Vancouver *i*Tech Preparatory

Program of Studies
2020-2021

Vancouver *i*Tech Preparatory
16100 NE 50th Ave, Vancouver, WA 98686
Phone: 360-313-5200
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FOCUSING THE MISSION ON INDIVIDUAL STUDENT SUCCESS
SUCCESS FOR EVERY STUDENT

Mission Statement

Excellence in Education
In partnership with home and community, Vancouver Public Schools provides an innovative learning environment that engages and empowers each student to develop the knowledge and essential skills to become a competent, responsible, and compassionate citizen.

Core Principles

- Learner centered
- Balanced, well-rounded, and relevant education
- High Standards and expectations
- Nurturing and joyful learning experiences
- Visionary leadership
- Continuous improvement
- Collaboration and teamwork
- Performance, research, and results driven
- Valuing the worth, dignity, and capability of every person
- Equity and justice

Values and Beliefs

- Every child has a right to learn.
- Every child deserves the opportunity to grow into a confident adult, capable of earning a living and being a valuable contributor to family and community.
- Students willing to do the work often are capable of unlimited growth.
- Instruction must be tailored to individual strengths and learner needs.
- Learning is enhanced through collaboration with parents, students, educators, and community members.
- Optimal use of technology and other learning resources demands alignment with curricular and instructional practice, staff development, and assessment strategies.
- Individual and group learning can be aided through timely and informed use of student performance data.
- Students should be given multiple ways to demonstrate what they know and are able to do.
- Achievement should be recognized and celebrated.
- Educational excellence requires effort and hard work, and ultimately, individual success is determined by the efforts of the learner.

SECONDARY ACADEMIC PROGRAMS OF CHOICE
A PERSONALIZED EDUCATION

Dear student and your family members,

We are proud to offer a variety of unique learning opportunities in Vancouver Public Schools. I encourage you to explore the range of choices. Be open-minded; consider different areas of study. Knowledge enhances life, and every learning path leads to new possibilities for further education and careers.

STEM (science, technology, engineering, and math) magnet programs are offered at Skyview High School and Vancouver iTech Preparatory. In 2015-2016, iTech Prep expands to include grades 6 through 12. The middle school program is housed at the Jim Parsley Education, Family and Community Center. The high school program is located in the Clark College Building at the Washington State University Vancouver campus.

At Vancouver School of Arts and Academics, students in grades 6-12 explore various forms of art, from music and dance to theatre and moving image arts. Students study core academic subjects in an integrated way, based on an annual theme.

Career and technical education (CTE) programs provide hands-on, real-world applications to learning. The Bay ACES Magnet at Hudson's Bay High School covers architecture, construction, and environmental sciences. Fort Vancouver High School hosts Medical Arts, Culinary Arts, and Welding/Fabrication Technology magnets. Other programs include early childhood education, horticulture, and video production.

Lewis and Clark High School debuted as a new blended learning program in 2013. In a small educational setting, students work at individual paces using one-to-one technology devices as learning tools.

Accelerated programs are offered at all high schools. Students can earn college credits and work toward college degrees while still in high school. We offer a College in the High School program, Running Start, and credits through Advanced Placement, International Baccalaureate, and some CTE classes.

International Baccalaureate (IB) is a rigorous academic program. Students can earn an IB diploma, which is recognized worldwide. The high school IB program is located at Columbia River High School, and a Middle Years IB program is offered at Discovery Middle School.

Our highly dedicated teachers, support staff, and mentors are available to answer questions and guide you. We want you to have the most successful learning experience possible, and we wish you a bright future.

Sincerely,

Steven Webb, Ed.D.
Superintendent

LETTER FROM THE PRINCIPAL

Vancouver iTech Preparatory
Phone: 360-313-5200 • Fax: 360-313-5201

Dear *i*Tech Preparatory Students and Community,

Welcome to *i*Tech Preparatory, a place where our focus is to empower our students to challenge themselves in a project, problem, and practiced-based curriculum that views the world from the objective lens of the STEM fields. As an *i*Tech student, you will be immersed in an educational program that celebrates diversity, academics and community in a safe and nurturing environment. We strive to engage our students in the creative processes of innovation so that they may contribute to the resolution of current and future local and global issues. Contributing to resolving local and global issues requires the ability to view the world from the various perspectives and voices that compose a global society. *i*Tech Preparatory's liberal arts, STEM focused curriculum is a blended approach by which students will gain varied perspectives, thus increasing their ability to explore, imagine, and innovate solutions for issues of importance.

The *i*Tech Preparatory staff is dedicated to ensuring that all students can perform to the best of their ability. Therefore, teachers work diligently to provide a balanced integrated program that emphasizes a student's ability to demonstrate their learning in a variety of ways. Students are expected to express verbally, in writing, or through projects, their content knowledge, the thought process by which they are able to solve complex multi-step problems, and their creative innovations based on their new learning. Differentiated instruction allows students to work at their instructional level while providing appropriate challenge.

The challenge of taking learning from memorization of facts to innovative thought and action requires we work together with our families. We strive to provide a quality educational program each and every day and due to the nature of our program, that my look very different than other schools. Please look through the pages of our Program of Studies and learn more about our school and grade level requirements.

We look forward to another exciting year at *i*Tech Preparatory!

Sincerely,

Darby Meade
Principal

*i*Tech Preparatory Mission Statement

Vancouver iTech Preparatory empowers each student to engage with their future by fostering innovation and resilience using project-based learning with a focus on science, technology, engineering, and mathematics.

Philosophy

Our philosophy of learning grows out of a commitment to specific principles, which guide us in how we learn. Students and staff alike come to the school knowing that the people here teach and learn with a creative and inquisitive approach sustained by high academic integrity.

