their counselors to complete the registration, parent conference, and sign off requirements prior to signing up for this course as a 3rd year math option.*



## AUTO TECHNOLOGY – MORNING OR AFTERNOON (SKILL CENTER PROGRAMS)



**Length / Credit:** Morning: Full Year / 3 Consecutive Periods (1,2,3) / 3.0 Credits

Afternoon: Full Year / 3 Consecutive Periods (4,5,6) / 3.0 Credits

**Grades:** Available to: 10, 11th & 12th graders

**Location:** BOTHELL HIGH SCHOOL (Satellite program – open to all NSD students)

**Prerequisite:** Application, interview and acceptance

**Fees:** Students can purchase personalized shop shirts (2 shirts ~\$40 optional) and are required to join SkillsUSA ~\$16

**Diploma Category:** Career & Technical Education

**Other Info:** Up to 26 Tech Prep college credits available if a grade of B or better is earned

Designed as a two- or three-year course of study. Each program meets 3 hours a day for the entire year. This gives students a “real world” experience of an automotive career, including a significant amount of vehicle diagnosis, maintenance and repair. Both AM and PM programs are open to 10-12th graders taking Auto Tech 1 or Auto Tech 2 as AM and PM courses are a combination of grades and levels.

- Students learn to work individually and in small groups.
- Student's progress at their own rate.
- Juniors can participate in paid, manufacturer-sponsored summer internships
- Scholarship opportunities through competitions

## CROSS CREDITING AVAILABLE!

**Credits available for the program include (to be decided upon by consensus with counselor/parent/guardian):**

- CTE
- 11th or 12th grade ELA
- 11th and 12th grade lab science
- Elective

**Upon successful completion of both years, students shall be awarded:**

- Certificate of Proficiency
- Multiple certifications available throughout program

*Note: As an ASE-certified training program, opportunities for advanced placement in post-secondary training programs are available. Students completing this program are given preference at Shoreline Community College's manufacture-sponsored programs.*

## SKILLS CENTER PROGRAM

Bothell High School

*(Up to 26 college credits available)*

Courses also count for either ELA or 3rd year lab science credit

# Health Services

## SPORTS MEDICINE/ATHLETIC TRAINING

Students in this course develop and apply skills connected to different careers within the field of sports medicine and athletic training. The course is structured with both classroom and applied learning/internship components working under the supervision of the certified athletic trainer with high school sports teams. The standards for this course are based upon the National Athletic Trainers' Association six domains of responsibility/education, and the Career and Technical Education Therapeutic and Sports Medicine competencies strands.

**SATELLITE PROGRAM:** Bothell High School  
(Up to 15 college credits available)



## ADVANCED SPORTS MEDICINE/ATHLETIC TRAINING

**Prerequisite:** Beginning Sports Medicine/Athletic Training, Human Physiology, Nursing, or related courses as approved by the instructor

This course builds on Beginning Sports Medicine/Athletic Training as students will focus more on how to evaluate and rehabilitate specific sports injuries. They will also learn about the psychological aspects of sports injury, sports nutrition, and sport pharmacology. Students enrolled are required to obtain 60 hours of athletic training experience and complete a clinical internship at a local healthcare facility (hospital, physical therapy clinic, high school, college or professional training room, massage therapy clinic, chiropractic clinic, fire dept, fitness center, dental office, dietitian/nutrition center). Students will also participate in the Washington Career & Technical Sports Medicine State competition held in the Spring.

**SATELLITE PROGRAM:** Bothell High School  
(Up to 10 college credits available)



## INDEPENDENT LIVING

In this activity-oriented comprehensive class you will learn skills needed to be independent such as wise money management, which includes learning to invest and positive use of credit, basic meal planning and preparation, and buying consumer goods. You will look at selecting housing and roommates, tenants and/or landlord responsibilities as well as protecting yourself from consumer "rip-offs". Other topics covered include how to buy and insure a car, and how to fill out tax forms.

## BIOTECHNOLOGY

Biotechnology is a course designed to introduce students to the fundamentals of biology (cells, genetics, evolution and ecology) with a focus on current biotechnology research and modern laboratory technology. In addition to introductory biology, students will have the opportunity to engage in topics around bioethics, genetic engineering, genetic testing, infectious diseases and genetically modified organisms. Students will also be learning and applying biotechnology lab practices and will be exposed to career opportunities in the biotechnology and biomedical field. Biotechnology is an exciting, but challenging course best suited for students who are seriously interested in pursuing careers in the scientific medical field. Students that earned a B or better in 8th grade science are best prepared for this course.

## ADVANCED BIOTECHNOLOGY

**Prerequisite:** Successful completion of Biology or Biomedical Science 1.

This course is a continuation of biotechnology. The main focus of this course will be a continuation of biotechnology laboratory skills, DNA manipulation, independent experimentation, applied biotechnology to environmental challenges, and further exploration of careers in biotechnology and biomedical fields. In addition, students will work with industry mentors to complete a culminating project that will be showcased at the annual Northwest Association of Biomedical Research Bioexpo competition. A field trip to explore the University of Washington Medical Center (depending on space availability) will also take place earlier in the year, as well as field trips to other biotech labs.

(Up to 5 college credits available)



## IB BIOLOGY I (HL) (IBS103)

**Prerequisite:** Junior/Senior standing, Pre- IB Chemistry to be taken in the 10th grade or completion of both Biology & Chemistry. As space permits, seniors with exceptional science backgrounds may enroll in IB Biology I after obtaining instructor and IB Coordinator permission. 1 year

**Grade Requirements:** Tests (objective, essay, lab), written assignments, and laboratory work as reflected in the development of a student portfolio and logbook

IB Biology HL, one of the Experimental Sciences (also called Group 4 Programs on the IB hexagon) is the scientific study of living organisms. It is a rigorous, lab-based (25 percent of our time), pre-university course of study. Our textbook is used in many college biology courses. In Year 1, we focus on the underlying similarities among living things (cells, biochemistry, metabolism, molecular biology, plant science, and ecology), including genetic engineering. In addition, this course provides students with the opportunity to explore career options in the biotechnology field & offers technology experiences applicable to the fields of medicine, biomedical research, and clinical testing.

**Available to Inglemoor High School students only.**

## IB BIOLOGY II (HL) (IBS155)

**Prerequisite:** Successful completion of first-year IB Biology I. As space permits, seniors with exceptional science backgrounds may enroll in IB Biology II after obtaining instructor and IB Coordinator permission. 1 year

**Grade Requirements:** Tests (objective, essay, lab), written assignments, and laboratory work as reflected in the continuation of a student portfolio and logbook initiated in IB Bio I

The second year of a two-year course. We examine biological diversity (genetics, evolution, human physiology, and our "option": neurobiology and behavior) as well as PCR and gel electrophoresis. Time will also be spent in preparation for the IB Biology examination in May. In addition, this course provides students with the opportunity to explore career options in the biotechnology field & offer technology experiences applicable to the fields of medicine, biomedical research, and clinical testing

**Available to Inglemoor High School students only.**

# Health Services

## AP PSYCHOLOGY

**Prerequisite:** None

The Advanced Placement Psychology course is designed to introduce students to the systematic and scientific study of human mental processes and behavior. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology (such as: history and approaches, research methods, biology and behavior, learning and cognition, developmental and abnormal psychology, and social psychology). Students will also learn about careers in psychology and the pathways to additional training. This course is equivalent to an introductory college course in psychology. As a college level course, AP Psychology is best suited for students willing to apply themselves to the study of interesting and sometimes challenging material. Enrolled students will be given the opportunity to take the AP Psychology exam in May for college credit.