Within the framework of our guiding principles we constantly ask fundamental questions which explore evidence of learning. In this school, we learn the value of individual commitment and respect for uniqueness because we live and learn everyday with people who are inventive, receptive to new ideas, responsible, and committed to learning.

*i*Tech PREPARATORY

Learn to explore and express different perspectives:

Natural Scientist	Writer
Mathematician	Artist
Engineer	Global Citizen
Social Scientist	Community Member

I NNOVATION
T EAMWORK
E XCELLENCE
C OMMITMENT
H ONESTY

The Academic Program at Vancouver *i*Tech Preparatory is rigorous and intended to prepare students for college and careers. All students are required to study English every year. Four years of high school math, science, Spanish and social studies are also required for graduation. Because of the block schedule, students graduate with more credits than are required at most Washington schools.

*i*Tech Preparatory uses project and problem based learning to give students an opportunity to explore Science, Technology, Engineering, and Math. Standards based grading and mastery learning allow students to redesign and improve their work throughout the semester.

Students study academics in inter-age classes that are grouped together. The academic program includes multiple levels of mathematics, language arts, science, and social studies –with growing Advanced Placement course offerings. Students will work toward mastery of Common Core State Standards and Next Generation Science Standards in each of these subject areas as outlined on the following pages. In mathematics, students are placed in the math level appropriate to their skills and abilities.

As an early college model, students are also able to access a growing number of classes at Clark College and Washington State University Vancouver. This, combined with Advanced Placement classes allows our students to earn college credit.

A Student's Week

Regular Day

Students are assigned a lunch period and follow the schedule which matches their lunch assignment.
**Fridays that fall on a week that has a Monday holiday or non-student attendance day are converted to an A Day Schedule.*
Monday and Wednesday = Periods 1 through 4
Tuesday and Thursday = Periods 5 through 8
****Friday = Periods 1 through 8***

40 Minute Early Release Schedule

MONDAY

1st Lunch Schedule (Lunch A)		
Period 1/5	9:35 – 10:52	77 minutes
Passing	10:52 –10:55	3 minutes
1st Lunch	10:55-11:25	30 minutes
Passing	11:25-11:28	3 minutes
Period 2/6	11:28-12:45	77 minutes
Passing	12:45-12:48	3 minutes
Period 3/7	12:48-2:05	77 minutes
Passing	2:05-2:08	3 minutes
Period 4/8	2:08-3:25	77 minutes

2nd Lunch Schedule (Lunch B)		
Period 1/5	9:35 – 10:52	77 minutes
Passing	10:52 –10:55	3 minutes
Period 2/6	10:55-12:12	77 minutes
Passing	12:12-12:15	3 minutes
2nd Lunch	12:15-12:45	30 minutes
Passing	12:45-12:48	3 minutes
Period 3/7	12:48-2:05	77 minutes
Passing	2:05-2:08	3 minutes
Period 4/8	2:08-3:25	77 minutes

*Lunches based on 2nd or 6th period.

TUESDAY - THURSDAY

1ST Lunch Schedule (Lunch A)		
Period 1/5	9:35 - 10:55	80 minutes
Passing	10:55 - 10:58	3 minutes
Advocacy	10:58-11:23	25 minutes
Passing	11:23 –11:26	3 minutes
1st Lunch	11:26 –11:56	30 minutes
Passing	11:56-11:59	3 minutes
Period 2/6	11:59 – 1:19	80 minutes
Passing	1:19 – 1:22	3 minutes
Period 3/7	1:22 - 2:42	80 minutes
Passing	2:42 - 2:45	3 minutes
Period 4/8	2:45 - 4:05	80 minutes

2ND Lunch Schedule (Lunch B)		
Period 1/5	9:35 - 10:55	80 minutes
Passing	10:55 - 10:58	3 minutes
Advocacy	10:58-11:23	25 minutes
Passing	11:23 –11:26	3 minutes
Period 2/6	11:26 - 12:46	80 minutes
Passing	12:46-12:49	3 minutes
2nd Lunch	12:49 – 1:19	30 minutes
Passing	1:19 – 1:22	3 minutes
Period 3/7	1:22 - 2:42	80 minutes
Passing	2:42 - 2:45	3 minutes
Period 4/8	2:45 - 4:05	80 minutes

FRIDAY

1ST Lunch Schedule (Lunch A)		
Period 1	9:35 - 10:17	42 minutes
Passing	10:17 - 10:20	3 minutes
Period 5	10:20 - 11:02	42 minutes
Passing	11:02 - 11:05	3 minutes
Period 2	11:05 - 11:47	42 minutes
Passing	11:47 - 11:50	3 minutes
1st Lunch	11:50 - 12:20	30 minutes
Passing	12:20 - 12:23	3 minutes
Period 6	12:23 - 1:05	42 minutes
Passing	1:05 - 1:08	3 minutes
Period 3	1:08 - 1:50	42 minutes
Passing	1:50 - 1:53	3 minutes
Period 7	1:53 - 2:35	42 minutes
Passing	2:35 - 2:38	3 minutes
Period 4	2:38 - 3:20	42 minutes
Passing	3:20 - 3:23	3 minutes
Period 8	3:23 - 4:05	42 minutes

2ND Lunch Schedule (Lunch B)		
Period 1	9:35 - 10:17	42 minutes
Passing	10:17 - 10:20	3 minutes
Period 5	10:20 - 11:02	42 minutes
Passing	11:02 - 11:05	3 minutes
Period 2	11:05 - 11:47	42 minutes
Passing	11:47 - 11:50	3 minutes
Period 6	11:50 - 12:32	42 minutes
Passing	12:32 - 12:35	3 minutes
2nd Lunch	12:35 - 1:05	30 minutes
Passing	1:05 - 1:08	3 minutes
Period 3	1:08 - 1:50	42 minutes
Passing	1:50 - 1:53	3 minutes
Period 7	1:53 - 2:35	42 minutes
Passing	2:35 - 2:38	3 minutes
Period 4	2:38 - 3:20	42 minutes
Passing	3:20 - 3:23	3 minutes
Period 8	3:23 - 4:05	42 minutes

*i*Tech Preparatory is a project and problem based learning (PBL) school designed to prepare students for college. We have an alternating block schedule with eight class periods. Our schedule allows for longer class periods to support our PBL learning environment, where students are expected to conduct research and develop projects.

A unique aspect to our school is the requirement of our students to participate in **Presentations of Learning** and **Demonstrations of Learning** as part of the core program. These are in addition to the rigorous program requirements that must be met for an individual to graduate from *i*Tech Preparatory (see below).

Presentations of Learning happen within the classroom. Teachers may invite experts from the field or parents to participate as audience members in these presentations.

Demonstrations of Learning take place after school hours so that we may invite all interested community members to participate in the audience and to provide our students with their feedback on the student work.

At *i*Tech Preparatory, 21st Century Skills (teamwork, critical thinking, communication, etc.) are equally as important for our students to master as the curriculum. Presentations of Learning and Demonstrations of Learning are critical components in the development of these valuable skills.

*i*Tech Preparatory Program Requirements

Vancouver Public Schools Graduation Requirements

English	4.0 credits
Mathematics	3.0 credits
Social Studies	
• Contemporary World Problems & Civic Responsibilities	1.0 credit
• US History	1.0 credit
• World Themes: Washington Perspective	1.0 credit
Science (lab based)	3.0 credits
Career and Technical Ed	1.0 credit
Physical Education	1.5 credits
Health & Wellness	0.5 credit
Art/PPR	2.0 credit
Electives	4.0 credits
World Language or PPR	2.0 credits
Total Credits Required	**24.0 credits**

See Pg. 11 "Washington State Assessment And Graduation Requirements" for Testing Requirements.

Vancouver *i*Tech Preparatory Program Requirements

English	4.0 credits
Mathematics	4.0 credits
Social Studies	
• AP Comparative Govt.	1.0 credit
• AP US History	1.0 credit
• AP Human Geography	1.0 credit
• World Themes	1.0 credit
Science	
• Biology	1.0 credit
• Physics	1.0 credit
• Chemistry	1.0 credit
• Elective	1.0 credit
Spanish	4.0 credits
Art	1.0 credit
Career and Technical Ed	1.0 credit
Physical Education	1.5 credits
Health	0.5 credit
Electives *(4 must be STEM related)*	8.0 credits
Total Credits Required	**32 credits**

POST SECONDARY SUCCESS

4-YEAR COLLEGE ADMISSIONS REQUIREMENTS*

Students who have an idea of which college they wish to attend should go to the Career Center to research the entrance requirements for that school. Students who are undecided should consider the following general guidelines.

English - 4 Credits: including 3 credits of college preparatory composition or literature. One credit may be satisfied by courses in drama as literature, public speaking, debate, journalistic writing, business English, English as a Second Language, or Learning Support English.

Mathematics - 3 Credits: Algebra I, Geometry, and Algebra II.

Science - 2 Credits: One credit must be in biology, chemistry, or physics (this course may also meet the algebra-based requirement).

Social Science - 3 credits of history or other social science (World Themes, U.S. History, Contemporary World Problems and Civic Responsibilities).

Arts - 1 credit of fine, visual, or performing arts - or 1 additional credit in other CADR academic subject areas as defined above. Acceptable coursework in the fine, visual, or performing arts includes art appreciation, band, ceramics, choir, dance, dramatics performance and production, drawing, fiber arts, graphic arts, metal design, music appreciation, music theory, orchestra, painting, photography, print making, or sculpture.

World Languages - 2 credits must be earned in the same World Language, Native American language, or American Sign Language.

Senior Year Math-Based Quantitative Course: During the senior year of high school, students must earn a credit in a math-based quantitative course. This requirement may be met through enrollment in one of the three required math courses listed above; or by completing a math-based quantitative course like statistics, applied math, or appropriate career and technical courses; or by completing an algebra-based science course taken during the senior year that would satisfy this requirement and part of the science requirement below.

*Please consult college admission counselors regarding specific requirements.

Any student planning to attend a four-year college/university should take the SAT or ACT.

CAREER/TECHNICAL AND COMMUNITY COLLEGE REQUIREMENTS

There are many educational institutions for career/technical education in addition to many community colleges throughout the state of Washington. Regular admission leading to an AS degree (Associate of Science, one to two year program certification) or an AA degree (Associates of Arts leading to a BA degree), students need to complete the following:

1. As many math and science courses as possible.
2. Submit an official high school transcript or GED test results.
3. Complete entrance exams.

It is strongly recommended that students take the same course of study required for entrance to a 4-year college.

REQUIREMENTS FOR MILITARY SERVICE

The armed forces constitute America's largest employer. Military service provides educational opportunities and work experience in literally hundreds of occupations. The following are important requirements to keep in mind if planning to enter a branch of the military:

1. High School Diploma Required
2. No criminal record
3. At least 17 years of age
4. Drug free life-style
5. Physically qualified
6. Good moral character

Entrance into the Military also requires the completion of the Armed Services Vocational Aptitude Battery (ASVAB) assessment. Each branch of the military has a different minimum qualifying score, which fluctuates over time. Please see your Career Center for more information.