## LIFESPAN PSYCHOLOGY

This exploratory course is designed to introduce students to the many subjects of psychology. Through class discussion, lectures, projects and presentations students will learn about the human lifespan. Subjects that will be covered include: child development, personality, intelligence, personal and professional relationships, communication, family dynamics, and many other popular psychology topics.

## IB PSYCHOLOGY

Psychology is the systematic study of human behavior experience. The overall aim of this course is to give students a deeper understanding of the nature and scope of psychology. Studies of the biological, sociocultural and cognitive perspectives will provide an appreciation of the diverse approaches that have shaped the nature of knowledge and the ways of investigating behavior within the discipline of psychology. In addition to the core perspectives, students will examine specific issues within health and dysfunctional psychology which will provide an opportunity to study according to their own personal interests.

**Available to Inglemoor High School students only.**

## BEGINNING COMPUTER APPLICATIONS

Can you type without looking at the keys? Everyone needs computer skills and typing by touch is a must in nearly every career in every field. We'll teach you how to do it in one hour and the rest of the semester will be used for skill development and computer applications formatting. You will also learn some basic Excel, Access, PowerPoint and HTML.

*(Up to 5 college credits available)*



## MICROSOFT APPLICATIONS

Students will become proficient in Microsoft Office 2013 using:

- **Word**—word processing
- **Access**—database
- **Excel**—spreadsheets

Students will have the opportunity to earn their Microsoft Office Specialist Industry Certificate.

*(Up to 5 college credits available)*



## FOOD SCIENCE, DIETETICS, NUTRITION

The food science industry is one of the larger industries in the United States with many career & job opportunities offered throughout the food system. Students will learn the knowledge, skills and practices required for careers in food science, dietetics, and nutrition. The course focuses on the relationship between food consumption, health and human development. Science is integrated throughout the course in such experiments as caramelization of sugars and starches, the production and growth of yeast, or the effects of temperature on chocolate. Students may study dietetic topics such as effects of antioxidants on humans, the shelf life of food products and the negative & positive effects of bacteria on food. Students will work in teams, individually and with partners to prepare and conduct food experiments to interpret, predict, and evaluate food and food experiments.

## FOODS AND NUTRITION

This class is designed to stimulate interest in planning, preparation and appreciation of healthy foods. This class provides a look into nutritional needs, safety, sanitation practices, and use and care of kitchen equipment providing a framework for the kitchen experiences in basic food preparation. Students will study basic nutritional guidelines, which will then be applied to menu planning and cooking skills. Learn to make everything from pies to pad Thai! Emphasis will be given in developing positive attitudes for appreciation of nutritional, good tasting foods.

*(Up to 3 college credits available)*



## INTRODUCTION TO BUSINESS

Would you like to own your own business some day?

This course introduces students to the following topics: the business environment and forms of ownership; how to manage and lead others; effective business communication in the work place; and how to achieve financial success. Students will gain experience running a virtual retail business (pricing, purchasing, promoting, record-keeping, etc.), as well as participate in the creating of their own company, develop a business plan, and present their company to an audience of their peers. Students will learn how to keep the basic financial records of a company throughout the course of a month "on the job". Students will role play employee/customer or employee/manager situations to develop human relation and interpersonal communication skills which are essential to working effectively in an organization.

*(Up to 5 college credits available)*



# Health Services

## MEDICAL PROFESSIONALS ACADEMY (HEALTH SCIENCE CAREERS)

This intensive course of study introduces students to a variety of careers in the health care industry with emphasis on hands-on, patient-oriented careers such as physician and nurse. At the end of the year students are qualified for the Nursing Assistant State exam. Nursing Assistant is an entry position in a medical field and will allow you to submerge into the healthcare world right after graduation.



### INSTRUCTION INCLUDES:

- Health care field career exploration
- Anatomy and physiology
- Medical terminology
- Pathophysiology and clinical manifestations
- Infection control
- Preventative & restorative care
- Patient care
- Electronic charting
- Clinical internship
- CPR and First Aid Certification
- HIV Certification
- Communication with a patient and care team

Classes meet at Woodinville High School for three consecutive periods in the morning or afternoon with an additional 7 days of clinical internship at skilled nursing facilities, 8 hours shifts on Saturdays through the school year. Schedule to be determined at the beginning of each school year. Clinical shadowing is at Harborview Medical Center at the end of the year with school transportation provided.

The state NAC certification exam is conducted at the end of the school year. The fee for the exam is \$156.00 which includes the Department of Health license administered to those who successfully pass the exam. Students are employable as Certified Nursing Assistant on the next day. Historically, the employability of our students is about 100%. This program also can be a benefit for those who might care for their aging parents or disabled family members. Other expenses: Scrubs - \$25, white shoes, class personalized sweatshirt - \$35 and a wristwatch. Stethoscope is optional as we have them in class. All fees are fully refundable by future employer if a graduate gets a job within one year of completion of the program. This program has a partnership with the UW Bothell Nursing Program with a fast track Bachelor of Science in Nursing program as well as with the Health Science Department with pre-med, public and global health tracks. Students are actively involved in HOSA - National Health Occupation Students of America organization, successfully competing in multiple categories on a state and national level.

**High School credits:** 1.0 lab science, 2.0 occupational, and 0.5 senior health credits.

**College credit:** Through Bellevue College, which are fully transferable to any other college or university.

**SATELLITE PROGRAM** Woodinville High School  
(Up to 24 college credits available)



### ASL 100/121

Open to 9, 10, 11

This college level course, ASL 100, is the complex and natural existing language used by the Deaf. ASL 100 will introduce students to this visual / gestural language and to the Deaf community. In this class students will learn vocabulary and the grammar of ASL through natural everyday conversation, situations, and activities. Classrooms operate in large and small group settings and often in full immersion. Students must be able to maintain eye contact and be visually focused. Also having the ability to work regularly with recording devices (by uploading and downloading media) for portfolio purposes. If the student meets all the requirements in class with a B grade or above the student can earn 5-college credits through an articulation agreement with both Lake Washington Institute of Technology and/or Seattle Central College. **SCC requires work outside of class.**



### ASL 200/122

ASL 200 expands on vocabulary, depends complex grammatical understanding, functional application, Deaf history, culture and community. Second year will focus more on classifiers, use of spatial referencing, role-shifting, signer's point of view, verb inflections and the Greater Deaf community (agencies serving the Deaf/Hard-of-Hearing). Using dialogues and narratives while continuing their virtual portfolios students will grow in their fluency, prosody, and confidence. If the student meets all the requirements in class with a B grade or above the student can earn 5-college credits through an articulation agreement with both Lake Washington Institute of Technology and/or Seattle Central College. **SCC requires work outside of class.**



### ASL 300/123

ASL 300 continues vocabulary and grammatical structure of the language with storytelling, narratives, and dialogues. While continuing an exposure to Deaf history, culture, and community, students will also explore Deaf folklore, current events and Deaf-related topics, Deaf-Blind community, mock interpreting simulations, poetry, iconic art, and careers with ASL. If the student meets all the requirements in class with a B grade or above the student can earn 5-college credits through an articulation agreement with Seattle Central College. **SCC requires work outside of class.**



# STEM: Science, Technology, Engineering, Mathematics

## BEGINNING COMPUTER APPLICATIONS

Can you type without looking at the keys? Everyone needs computer skills and typing by touch is a must in nearly every career in every field. We'll teach you how to do it in one hour and the rest of the semester will be used for skill development and computer applications formatting. You will also learn some basic Excel, Access, PowerPoint and HTML. *(Up to 5 college credits available)*



## MICROSOFT APPLICATIONS

Students will become proficient in Microsoft Office 2013 using:

- **Word**—word processing
- **Access**—database
- **Excel**—spreadsheets



Students will have the opportunity to earn their Microsoft Office Specialist Industry Certificate. *(Up to 5 college credits available)*

## MICROSOFT OFFICE CERTIFICATION

Students may become an "expert" in Word and Excel working independently using college level materials. Upon successful completion of this course, students are prepared to take the Microsoft Industry Standard certified tests and become more competitive in today's job market. *(Up to 5 college credits available.)*



## BUSINESS GRAPHICS

- **Photoshop & InDesign**—learn to use special effects, manipulate scanned or digital images, enhance photos, cut people out of photos, recolor photos and much more
- **Advanced PowerPoint**—training using photos, clip art, animation, sound, music and video
- **Create** professional flyers, brochures, wedding or graduation announcements and programs as well as business cards, and letterhead using Adobe InDesign.