ASVAB

(The Armed Service Vocational Aptitude Battery) Grades 10, 11, and 12

The ASVAB is conducted by the US Department of Defense at no cost or obligation to the student. This test is conducted during the fall. The student may also use these results in making career choices. The military uses this assessment to determine job assignments if an individual elects to enlist in the military.

CLARK COLLEGE AND WSUV EXTENDED OPPORTUNITIES AT iTECH PREPARATORY

Being on the Washington State University Vancouver campus, *i*TECH Preparatory has the unique ability to provide extended opportunities for our high school sophomores, juniors and seniors. These extended opportunities include a variety of college classes that our students can access on our campus in the Clark College building as well as on the Washington State University Vancouver campus. Students can create and customize a program that includes *i*TECH Preparatory classes along with Clark College and Washington State University Vancouver classes within the school day. Students receive both HS and college credits in this program.

These extended opportunities are in addition to the Clark College Running Start Program which our Junior and Senior students can also access as long as they are enrolled in a Research and Design course at *i*TECH Preparatory.

Specific information of class offering and option can be found in our Program Options Guide.

Space is limited to available seats and student selection is bases on the Selections Component Rubric below.

Clark College & WSUV Early College Selections Component Rubric

*i*Tech Preparatory is an early college school and as such Vancouver Public Schools may contract for services from Clark College and Washington State University Vancouver that affords our students early enrollment opportunities to college courses.

STEP 1:

To qualify for early enrollment opportunities with Clark College and WSUV:

- Students must be on track to graduate on time from VPS and *i*Tech Preparatory,
- Be a 10th grade student (9th under unique circumstances) to take classes through Clark College or
- Be **16 years** of age by the time classes begin for the semester to take classes through Washington State University Vancouver (WSUV),
- Meet qualification rubric requirements

STEP 2:

Table 1 on the next page is the rubric for selection of qualifying students under this program. Students expressing interest will be ranked based on their total score for all areas and allotted seats in classes based on their ranking. Although a student may qualify, the number of seats in any class may be limited resulting in some students not receiving placement in a class for that quarter or semester. Note: qualifying sophomore (or freshmen) students are limited to one class a quarter at Clark or one class a semester at WSUV. Junior and Senior students may take more than one class through WSUV. All students must maintain a **3.0 GPA** in their college class(es) to be eligible to take another college class through this contracted program.

Continued on next page

Table 1. Selection Components Rubric					
Points Awarded	**English Readiness Assessment**	**Teacher Recommendations "yes"**	**GPA**	**Attendance**	**Discipline**
4	Qualifies for ENGL& 101	All	4.00 – 3.75	No unexcused Absences	None
3	If the student does not qualify for ENGL& 101 they cannot take a class	All minus one	3.74 – 3.50	1 unexcused	1 - 2 minor infractions/no major infractions
2		All minus two	3.49 – 3.25	2 unexcused	3 minor/no major
1		N/A	3.24 – 3.00	3 unexcused	4 minor/no major
0		All minus three Cannot Take Class	Less than 3.00 Cannot Take Class	4 unexcused Cannot Take Class	5 or more infractions or any major infractions Cannot Take Class
NOTE: There is limited space in each course, and students with the highest overall score will be considered for the available courses. Teacher recommendation from the subject area of the requested course are required.					TOTAL SCORE:

*A tie score will result in a blind lottery ranking for students with that score for purposes of placement in classes.

STEP 3:

If a student qualifies for early enrollment based on STEP 1 <u>and</u> meets the eligibility components based on the Selection Components Rubric in STEP 2, the following also applies in determination of placement.

A number of factors influence the ability of our students to take college courses through this program. Those factors include, but are not limited to:

- course availability (not all courses are open to this program),
- the seats allotted for our students as determined by the college or university,
- the time of day the courses are offered (college courses may NOT overlap high school classes or require missing all or part of a class at either institution), and
- the progression of the student toward meeting all VPS graduation and *i*Tech Preparatory program requirements (transcript review).

Prior to each academic year, Clark and WSUV in consultation with VPS staff and administrators will select the courses that are available for enrollment of *i*Tech Preparatory students. Some courses may contain topics or include material intended for adults. Clark and WSUV will not undertake either monitoring of activities and behavior or provision of parental controls as part of the learning program.

VPS does not guarantee, in any given quarter or semester, to contract for services with Clark College and/or WSUV.

Tuition for classes taken under contract for services will be covered. All other expenses will be the responsibility of the student and the student's family. Other expenses include, but are not limited to, testing fees, a registration fee, a matriculation fee, books, class fees, and lab fees.

*If college classes fall outside of the school day, school district calendar for student attendance days, or take place off campus, transportation to and from the classes is the responsibility of the parent or guardian. Students are required to attend all college classes even if they are outside of the school day or district calendar for student attendance days.

Vancouver iTech Preparatory

2020-2021 Course Offerings

HIGH SCHOOL ACADEMIC COURSE DESCRIPTIONS
ENGLISH/LITERACY

English 9/10 (Composition)
Available 2020-2021 School Year

Course code: 2161/2162
Open to grades: 9-10
Length: 2 Semesters
Credit earned: 1.0 English

Students will deepen their thinking, reading and writing skills through the study of literature and non-fiction. Students will study a variety of literary and informational texts emphasizing critical thinking, literacy development and the tools essential for clear and effective writing in a variety of expository and persuasive forms. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning. There will be an emphasis on effective writing skills, vocabulary acquisition, and analysis or both literary and informational texts.

English 9/10 (Communications)
Available 2021-2022 School year

Course code: 2131/2132
Open to grades: 9-10
Length: 2 Semesters
Credit earned: 1.0 English

Students will deepen their thinking, speaking, reading and writing skills through the study of multiple genres. Students will study a variety of literary and informational texts emphasizing critical thinking, literacy development and the tools essential for clear and effective writing in a variety of forms. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning. There will be an emphasis on effective communication using both literary and informational texts.

ENGLISH/LITERACY

Advanced Placement (AP) Language and Composition
Available 2020-2021 School Year

Course code: 2351/2352
Open to grades: 11-12
Length: 2 Semesters
Credit earned: 1.0 English

The AP Language and Composition course is designed to help students become skilled readers of prose from a variety of periods, disciplines, and rhetorical contexts. The students will also become skilled writers who can compose for a variety of purposes. Through writing and reading experiences in this course, students should become aware of the interactions among writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effective writing. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

Advanced Placement (AP) Literature and Composition –
Available 2021-2022 School Year

Course code: 2371/2372
Open to grades: 11-12
Length: 2 Semesters
Credit earned: 1.0 English

The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning. This course prepares students to take the AP English Literature and Composition Exam.

FITNESS AND HEALTH

Physiology of Sports and Fitness

Course code: 6171/6172
Open to grades: 9
Length: 2 Semesters
Credit earned: 0.5 Physical Education, 0.5 Health

Physiology of Sports and Fitness- This academically based program will offer a wide variety of coeducational activities as well as educational opportunities. Activities and educational opportunities are selected to help the student develop physical skills, fitness, and an understanding of the physiology of sports and fitness. A variety of activity units will be offered, as well as projects that help students develop their understanding of physiology. Students also develop a personalized fitness plan. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

Biomechanics of Movement

Course code: 6245/6246
Open to grades: 10
Length: 2 semesters
Credit earned: 1.0 Physical Education

Experimental techniques to study human and animal movement including motion capture systems, EMG, force plates, medical imaging, and animation along with the mechanical properties of muscle and tendon, and quantitative analysis of musculoskeletal geometry will be emphasized. Projects and demonstrations will focus on the applications of mechanics in sports, orthopedics, and rehibilitation. This class will incorporate a component of physical activity as well as a required log of physical excersize to be done as an extended learning opportunity. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

MATHEMATICS

Algebra 1 A and B

Course Code: M3101/M3102
Open to grades: 9-10-11
Length: 2 Semesters
Credit earned: 1.0 Math

This course is a formal study of first-year algebraic content. Students will develop their understanding of algebraic concepts and skills as they work with equations, inequalities, and functions. Other topics include linear, quadratic, and exponential functions, as well as data collection, analysis, and probability. This course expects students to solve problems, reason logically, draw conclusions, communicate understanding, and make connections to the real world using concepts from the course. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

Geometry A and B

Course Code: M3201/M3202
Open to grades: 9-10-11
Length: 2 Semesters
Credit earned: 1.0 Math

This course is a formal study of first-year geometric content. Students will develop their understanding of geometric concepts and skills as they work with the properties and attributes of triangles, quadrilaterals, polygons, and circles. Other topics include geometric reasoning and proof, lines, right triangles and trigonometry. This course expects students to solve problems, reason logically, draw conclusions, communicate understanding, and make connections to the real world using concepts from the course. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

Algebra 2 A and B

Course Code: M3301/M3302
Open to grades: 9-10-11
Length: 2 Semesters
Credit earned: 1.0 Math

This course is a formal study of second-year algebraic content. Students will further develop their understanding of algebraic concepts and skills as they work with linear functions and systems. A variety of function families will be explored, including quadratic, polynomial, exponential, rational, radical, and trigonometric functions. Other topics include matrices, probability, and statistics. This course expects students to solve problems, reason logically, draw conclusions, communicate understanding, and make connections to the real world using concepts from the course. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

MATHEMATICS

Pre-Calculus

Course code: 3721/3722
Open to grades: 9-10-11-12
Length: 2 Semesters
Credit earned: 1.0 Math
Prerequisite: *C or better in Algebra 2*

This course represents a stepping stone to advanced placement mathematics courses. Students further explore functions, complex numbers, conic sections, hypothesis testing, and derivatives. This course expects students to solve problems, reason logically, communicate understanding, and make connections to the real world using concepts such as cartography, insurance, and compound interest. A graphing calculator is required. This class is highly recommended for students looking to further their education in mathematics. Students will demonstrate their understanding through project and problem based learning.

Advanced Placement (AP) Statistics

Course code: 3761/3762
Open to grades: 10-11-12
Length: 2 Semesters
Credit earned: 1.0 Math
Prerequisite: C or better in Algebra 2

This class is of particular value to a student planning to do research projects or continue to develop quantitative skills. Successful completion of this class is equivalent to an introductory course in statistics in most colleges. Students will learn to collect data according to a well-developed plan. Exploratory analysis of data will involve distribution probability, graphical and numerical study of patterns and the use of appropriate models. Students will be prepared to take the AP Statistics exam at the end of the class. A graphing calculator is needed. Students will demonstrate their understanding through project and problem based learning.

Mathematics of Art

Course code:
Open to grades: 10-11-12
Length: 2 Semesters
Credit earned: 1.0 Math
Prerequisite: *C or better in Algebra 2*

During The Mathematics of Art students will get to see advanced mathematics in the world. Students will go into depth on topics including physical works of art, music, movies, architecture, nature, and many other topics. This course will focus on learning advanced mathematic topics based on how they are applied in art. While art is a focus of this course, it will be a math credit and students will not be assessed on their artistic abilities. The course will include some artistic projects, but the students will be assessed on how they apply the relevant mathematics to the art.