*(Up to 5 college credits available)*

## WEB DESIGN

This course is a college level project based course that introduces the basic elements of designing and developing web pages. Students will learn how to plan and design effective web pages for business and personal use. Web pages will be created using HTML5, CSS, and Adobe Dreamweaver. Web Design develops four skill areas: Design, Research and Communication, Project Management and Collaboration and Web Authoring Tools. *(Up to 10 college credits available)*



## VIDEO PRODUCTION

**Prerequisite:** Junior/Senior standing, access to own video camera

This is a class for a creative person who can work both independently and in groups. You will be involved in all aspects of video production from filming, special effects, and music production to script writing, acting, and editing. You will be an integral part of production teams that create original videos: commercials, music videos, and movies. Students will also study the art of film-making through the analysis of movies. Can be Fine Art or Occ Ed credit.

**Available to Inglesmoor High School students only.**  
*(Up to 5 college credits available)*



## IB COMPUTER SCIENCE WITH JAVA

This course meets the requirements of the IB Computer Science (SL) curriculum, but you do not have to be an IB student to take this course. Programming topics cover fundamental Java language constructs, including objects, classes, methods, parameter passing, primitive and reference types, and use of the Java class libraries. In addition, students will study the systems life cycle, software development and computer systems fundamentals.



**Available to Inglesmoor High School students only.**  
*(Up to 5 college credits available)*

## IB DESIGN TECHNOLOGY SL

This project-based course provides students with an exploration of the process and tools used in industrial (products) design including an in-depth look at human factors and ergonomics, CAD/CAM, material science, and sustainable design. Individual portfolios will be developed based on class projects.

**SATELLITE PROGRAM** Inglesmoor High School

## IB DESIGN TECHNOLOGY HL

(pre-req or concurrent enrollment of IB Design Technology SL) Building upon the experiences and content of IB Design Technology SL, this problem-based course takes an in-depth look at human-centered design, sustainable development, and commercial manufacturing. Through a series of college-level projects (product design, building design/urban planning, and graphic design), individual portfolios will be developed for college applications. College credit available through both the University of Washington and Cascadia College.



**SATELLITE PROGRAM** Inglesmoor High School  
*(Up to 5 college credits available)*



## AVIATION: INTRODUCTION TO FLIGHT

Length/Credit: Full Year/1 period, 1 credit  
Grades: 11, 12

**Prerequisite:** Application and acceptance.

Aviation: Introduction to Flight is an exploratory course into the aviation careers. Come learn the principles of flight, aircraft and aircraft systems, flight environment, meteorology, radio communications, flight planning, aircraft performance, navigation, and more! The curriculum used in this course will prepare any student to take the FAA private pilot written exam.

**SATELLITE PROGRAM** North Creek High School



# STEM: Science, Technology, Engineering, Mathematics

## CAD LAB

Students will develop 2D and 3D drafting/modeling skills using CAD software like the Adobe suite, Rhino5 and Autodesk. Once the basics are learned students choose from a variety of projects using 3D printers, plotters and CNC machines to create a physical copy of their work. Project examples include create a 3D model of a product and create the 2D marketing materials to support that product, create a 3D model of a house and 2D floor plans using a plotter, a mechanical design project with moving parts produced in one print on a 3D printer. **No previous computer experience is required.**

*(Up to 8 college credits available)*



## INTRODUCTION TO ENGINEERING DESIGN

This course is open to any student who would like to learn about engineering design and the processes of building things. Applying problem solving, visual communication, and design skills along with using industrial technology systems, students create and build challenging and exciting projects. Units of study include manufacturing, electricity/ electronics, energy, power, computer aided drafting (CAD), structures and architecture. Class projects will be hands-on and constructed out of a variety of materials that could include wood, metal and plastic.

## PLTW PRINCIPLES OF ENGINEERING

As you master the basic concepts needed to continue your education in engineering, you'll apply them in this course while tackling real world challenges. Project Lead The Way -Principles of Engineering is the second year course within the 4 year Project Lead The Way program pathway. This course is designed to utilize the students foundational skills learned in the first course (Introduction of Engineering Design) in order to engage and challenge students while they explore a broad range of engineering topics that include energy sources and applications, mechanisms, fluid power, the strength of structures, materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. This is a year long program.



## PLTW ENGINEERING DESIGN

Engineering Design-Project Lead The Way serves as a foundation course within the 4-year Project Lead The Way Engineering pathway. This course is designed for the student interested in an engineering related field of study. Students dig deep into the engineering design process and focus on key elements including; research and analysis, technical drawing/sketching, measurements, statistics, geometric shapes/solids, dimensions, tolerances, reverse engineering, 3D modeling skills, structural analysis, product development, and design thinking concepts. Students work individually and in teams while applying math, science, and engineering standards to many hands-on projects.



## PLTW AEROSPACE ENGINEERING

**Prerequisite:** PLTW Principles of Engineering



As one of the specialty courses in the Project Lead The Way Engineering pathway, this course propels students into learning in the fundamentals of atmospheric and space flight. As they explore aeronautics, rocketry, and aerospace engineering, students bring concepts to life by hands-on projects like the creation of an airfoil, propulsion system, and rockets. Students explore basic orbital mechanics, robot systems, study materials and their applications, and learn about careers in aerospace.

## CONSTRUCTION ACADEMY

**Length/Credit:** Full Year/(2 Consecutive Periods) 2.0 Credits

**Grades:** 10, 11, 12

**Location:** BOTHELL HIGH SCHOOL (Satellite Program open to all NSD Students)

**Prerequisites:** Application and acceptance. Previous introductory course in woods, metals, welding, or manufacturing is recommended.

**Diploma Category:** CTE, Geometry

The Construction Academy program is designed to provide students with the technical skills necessary for entry-level trades positions and includes a strong emphasis on job-site safety. This course also focuses on developing professionalism and highly employable traits and characteristics, providing students skills necessary in all aspects of industry, including customer service and technical writing. Skills and knowledge are cultivated using hands-on activities, project-based learning, field trips, and guest speakers to meet rigorous academic and industry standards. Students will participate in all aspects of building a structure, including: planning, blueprint reading, floor, wall and roof systems, electrical, plumbing, and interior finishes. Students will also gain insight into the different pathways within the construction industry and the different career opportunities associated with each pathway.

*(College credit is pending)*



# STEM: Science, Technology, Engineering, Mathematics

## INTRODUCTION TO COMPUTER SCIENCE PRINCIPLES

**Prerequisite:** Successful completion of Algebra I or instructor permission

This introductory survey course based on the UC Berkeley CS10 course offers students a hands-on introduction to computer science that surrounds us every day. This course is far more than just learning to program. We'll focus on some of the "Big Ideas" in computing, such as abstraction, design, recursion, concurrency, simulation, and the limits of computation. We'll show some beautiful applications of computing that have changed the world, talk about the history of computing, and where it will go in the future. This is a semester program.