STEM ELECTIVES

Mechanics of Robots

Open to grades: 9-12
Length: 2 semesters
Credit earned: 1.0 STEM Elective

In the process of learning to design, build and program robots to accomplish various challenges/missions, students will be immersed in physics, geometry, electronics, programming, logic, computer control and mechanics—and it will be fun! Students will focus on understanding the science behind how robots work, develop a systematic approach to solving robot problems and then learn to write programs that make the robot perform a variety of increasingly complex tasks. At the end of the second semester, students will explore automated systems then work with other students to design automated systems that can perform a task.

Electronics Applications

Open to grades: 9-12
Length: 2 semesters
Credit earned: 1.0 STEM Elective

Robots and digital products rely on electronics comprised of circuit boards with analog and digital components. In today's world of electronic devices—cellular phones, computers, digital cameras, televisions and robots—digital electronics are key. In this course, students will study electronic circuits, from their components to how they are created and used. Students will then apply their electronic knowledge by wiring circuits to accomplish a task: building robots, creating wearable electronics, creating automated systems-- the possibilities are endless. Just as required in engineering work, this course will help students develop teamwork, leadership and project management skills

Advanced Placement Computer Science A

Open to grades: 9-12
Length: 2 semesters
Credit earned: 1.0 STEM Elective

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. It is meant to be the equivalent of a first-semester college-level course in computer science. This course will prepare students to take the AP Computer Science Exam in early May which requires the use of the Java Programming language. The class will focus on the AP Java Subset as outlined in Appendix A of the AP Computer Science Course Description. See for more information on Computer Science A. College bound students are encouraged to check with each college they may apply to in order to determine if each college will accept this course as a math credit for college admissions.

Topics include:

- Object-Oriented Program Design (program and class design)
- Program Implementation (Java library classes and interfaces included in the AP Java Subset)
- Standard Data Structures (data types, strings, classes, lists, arrays)
- Standard Operations and Algorithms (operations on data structures, searching, sorting)
- Computing in Context (system reliability, privacy, and legal, social and ethical issues)

STEM ELECTIVES

Astronomy

Course code: 7601/7602
Open to grades: 9-12
Length: 2 Semesters
Credit earned: 1.0 STEM Elective/Science Elective

This course will familiarize students with our solar system, our galaxy, and our universe. Topics include life cycles of stars, black holes, the nine planets, asteroids, comets, moons, as well as the organization and history of the universe and space exploration. Coursework will include laboratory activities, projects and observation of the stars, planets and moon.

Studio Art: STEM Unplugged

Course Code: 2731V/2732V
Open to grades: 10-12
Length: 2 Semesters
Credit Earned: 1.0 STEM Elective

Course Description
Studio Art: STEM Topics Unplugged, is a yearlong course that provides students with an opportunity to explore a range of art media as they approach various STEM topics while extracting meaningful themes from within them. Students will engage in critical thinking and problem solving as they work to visually depict STEM topics in innovative ways. Students will gain experience in a range of media to provide them with a broad skillset to draw from when identifying the best approaches to depict their work. Emphasis will be placed on developing a strong demonstration of the design process, self-reflection and group critiques to reinforce the refinement of student work. Students are expected to showcase their work publicly, develop a portfolio of their work and document their ideas, concepts, and technical development over time. In this course, technology will be used sparingly but strategically. Technology will be intentionally limited in scope with a greater emphasis on the hands-on, hand-built, hand-rendered processes to provide an alternative mode for students to explore content.

Introduction to the Philosophy of Science

Open to grades: 9-12
Length: 2 Semesters
Credit earned: 1.0 STEM Elective

This college preparatory course will explore what science is, what it does, and how it works. Topics in both natural and social sciences will be covered. It will begin with early Greek philosophy and science and move through modern philosophy of Physics. Students will be asked to address questions about things like what are the conceptual consequences that science imposes on our philosophies of knowledge and nature, should science purport to give us a literally true picture of the world, how does scientific culture fit into the culture of larger society? Students will engage in exploration of these concepts largely through problem based learning, the Socratic Seminar method, and engaging in hands-on activities through experiments. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

STEM ELECTIVES

Digital Photography

(Photography I and II will be taken as a series for a full year offering)

Open to grades: 9-12
Length: 2 Semesters
Credit earned: 1.0 STEM Elective

Digital Photography- New Perspectives through a STEM Lens. In this course, students will gain an understanding of the history of photography, camera operation and control, composition, exposure, lighting, digital editing as well as an increased understanding of the elements of art and principles of design. With a STEM focus, students will investigate science fields including forensics, biology, physics and geoscience as they dive into the world of photography. Students will gain an understanding of how photography is used in scientific research, documentation and discovery as they investigate the visible and invisible light spectrum through digital photomicrography, time lapse and high speed photography, and photo storytelling. Students will continue to gain experience with Adobe Photoshop to aid in the manipulation of their photos. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

Issues in Technology and the Environment

Course codes: 7171/7172
Open to grades: 9-12
Length: 2 Semesters
Credit earned: 1.0 STEM Elective

There is an expanding knowledge that the planet's many systems are stressed beyond sustainability. The roots of many of the problems leading to diminished environmental quality may be found in the everyday behavior of the people who inhabit the earth. Identifying the causes and possible solutions to environmental problems will require a knowledgeable and skilled citizenry. Education is the key to creating a population aware of its responsibilities for stewardship. However, the problems and solutions of environmental issues go beyond the boundaries of a single discipline.