## AP COMPUTER SCIENCE A

**Prerequisite:** Successful completion of, or concurrently enrolled in, Algebra II

AP Computer Science A is both a college prep course for potential computer science majors and a foundation course for students planning to study in other technical fields such as engineering, physics, and chemistry. Learn to design and implement computer programs (JAVA language) that solve problems relevant to today's society. Students will apply programming tools, programming style, computer science theory, algorithm design, and documentation to solve complex problems through hands on experiences and examples. This course is designed to prepare students to take the College Board AP computer science exam in the Spring. *(Up to 5 college credits available)*

## AP COMPUTER SCIENCE PRINCIPLES

**Prerequisite:** Completion of Geometry or instructor permission

In this course, students will learn the fundamentals of computing – including problem solving, working with data, understanding the internet, cybersecurity, and programming. Students completing this course should leave with a broadened understanding of computer science for use in diverse majors and careers. Those wanting to earn AP credit will submit two "through-course performance tasks" to the College Board for grading, and will take a multiple-choice end-of-year exam. This course is not a prerequisite for AP Computer Science A, but AP Computer Science A is the logical follow-up class for students inspired to study computer science more deeply after completing this class.

## COMPUTER SCIENCE WITH C#.NET

Students use the C# programming language to write programs that run in the Microsoft.NET environment. This course emphasizes good overall program design and effective use of objects. Topics include fundamental language constructs, classes, exception handling, interfaces and inheritance. Students end the year with a multi-week project where they create, test, and document a major program of their own design. *(Up to 10 college credits available)*

## ADVANCED VIDEO PRODUCTIONS

**Prerequisite:** Junior/Senior standing, access to own video camera

This class will provide a variety of video experiences for students who have done well in an introductory course or have extensive experience in video making. Further instruction in audio-mixing, special effects, technical skills, and film analysis will be covered. (Assignments such as stop-action animations, documentaries & short films will be completed.) Can be Fine Art or Occ Ed credit.

**Available to Inglesmoor High School students only.**  
*(Up to 5 college credits available)*

## ADVANCED TELEVISION PRODUCTION

**Prerequisite:** Teacher Permission (A- or better in prior video class)

This class is for the student who excelled in prior Video Productions classes here at IHS. All work will be focused on furthering skills in editing, producing, and film analysis. Features for the broadcast and Senior Breakfast video are important parts of the class. Part of this class is devoted to producing "Good Morning Inglesmoor." Students will adopt specialty areas such as news anchor, sportscaster and producer. Can be Fine Art or Occ Ed credit.

**Available to Inglesmoor High School students only.**  
*(Up to 5 college credits available)*

## IB FILM

**Prerequisite:** Junior/Senior standing, completion of IB application

IB Film is an in-depth study of the nature of film as a powerful medium of communication and entertainment, and as an art form in its own right. The course is divided into three compulsory sections—textual analysis, film theory and history, and creative process—these are inextricably interwoven throughout the processes of teaching this course. Through a textual analysis of films and a study of film history students will enhance the development of their creative, analytic and production skills. Students will be required to create scripts for documentaries that study specific film styles and techniques, develop oral presentations that critically analyze short film passages, and produce short films. IB Film is a serious, academic approach to the study of film history and film production. Can be Fine Art or Occ Ed credit.

**Available to Inglesmoor High School students only.**  
*(Up to 5 college credits available)*

## ANIMATION TECHNOLOGY

This class will teach you the basics of 2D computer animation using the industry standard software Adobe Flash CS 5. Regardless of your ability to draw, you can create simple and complex animations using the unique tools and techniques of this amazing program. Learn frame-by-frame animation and "tweening" techniques. Learn how Flash is used in the development of web pages. Advanced students learn additional features of Flash including interactivity, action scripting and get the opportunity to try out a 3D program.

**Available to Woodinville High School students only.**



# STEM: Science, Technology, Engineering, Mathematics

## AUTO TECHNOLOGY – MORNING OR AFTERNOON (SKILL CENTER PROGRAMS)

**Length / Credit:** Morning: Full Year / 3 Consecutive Periods (1,2,3) / 3.0 Credits  
Afternoon: Full Year / 3 Consecutive Periods (4,5,6) / 3.0 Credits  
**Grades:** Available to: 10, 11th & 12th graders  
**Location:** BOTHELL HIGH SCHOOL (Satellite program – open to all NSD students)  
**Prerequisite:** Application, interview and acceptance  
**Fees:** Students can purchase personalized shop shirts (2 shirts ~\$40 optional) and are required to join SkillsUSA ~\$16  
**Diploma Category:** Career & Technical Education  
**Other Info:** Up to 26 Tech Prep college credits available if a grade of B or better is earned



Designed as a two- or three-year course of study. Each program meets 3 hours a day for the entire year. This gives students a “real world” experience of an automotive career, including a significant amount of vehicle diagnosis, maintenance and repair. The morning program is open to 11th grade students who have previously taken auto shop and 12th grade students. The afternoon program is open to first year 10th and 11th grade students.

- Students learn to work individually and in small groups.
- Student's progress at their own rate.
- Juniors can participate in paid, manufacturer-sponsored summer internships
- Scholarship opportunities through competitions

### CROSS CREDITING AVAILABLE!

**Credits available for the program include (to be decided upon by consensus with counselor/parent/guardian):**

- CTE
- 11th or 12th grade ELA
- 11th and 12th grade lab science
- Elective

**Upon successful completion of both years, students shall be awarded:**

- Certificate of Proficiency
- Multiple certifications available throughout program

*Note: As an ASE-certified training program, opportunities for advanced placement in post-secondary training programs are available. Students completing this program are given preference at Shoreline Community College's manufacture-sponsored programs.*

## SATELLITE PROGRAM

Bothell High School

(Up to 26 college credits available)

Courses also count for either ELA or 3rd year lab science credit

## METAL FABRICATION

This class is designed to provide students with knowledge of the basic concepts of metalworking. Emphasis will be placed on the hands-on study of sheet metal, forming, foundry casting, forging hot metals, hand tool operations, and bench work practices. Several project-based learning activities will be accomplished. *This is a semester long program.*

## WELDING TECHNOLOGY

Students will develop skills in multiple welding processes on different types of metals. Gas welding, GMAW (mig) and SMAW (stick or arc) are the welding processes taught in this class. Students will be given the opportunity to create a project from concept to physical product using CAD with CNC machines and their welding skills. *This is a semester long program.*

## WANIC WELDING

Students will develop skills in multiple welding processes on different types of metals. GMAW (mig) SMAW (stick or arc) and GTAW (tig) are the welding processes taught in this class. Students will learn how to weld steel and aluminum and there is a Metallurgy unit in the class. Students will be given the opportunity to create a project from concept to physical product using CAD with CNC machines and their welding skills. *This is a (2) period (1) semester long program.*

**SATELLITE PROGRAM** Woodinville High School  
(Up to 7 college credits available)



## ENGINE TECHNOLOGY

**Length/Credit:** One semester/.5 credit

**Grades:** 9, 10, 11, 12

Engine Technology will give students an overview of automobile systems and maintenance. This program is intended to give students the knowledge to confidently handle roadside emergencies and effectively communicate with their mechanics when having vehicles serviced. Students will split time between in class and in shop. Students will learn to use basic hand and power tools to perform routine maintenance on vehicles such as checking fluids, changing tires and performing an oil change. This program is open to all students regardless of future interest in automobile mechanics as a career. This is a very important class for young drivers and students taking drivers education.