The goal of this course is to offer participating students a clear vision of the interrelationships between technology and the environment. Its interdisciplinary nature will provide students with creative tools and critical skills that will help them find innovative solutions to complex technological and environmental issues.
They will gain an understanding of the environmental consequences of technological development, the complex environmental challenges facing the planet, and the knowledge and skills to participate actively in solving technological and environmental problems. They will come away from this experience with the ability to infuse environmental perspectives into all their courses of study. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning

STEM ELECTIVES

Everyday Engineering (11th & 12th grade only)

Open to grades: 11-12
Length: 2 Semesters
Credit earned: 1.0 STEM Elective

Everyday Engineering is a higher level engineering projects course. Each semester of the course will be focused on a specific STEM field developing innovative, experimental and original product designs with a solution driven focus to community issues. Students will work collaboratively in small groups to design and create a solution to a specific real-world problem in the field. They will gain experience working through the engineering design cycle and learn content to help support their development of a solution. Beyond the theoretical, students develop strategies to follow through with making physical prototypes and products.

Animatronics

Open to grades: 9-12
Length: 2 Semesters
Credit earned: 1.0 STEM Elective

Animatronics is where electronics, robotics and art collide. Students will apply their skills in these areas as they design, build and program objects for different tasks. Once students understand how everything works together, they will be completing a project where they build an animatronic to meet a need in the community.

MISCELLANEOUS ELECTIVE

Leadership

Course codes: 8451/8452
Open to grades: 9-10-11
Length: 2 Semesters
Credit earned: 1.0 Elective

Leadership provides opportunities for students to learn communication and social skills, critically examine the cultural norms of both American society and those of other societies, and ultimately come to explore their own role as team players. Leadership topics include sociological and psychological theories, body language and communication, and philanthropy, with a focus on public speaking. Students will be exposed to real world opportunities to take on leadership roles in the community. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

SCIENCE

Biology

Course Code: 7431/7432
Open to grades: 9
Length: 2 Semesters
Credit earned: 1.0 Science

This course provides a systematic approach to the biological sciences and it emphasizes energy transfer and regulation in living systems. The student will study the component structures of living systems such as organelles, cells, organs, organisms, and ecosystems. Students will investigate interactions in biomes, ecosystems, communities and populations. Laboratory activities will help the student develop the knowledge and skills necessary to do scientific inquiry. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

Pre-Engineering Physics

Course Code: 7841/7842
Open to grades: 10
Length: 2 Semesters
Credit earned: 1.0 Science

This college preparatory course provides students with a solid foundation in physics using engineering design principles for exploration of content. Students are introduced to the principles of physics using familiar objects and phenomena, such as airplanes, cameras, computers, engines, refrigerators, lightning, radio, microwave ovens, and flourescent lights. Problem-solving, hands-on activities, experiments, projects, and real world applications of the physics concepts are the basis for this course. Students will be required to complete a research project that identifies an issue in the real world and create a product of original design that addresses that issue. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

Chemistry

Course Code: 7731/7732
Open to grades: 11
Length: 2 Semesters
Credit earned: 1.0 Science

This course covers topics such as the structure of the atom, periodic table, acids and bases, chemical reactions, and gas laws. The theoretical basis of chemical reaction is studied as well as practical applications as evidenced in laboratory experiments, problem solving and cooperative learning. A strong background in algebra is required. Chemistry is highly recommended for students entering four-year universities or planning a science-related career. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

SCIENCE ELECTIVES

Astronomy

Course code: 7601/7602
Open to grades: 9-12
Length: 2 Semesters
Credit earned: 1.0 Science/Elective

This course will familiarize students with our solar system, our galaxy, and our universe. Topics include life cycles of stars, black holes, the nine planets, asteroids, comets, moons, as well as the organization and history of the universe and space exploration. Coursework will include laboratory activities, projects and observation of the stars, planets and moon.

Advanced Physics

Course Code: 7151/7152, 7151V/7152V
Open to grades: 11-12
Length: 2 Semesters
Credit earned: 1.0 Science or 1.0 Math
Prerequisite: *C or better in Pre-Engineering Physics, C or better in Pre-Calculus or concurrent enrollment*

In Advanced Physics students will gain both a broader and more in-depth understanding of Physics compared to their first year of study in Pre-Engineering Physics taken sophomore year. This course will focus on research and lab skills, mathematical analysis of physical systems using calculus, and physics content such as electrodynamics, thermodynamics, mechanics, modern physics (quantum mechanics and particle physics), and optics. The intent of this course is to provide students an opportunity to learn first year calculus as it applies to physics. The physics content provided will cover topics generally covered in 1st and 2nd year college physics.

Issues in Technology and the Environment

Course codes: 7171/7172
Open to grades: 9-12
Length: 2 Semesters
Credit earned: 1.0 Elective/Science Elective

There is an expanding knowledge that the planet's many systems are stressed beyond sustainability. The roots of many of the problems leading to diminished environmental quality may be found in the everyday behavior of the people who inhabit the earth. Identifying the causes and possible solutions to environmental problems will require a knowledgeable and skilled citizenry. Education is the key to creating a population aware of its responsibilities for stewardship. However, the problems and solutions of environmental issues go beyond the boundaries of a single discipline.

The goal of this course is to offer participating students a clear vision of the interrelationships between technology and the environment. Its interdisciplinary nature will provide students with creative tools and critical skills that will help them find innovative solutions to complex technological and environmental issues.
They will gain an understanding of the environmental consequences of technological development, the complex environmental challenges facing the planet, and the knowledge and skills to participate actively in solving technological and environmental problems. They will come away from this experience with the ability to infuse environmental perspectives into all their courses of study. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning

9TH & 10TH GRADE SOCIAL STUDIES

World Themes: Washington Perspectives (2020-2021)

Course code: 8051/8052
Open to grades: 9-10-11-12
Length: 2 Semesters
Credit earned: 1.0 Social Studies

World Themes is a two semester offering. Each semester will engage students in a dynamic study of global perspectives on various themes. For example themes such as conflict, technologies, etc. will be examined through the lenses of history, economics, civics, and geography. Each thematic study will link to the Washington context in order to give students an understanding of the role the state has played in world events.