**Available to Bothell High School students only.**

## INTRODUCTION TO ROBOTICS

This course is designed to give students the opportunity to explore the world of robotics through the basic principles of design, construction, and programming of robots while learning problem-solving techniques, mathematics, logic, creativity, physics, electronics, mechanics, teamwork, computers and computer programming. The class is structured for both technical and non-technical students. Students will first learn how the basic components of a robot operate and then learn to join them together to form a robot that can complete simple functions. Students will use VEX Robotic kits, quadcopter flying drone robots, Arduino and robotic arms in the class. In the labs, students either individually or as teams will be challenged to construct robots that will perform a series of tasks. The goal of the class is to provide students the opportunity to apply science, math, technology, and engineering skills and concepts to something which is both fun challenging and fun.

This course meets 3rd year math requirements as a Career Pathway Option for class of 2013 and beyond. Students will need to meet with their counselors to complete the registration, parent conference, and sign-off requirements prior to sign up for this course as a 3rd year math option. *(Up to 5 college credits available)*



# STEM: Science, Technology, Engineering, Mathematics



## COMPOSITES ENGINEERING & MANUFACTURING

**Prerequisite:** Introduction course in woods, metals, welding, or manufacturing is recommended.

Do you want to design and build fun projects like snowboards, skateboards, guitars, consumer products, aerospace, auto and marine fabrication/ repair, sporting equipment, and other interesting stuff? Composite manufacturing and materials engineering have evolved into a diverse industry and can be found in marine, aerospace, automotive, sports equipment, construction, alternative energy, consumer products, and medicine creating an expanding wealth of opportunity for talented professionals. This course is articulated with the Edmonds Community College Materials Science program and the Washington Aerospace Training and Research Center. This is also a great course for students who want to pursue a 4-year degree in Engineering and/or Materials Science. Students will have the opportunity to earn college credit in this high demand field. In addition, the Washington State Workforce Training and Education Coordinating Board, recently rated Aerospace and Composites Manufacturing as one of the top career cluster/pathways in Snohomish and King Counties.

*This is a 1 period 1 semester long program*

## SKILLS CENTER PROGRAM

Bothell High School

*(Up to 5 college credits available)*

## TV/VIDEO PRODUCTION

This class produces and edits video for web formatting using both computer based and Web 2.0 based software. Podcasting, scripting, storyboarding, concept development and video shooting are practiced and developed.

**Available to Inglemoor High School students only.**

*(Up to 5 college credits available)*

## MEDICAL PROFESSIONALS ACADEMY (HEALTH SCIENCE CAREERS)



This intensive course of study introduces students to a variety of careers in the health care industry with emphasis on hands-on, patient-oriented careers such as physician and nurse. At the end of the year students are qualified for the Nursing Assistant State exam. Nursing Assistant is an entry position in a medical field and will allow you to submerge into the healthcare world right after graduation.

### INSTRUCTION INCLUDES:

- Health care field career exploration
- Anatomy and physiology
- Medical terminology
- Pathophysiology and clinical manifestations
- Infection control
- Preventative & restorative care
- Patient care
- Electronic charting
- Clinical internship
- CPR and First Aid Certification
- HIV Certification
- Communication with a patient and care team

Classes meet at Woodinville High School for three consecutive periods in the morning or afternoon with an additional 7 days of clinical internship at skilled nursing facilities, 8 hours shifts on Saturdays through the school year. Schedule to be determined at the beginning of each school year. Clinical shadowing is at Harborview Medical Center at the end of the year with school transportation provided.

The state NAC certification exam is conducted at the end of the school year. The fee for the exam is \$156.00 which includes the Department of Health license administered to those who successfully passed the exam. Students are employable as Certified Nursing Assistant on the next day. Historically the employability of our students is about 100%. This program also can be a benefit for those who might care for their aging parents or disabled family members. Other expenses: Scrubs - \$25, white shoes, class personalized sweatshirt - \$35 and a wristwatch. Stethoscope is optional as we have them in class. All fees are fully refundable by future employer if a graduate gets a job within one year of completion of the program. This program has a partnership with the UW Bothell Nursing Program with a fast track Bachelor of Science in Nursing program as well as with the Health Science Department with pre-med, public and global health tracks. Students are actively involved in HOSA - National Health Occupation Students of America organization, successfully competing in multiple categories on a state and national level.

**High School credits:** 1.0 lab science, 2.0 occupational, and 0.5 senior health credits.

**College credit:** Through Bellevue College, which are fully transferable to any other college or university.

## SATELLITE PROGRAM

Woodinville High School

*(Up to 24 college credits available)*

# STEM: Science, Technology, Engineering, Mathematics

## BIOTECHNOLOGY

Biotechnology is a course designed to introduce students to the fundamentals of biology (cells, genetics, evolution and ecology) with a focus on current biotechnology research and modern laboratory technology. In addition to introductory biology, students will have the opportunity to engage in topics around bioethics, genetic engineering, genetic testing, infectious diseases and genetically modified organisms. Students will also be learning and applying biotechnology lab practices and will be exposed to career opportunities in the biotechnology and biomedical field. Biotechnology is an exciting, but challenging course best suited for students who are seriously interested in pursuing careers in the scientific medical field. Students that earned a B or better in 8th grade science are best prepared for this course.

## ADVANCED BIOTECHNOLOGY

**Prerequisite:** Successful completion of Biotechnology 1

This course is a continuation of biotechnology. The main focus of this course will be a continuation of biotechnology laboratory skills, DNA manipulation, independent experimentation, applied biotechnology to environmental challenges, and further exploration of careers in biotechnology and biomedical field. In addition, students will work with industry mentors to complete a culminating project that will be showcased at the annual Northwest Association of Biomedical Research Bioexpo competition. A field trip to explore the University of Washington Medical Center (depending on space availability) will also take place earlier in the year, as well as field trips to other biotech labs.  
*(Up to 5 college credits available)*



## IB BIOLOGY I (HL) (IBS103)

**Prerequisite:** Junior/Senior standing, Pre-IB Chemistry to be taken in the 10th grade or completion of both Biology & Chemistry. As space permits, seniors with exceptional science backgrounds may enroll in IB Biology I after obtaining instructor and IB Coordinator permission. 1 year

**Grade Requirements:** Tests (objective, essay, lab), written assignments, and laboratory work as reflected in the development of a student portfolio and logbook

IB Biology HL, one of the Experimental Sciences (also called Group 4 Programs on the IB hexagon) is the scientific study of living organisms. It is a rigorous, lab-based (25 percent of our time), pre-university course of study. Our textbook is used in many college biology courses. In Year 1, we focus on the underlying similarities among living things (cells, biochemistry, metabolism, molecular biology, plant science, and ecology), including genetic engineering. In addition, this course provides students with the opportunity to explore career options in the biotechnology field & offers technology experiences applicable to the fields of medicine, biomedical research, and clinical testing.

**Available to Inglemoor High School students only.**

## IB BIOLOGY II (HL) (IBS155)

**Prerequisite:** Successful completion of first-year IB Biology I. As space permits, seniors with exceptional science backgrounds may enroll in IB Biology II after obtaining instructor and IB Coordinator permission. 1 year

**Grade Requirements:** Tests (objective, essay, lab), written assignments, and laboratory work as reflected in the continuation of a student portfolio and logbook initiated in IB Bio I

The second year of a two-year course. We examine biological diversity (genetics, evolution, human physiology, and our "option": neurobiology and behavior) as well as PCR and gel electrophoresis. Time will also be spent in preparation for the IB Biology examination in May. In addition, this course provides students with the opportunity to explore career options in the biotechnology field & offer technology experiences applicable to the fields of medicine, biomedical research, and clinical testing

**Available to Inglemoor High School students only.**

## SPORTS MEDICINE/ATHLETIC TRAINING

Students in this course develop and apply skills connected to different careers within the field of sports medicine and athletic training. The course is structured with both classroom and applied learning/internship components working under the supervision of the certified athletic trainer with high school sports teams. The standards for this course are based upon the National Athletic Trainers' Association six domains of responsibility/education, and the Career and Technical Education Therapeutic and Sports Medicine competencies strands.

### SATELLITE PROGRAM:

Bothell High School

*(Up to 15 college credits available)*



## ADVANCED SPORTS MEDICINE/ATHLETIC TRAINING

**Prerequisite:** Beginning Sports Medicine/Athletic Training, Human Physiology, Nursing, or related courses as approved by the instructor

This course builds on Beginning Sports Medicine/Athletic Training as students will focus more on how to evaluate and rehabilitate specific sports injuries. They will also learn about the psychological aspects of sports injury, sports nutrition, and sport pharmacology. Students enrolled are required to obtain 60 hours of athletic training experience and complete a clinical internship at a local healthcare facility (hospital, physical therapy clinic, high school, college or professional training room, massage therapy clinic, chiropractic clinic, fire dept, fitness center, dental office, dietitian/nutrition center). Students will also participate in the Washington Career & Technical Sports Medicine State competition held in the Spring. Students who earn a "B" or better in this course qualify for college credit through our Tech Prep College Connections program.

### SATELLITE PROGRAM:

Bothell High School

*(Up to 10 college credits available)*



# Social Services & Education



## INTRODUCTION TO BUSINESS

Would you like to own your own business some day? This course introduces students to the following topics: the business environment and forms of ownership; how to manage and lead others; effective business communication in the work place; and how to achieve financial success. Students will gain experience running a virtual retail business (pricing, purchasing, promoting, record-keeping, etc.), as well as participate in the creating of their own company, develop a business plan, and present their company to an audience of their peers. Students will learn how to keep the basic financial records of a company throughout the course of a month "on the job". Students will role play employee/customer or employee/manager situations to develop human relation and interpersonal communication skills which are essential to working effectively in an organization. *(Up to 5 college credits available)*



## PERSONAL AND BUSINESS LAW

This course is designed to give students exposure to the types of law they will encounter every day. Topics covered include criminal and civil issues. An emphasis on case studies, role playing and group work will allow students to use their own life experiences to bring the course material to life and to keep the class relevant.

**Available to Woodinville High School students only**  
*(Up to 5 college credits available)*



## BEGINNING COMPUTER APPLICATIONS

Can you type without looking at the keys? Everyone needs computer skills and typing by touch is a must in nearly every career in every field. We'll teach you how to do it in one hour and the rest of the semester will be used for skill development and computer applications formatting. You will also learn some basic Excel, Access, PowerPoint and HTML. *(Up to 5 college credits available)*



## MICROSOFT APPLICATIONS

Students will become proficient in Microsoft Office 2013 using:

- **Word**—word processing
- **Access**—database
- **Excel**—spreadsheets

Students will have the opportunity to earn their Microsoft Office Specialist Industry Certificate. *(Up to 5 college credits available)*



## BUSINESS GRAPHICS

- **Photoshop & InDesign**—learn to use special effects, manipulate scanned or digital images, enhance photos, cut people out of photos, recolor photos and much more
- **Advanced PowerPoint**—training using photos, clip art, animation, sound, music and video
- **Create** professional flyers, brochures, wedding or graduation announcements and programs as well as business cards, and letterhead using Adobe InDesign.

*(Up to 5 college credits available)*



## MARKETING

Marketing coach's business and life skills that apply to all careers and are performance based skills that everyone needs to demonstrate to become successful in life and in business. This class is perfect for the student who is interested in the way businesses operate and make decisions. Students learn the multi-faceted and integrated nature of problem solving in the business world. They also learn how to market themselves, build confidence, and introduce new products and services in highly competitive and sometimes-international business environments.

DECA is the international student association, with 180,000 members, that all marketing students are encouraged to join. DECA provides students with many opportunities for travel, leadership development, case study competitions, DECA only scholarships, and fun. DECA is the "varsity sport of business". Topics covered are universal in the world of business and apply to both profit and not-for profit organizations. *(Up to 10 college credits available)*



## LIFESPAN PSYCHOLOGY

This exploratory course is designed to introduce students to the many subjects of psychology. Through class discussion, lectures, projects and presentations students will learn about the human lifespan. Subjects that will be covered include: child development, personality, intelligence, personal and professional relationships, communication, family dynamics, and many other popular psychology topics.

# Social Services & Education

## AP PSYCHOLOGY

**Prerequisite:** None

The Advanced Placement Psychology course is designed to introduce students to the systematic and scientific study of human mental processes and behavior. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology (such as: history and approaches, research methods, biology and behavior, learning and cognition, developmental and abnormal psychology, and social psychology). Students will also learn about careers in psychology and the pathways to additional training. This course is equivalent to an introductory college course in psychology. As a college level course, AP Psychology is best suited for students willing to apply themselves to the study of interesting and sometimes challenging material. Enrolled students will be given the opportunity to take the AP Psychology exam in May for college credit.



## IB PSYCHOLOGY

Psychology is the systematic study of human behavior experience. The overall aim of this course is to give students a deeper understanding of the nature and scope of psychology. Studies of the biological, sociocultural and cognitive perspectives will provide an appreciation of the diverse approaches that have shaped the nature of knowledge and the ways of investigating behavior within the discipline of psychology. In addition to the core perspectives, students will examine specific issues within health and dysfunctional psychology which will provide an opportunity to study according to their own personal interests.

**Available to Inglemoor High School students only**

## INDEPENDENT LIVING

In this activity-oriented comprehensive class you will learn skills needed to be independent such as wise money management, which includes learning to invest and positive use of credit, basic meal planning and preparation, and buying consumer goods. You will look at selecting housing and roommates, tenants and/or landlord responsibilities as well as protecting yourself from consumer "rip-offs". Other topics covered include how to buy and insure a car, and how to fill out tax forms.

## INTERIOR DESIGN

If you have a keen interest in art and design, then Interior Design is the course for you! Make the most of all your talents in this project based laboratory course. Challenge yourself every day as you apply the elements and principles of design related to tasks and projects. The course of study will include exploring the appropriate use of: color concepts, floor plans, furniture arrangement and selection, lighting choices, textiles, green materials, as well as kitchen and bathroom design. If you would like to stimulate your personal growth in design and make a positive difference in people's lives, then Interior Design may be just what you're looking for! Articulation with Bellevue College for college credit. (Up to 5 college credits available)



## CAREERS IN EDUCATION

If you're considering a career in education as a teacher, counselor, or an administrator, the Careers in Education will give you the "total teaching" experience. Students will gain experience in understanding the learner, schools, teachers and teaching as well as exploring pathways to the future. Working with a mentor teacher, students expand and apply their knowledge during an internship experience in an elementary or middle school setting. As an intern, you will experience the inner workings of the classroom, school and district, while performing duties such as tutoring, grading, supervising and eventually teaching.

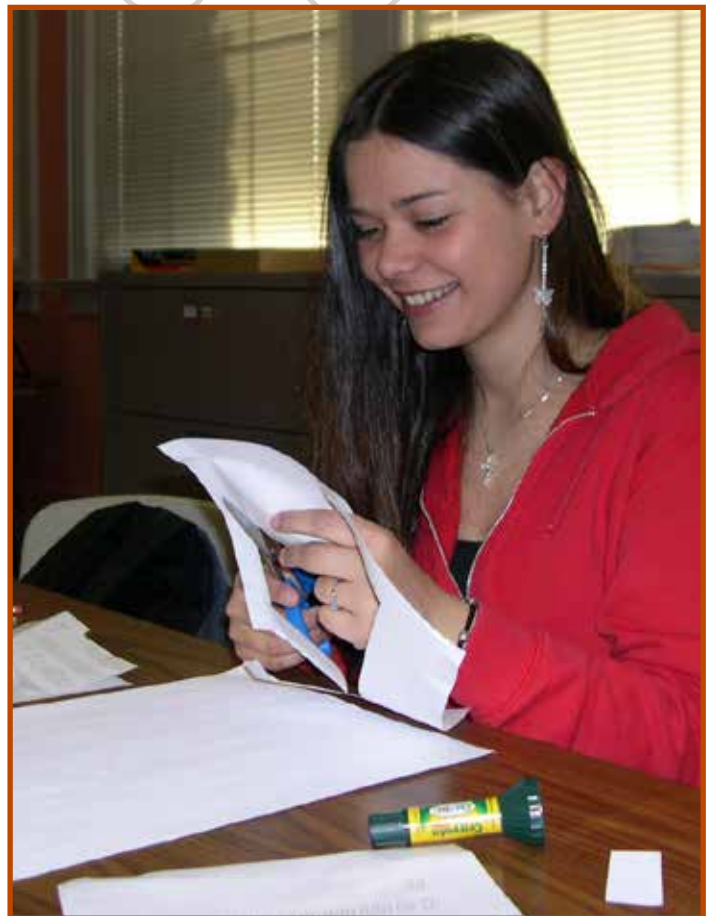
**The class meets for two consecutive periods at Bothell High School.**

Students can earn college credits from Cascadia College, Lake Washington Technical College, and Bellevue College. The Careers in Education also has articulation agreements with Central Washington University, Washington State University and Western Washington University. Students who have successfully completed the Careers in Education may waive the entry level education course at the participating colleges. Students will also earn the state S.T.A.R.S. certification required to work in licensed childcare centers.

## SATELLITE PROGRAM

Bothell High School

(Up to 5 college credits available)



# Social Services & Education



## CULINARY ARTS

Would you like to know “Chef secrets” or how to make restaurant quality food? Culinary Arts is the class for you to learn those professional secrets. This Satellite class is offered to district students who are interested in learning restaurant industry secrets and standards. Students will learn hands on industry experience through food preparation, entry level baking (cookies, quick breads, cakes), cooking methods (grilling, sauté, stir fry) & techniques (knife skills, presentation, service, garnishing). To enhance their culinary experience students will have the opportunity to develop their own restaurant concept and design and produce a menu and menu ideas for their concept. Students will explore culinary careers in the food industry, work with industry professionals, tour food establishments and work with college culinary programs. Culinary Arts is where you learn how to have a successful future career in the food industry! A practical and written exam will be administered as part of this program.



### PREPARE FOR COLLEGE AND A CAREER!

- Earn college credits transferable to varying community colleges
- Become eligible for scholarships
- Earn National Restaurant Association Certification (must complete 2 years of Culinary Arts) \$20.00 fee
- Obtain Washington State Food Workers Permit (\$10.00) and Professional Lab Coat (\$36.00) – fee is the responsibility of the student

## SKILLS CENTER PROGRAM

Bothell High School

*(Up to 9 college credits available)*

*Course also counts for 3rd year lab science credit*

## BAKING & PASTRY

In this advanced course, students will learn the baking techniques of mixing, shaping, folding and baking while exploring the science and math behind baking. Students will learn how to successfully make quick breads, decorated cakes, pies, mousses, sauces, custards, frozen desserts, cookies, and confections. In addition, students will be introduced to decorating techniques like sugar and chocolate garnishing. Students will learn in a well-equipped, industry standard kitchen to prepare food for student presentations, school functions and community service events. This course includes classroom instruction and practical lab work in a commercial kitchen. A practical and written exam will be administered as part of this program.



### PREPARE FOR COLLEGE AND A CAREER!

- Earn college credits to LWIT
- Become eligible for scholarships
- Obtain Washington State Food Workers Permit (\$10.00) and Professional Lab Coat (\$36.00) – fee is the responsibility of the student

## SATELLITE PROGRAM

Bothell High School

*(Up to 9 college credits available)*

*Course also counts for 3rd year lab science credit*

## FOODS AND NUTRITION

This class is designed to stimulate interest in planning, preparation and appreciation of healthy foods. This class provides a look into nutritional needs, safety, sanitation practices, and use and care of kitchen equipment providing a framework for the kitchen experiences in basic food preparation. Students will study basic nutritional guidelines, which will then be applied to menu planning and cooking skills. Learn to make everything from pies to pad Thai! Emphasis will be given in developing positive attitudes for appreciation of nutritional, good tasting foods.

*(Up to 3 college credits available)*



## FOOD SCIENCE, DIETETICS, AND NUTRITION

The food science industry is one of the larger industries in the United States with many career & job opportunities offered throughout the food system. Students will learn the knowledge, skills and practices required for careers in food science, dietetics, and nutrition. The course focuses on the relationship between food consumption, health, and human development. Science is integrated throughout the course in such experiments as caramelization of sugars and starches, the production and growth of yeast, or the effects of temperature on chocolate. Students may study dietetic topics such as effects of antioxidants on humans, the shelf life of food products and the negative & positive effects of bacteria on food. Students will work in teams, individually and with partners to prepare and conduct food experiments to interpret, predict, and evaluate food and food experiments.

# Social Services & Education

## MEDICAL PROFESSIONALS ACADEMY (HEALTH SCIENCE CAREERS)

This intensive course of study introduces students to a variety of careers in the health care industry with emphasis on hands-on, patient-oriented careers such as physician and nurse. At the end of the year students are qualified for the Nursing Assistant State exam. Nursing Assistant is an entry position in a medical field and will allow you to submerge into the healthcare world right after graduation.



### INSTRUCTION INCLUDES:

- Health care field career exploration
- Anatomy and physiology
- Medical terminology
- Pathophysiology and clinical manifestations
- Infection control
- Preventative & restorative care
- Patient care
- Electronic charting
- Clinical internship
- CPR and First Aid Certification
- HIV Certification
- Communication with a patient and care team

Classes meet at Woodinville High School for three consecutive periods in the morning or afternoon with an additional 7 days of clinical internship at skilled nursing facilities, 8 hours shifts on Saturdays through the school year. Schedule to be determined at the beginning of each school year. Clinical shadowing is at Harborview Medical Center at the end of the year with school transportation provided.

The state NAC certification exam is conducted at the end of the school year. The fee for the exam is \$156.00 which includes the Department of Health license administered to those who successfully pass the exam. Students are employable as Certified Nursing Assistant on the next day. Historically, the employability of our students is about 100%. This program also can be a benefit for those who might care for their aging parents or disabled family members. Other expenses: Scrubs - \$25, white shoes, class personalized sweatshirt - \$35 and a wristwatch. Stethoscope is optional as we have them in class. All fees are fully refundable by future employer if a graduate gets a job within one year of completion of the program. This program has a partnership with the UW Bothell Nursing Program as well as with the Health Science Department with pre-med, public and global health tracks. Students are actively involved in HOSA - National Health Occupation Students of America organization, successfully competing in multiple categories on a state and national level.

**High School credits:** 1.0 lab science, 2.0 occupational, and 0.5 senior health credits.

**College credit:** Through Bellevue College, which are fully transferable to any other college or university.

**SATELLITE PROGRAM** Woodinville High School  
(Up to 24 college credits available)



## ASL 100/121

Open to 9, 10, 11

This college level course, ASL 100, is the complex and natural existing language used by the Deaf. ASL 100 will introduce students to this visual / gestural language and to the Deaf community. In this class students will learn vocabulary and the grammar of ASL through natural everyday conversation, situations, and activities. Classrooms operate in large and small group settings and often in full immersion. Students must be able to maintain eye contact and be visually focused. Also having the ability to work regularly with recording devices (by uploading and downloading media) for portfolio purposes. If the student meets all the requirements in class with a B grade or above the student can earn 5-college credits through an articulation agreement with both Lake Washington Institute of Technology and/or Seattle Central College. **SCC requires work outside of class.**



## ASL 200/122

ASL 200 expands on vocabulary, depends complex grammatical understanding, functional application, Deaf history, culture and community. Second year will focus more on classifiers, use of spatial referencing, role-shifting, signer's point of view, verb inflections and the Greater Deaf community (agencies serving the Deaf/Hard-of-Hearing). Using dialogues and narratives while continuing their virtual portfolios students will grow in their fluency, prosody, and confidence. If the student meets all the requirements in class with a B grade or above the student can earn 5-college credits through an articulation agreement with both Lake Washington Institute of Technology and/or Seattle Central College. **SCC requires work outside of class.**



## ASL 300/123

ASL 300 continues vocabulary and grammatical structure of the language with storytelling, narratives, and dialogues. While continuing an exposure to Deaf history, culture, and community, students will also explore Deaf folklore, current events and Deaf-related topics, Deaf-Blind community, mock interpreting simulations, poetry, iconic art, and careers with ASL. If the student meets all the requirements in class with a B grade or above the student can earn 5-college credits through an articulation agreement with Seattle Central College. **SCC requires work outside of class.**







**CTE Dual Credit Offerings Available at  
Northshore School District High Schools**  
\* CTE = Career & Technical Education \*  
College Credit Without Leaving Your High School!




Strengthening Our Community Through Excellence in Education


	College Awarding Credit & Total Number of College Credits Possible				
	High School Class	BC	CC	EdCC	LW Tech SCC
<b>Arts &amp; Communication</b>					
	ASL 1st Year (year long)				5
	ASL 2nd Year (year long)				5
	Web Design - Semester 1	5	5		5
<b>Business &amp; Marketing</b>					
	Accounting 1st year	5			5
	Accounting 2nd year	5			
	Business Graphics	5	1		
	Business Management OR	5			
	Intro to Business	5			
	Computer Applications, Beg.	5			
	Fashion Merchandising	2			
	Marketing, Intro (year long)	5			5
	Marketing, Retail (year long)	5			
	Marketing, Adv (year long)	5			
	Microsoft Applications OR	5			5
	Microsoft Office Cert	5			
	Finance/Personal Finance	5			
<b>Science, Engineering &amp; Technology</b>					
	Auto Tech (1 or 2)				up to 26
	Composites Engineering & Manufacturing			5	
	Computer Science, Intro	5		5	
	Comp Sci w/ C#.net - Sem 1	5		5	5
	Comp Sci w/ C#.net - Sem 2			5	5
<b>Health &amp; Human Services</b>					
	Baking & Pastry Arts				15
	Culinary Arts (year long)				10
	Sports Medicine I (year long)	15			
	Sports Medicine II (year long)	10			
	Teaching Academy (year long)	5	5		5

**BC = Bellevue College**  
**CC = Cascadia College**  
**EdCC = Edmonds Community College**  
**LW Tech = Lake Washington Institute of Technology**  
**SCC = Shoreline Community College**

	College Awarding Credit & Total Number of College Credits Possible				
	High School Class	BC	CC	EdCC	LW Tech SCC
<b>Arts &amp; Communication</b>					
	ASL 1st Year (year long)				5
	ASL 2nd Year (year long)				5
	Computer Graphics		5		
	Video (Beg OR Adv) OR	5			
	TV Broadcasting				
	Film (IB)	5			
	Interior Design	5			
	Web Design - Sem 1	5	5		5
	Web Design - Sem 2	5			
<b>Business &amp; Marketing</b>					
	Marketing, Intro (year long)	5			5
	Marketing, Adv (year long)	5			
	Marketing, Retail (year long)	5			
	Microsoft Applications OR	5			5
	Microsoft Office Cert	5			
	Finance/Personal Finance	5			
<b>Science, Engineering &amp; Technology</b>					
	Comp Sci w/ C#.net - Sem 1	5		5	5
	Comp Sci w/ C#.net - Sem 2			5	5
	Programming w/ Java (IB)	5		5	5
	IB Design Technology		5		
<b>Health &amp; Human Services</b>					
	Sports Medicine I (year long)	15			
	Sports Medicine II (year long)	10			



	College Awarding Credit & Total Number of College Credits Possible				
	High School Class	BC	CC	EdCC	LW Tech SCC
<b>Arts &amp; Communication</b>					
	ASL 1st Year (year long)				5
	ASL 2nd Year (year long)				5
<b>Business &amp; Marketing</b>					
	Business Law (year long)	5			
	Marketing, Intro (year long)	5			5
	Marketing, Adv (year long)	5			
	Marketing, Retail (year long)	5			
	Microsoft Applications OR	5			5
	Microsoft Office Cert	5			
	Finance/Personal Finance	5			
<b>Science, Engineering &amp; Technology</b>					
	Biotechnology, Advanced				5
	CAD Lab (year long)				8
	Computer Science: AP or Intro or Advanced Topics	5		5	
	Comp Sci w/ C#.net - Sem 1	5		5	
	Comp Sci w/ C#.net - Sem 2			5	
	Welding				6
<b>Health &amp; Human Services</b>					
	Health Science Careers	22			13

	College Awarding Credit & Total Number of College Credits Possible				
	High School Class	BC	CC	EdCC	LW Tech SCC
<b>Arts &amp; Communication</b>					
	ASL 1st Year (year long)				5
	ASL 2nd Year (year long)				5
	Interior Design	5			
	Web Design	5	5		5
<b>Business &amp; Marketing</b>					
	Marketing, Intro (year long)	5			5
	Marketing, Adv (year long)	5			
	Marketing, Retail (year long)	5			
	Microsoft Applications OR	5			5
	Microsoft Office Cert	5			
	Finance/Personal Finance	5			
<b>Science, Engineering &amp; Technology</b>					
	Adv. Biotechnology (yearlong)				5
	CAD Lab (year long)				8
	Computer Science, Intro	5		5	
	Computer Science, AP	5		10	

[INFO@PNWcollegedcredit.org](mailto:INFO@PNWcollegedcredit.org)

[PNWcollegedcredit.org](http://PNWcollegedcredit.org)

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*Northshore School District prohibits discrimination on the basis of age, sex, marital status, genetic information, sexual orientation including gender expression or identity, race, creed, religion, color, national origin, honorably discharged veteran or military status, or the presence of any sensory, mental, or physical disability or the use of a trained dog guide or service animal by a person with a disability, unless based upon a bona fide occupational qualification, in all its employment procedures, training, programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following employee(s) have been designated to handle questions and complaints of alleged unlawful discrimination: Director of Human Resources (Title IX, ADA, and Civil Rights Compliance), Director of Student Services (Section 504), 3330 Monte Villa Parkway, Bothell, WA 98021, (425) 408-6000*

*The Northshore School District provides equal opportunity in education and employment and does not discriminate on the basis of race, color, national origin, sex, age or handicap in accordance with Title VI and VII of the Civil Rights Act of 1964. Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973. Inquiries regarding compliance procedures may be directed to Doug Hale, Affirmative Action Officer, (425) 408-7605, and Damen Schuneman, Section 504 Coordinator, (425) 408-7718, 3330 Monte Villa Parkway, Bothell, WA 98021.*

*The Northshore School District will make every effort to provide accessibility to events, meetings and programs to individuals with disabilities. Please contact the building principal where the activity is occurring or Becky Anderson, ADA officer, at 425.408.7709, to request special accommodations.*

*BOARD OF DIRECTORS: David Cogan, Jacqueline McGourty, Robert Swain, Sandy Hayes, and Amy Cast*

*SUPERINTENDENT: Dr. Michelle Reid*

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