Advanced Placement (AP) Human Geography (2021-2022)

Course code: 8091/8092
Open to grade: 9/10
Length: 2 semesters
Credit earned: 1.0 Social Studies

The AP Human Geography course introduces students to the importance of spatial organization—the location of places, people, and events, and the connections among places and landscapes—in the understanding of human life on Earth. A significant outcome of the course is students' awareness of the relevance of academic geography to everyday life and decision making. The course provides students with a global perspective on issues such as population, migration, culture, language, religion, ethnicity, political geography, economic development, industry, agriculture, and urban geography. Through this study, students will understand the cause and effect patterns of human interactions with the environment, with each other, and with historical events. This course is an alternative to World Themes: Washington Perspectives and will fulfill the 10th grade social studies credit. A pre-requisite for enrollment in this course is passing all three trimesters of the 7th grade Washington State History course. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

SOCIAL STUDIES

Advanced Placement (AP) U.S. History

Course code: 8241/8242
Open to grades: 11
Length: 2 Semesters
Credit earned: 1.0 credit US History

The AP program in U.S. History is designed to provide students with analysis skills and factual knowledge necessary to deal critically with the problems, issues, and materials in United States History. Students will learn to assess historical materials – their relevance to a given interpretive problem, their reliability and their importance – and weigh the evidence and interpretations presented in historical scholarships. (College Board)

The course will prepare students for collegiate academic study by making demands upon them equivalent to a college course. Students are encouraged but not required to take the AP U.S. History test and the SAT II US History test. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

Advanced Placement (AP) Comparative Government

Course code: 8441/8442
Open to grade: 12
Length: 2 Semesters
Credit earned: 1.0 CWP credit

The AP course in Comparative Government and Politics introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. Comparison assists both in identifying problems and in analyzing policy making. **The course fulfills the Contemporary World Problems requirement.**

The course will prepare students for collegiate academic study by making demands upon them equivalent to a college course. Students are encouraged but not required to take the AP Comparative Government test. It is strongly recommended that students in preparation for this class participate in the Pre – AP and AP programs offered in the 9th through 11th grade years. Students will demonstrate their understanding through project and problem based learning. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

VISUAL AND PERFORMING ARTS

Visual Art/Design II

Course codes: 4155V/4155V
Open to grades: 9-12
Length: 2 Semesters
Credit earned: 1.0 Art

In Visual Art/Design II, students will take a journey through art as they develop a body of work along various branches of STEM, including but not limited to topics within forensics and criminology, human anatomy, geoscience, microbiology, toxicology and mathematics. Students will investigate these topics while gaining experience in portrait drawing, mixed media, watercolor, acrylic painting, charcoal, various forms of sculpture, street art, and printmaking as well as the Adobe Creative Suite to communicate their ideas in a visual format. It will be expected that students photograph their work to be compiled in a digital portfolio by the end of the course. Students will frequently share their work with their peers as well as during demonstrations of learning. This course will increase the student's understanding of the elements of art and principles of design while deepening their understanding of global STEM issues. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

OCCUPATIONAL EDUCATION

Pre-engineering Design

Course codes: 4771/4772
Open to grades: 10-11
Length: 2 Semesters
Credit earned: 1.0 Occupational Education

In Pre-Engineering Design Technology, students gain an understanding of abstraction, investigate the meaning of "form follows function," as well as develop a fundamental understanding of hand drafting, AutoCAD, digital modeling, physical model-making, green design and architecture history. Although students all work on common skills, they are given the choice to approach their projects from an engineering, industrial design, or architecture standpoint given their own interests. Upon successful completion of the course, students can expect to have broadened their skillset and ability to work with digital and physical media. . Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

WORLD LANGUAGE

Spanish 1

Open to grades: 9-10
Length: 2 semesters
Credit earned: Elective 1.0

The first year is an introduction to the skills of listening, speaking, reading and writing, with an exposure to the history and culture of the people.

The communicative purposes and functions introduced at this level address the basic interactions of everyday life, e.g. introductions, greetings, expression of needs, interests and desires, and an introduction to the target culture. Students will be able to communicate in controlled situations and begin to apply their skills in real situations. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

Spanish 2

Course Code: 1521/1522
Open to grades: 9-10-11
Length: 2 semesters
Credit earned: Elective 1.0

The second year study of foreign language expands upon the vocabulary and structure of language with continued development of the four skills of listening, speaking, reading and writing.

The communicative purposes and functions include interactions with friends, daily routine, traveling, the past and the future, self and self-image, pastimes, school here and abroad, environment, etc. Continued study of culture is an important element of this course. Students will be able to communicate in an increasing number of real situations. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning.

Spanish 3

Course Code: 1531/1532
Open to grades: 9-10-11
Length: 2 semesters
Credit earned: Elective 1.0

Third year study of foreign language builds upon skills and proficiency learned in second year while addressing more complex language situations.

The communicative purposes and functions include interactions relating to health, art, music, legends, the press, self and others, world view, and intro to the literature, etc. Continued study of culture is an important element of this course. Students will be able to synthesize and communicate spontaneously in the language of study. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning

Advanced Placement (AP) Spanish Language and Culture

Course code: 1541/1542
Open to grades: 11-12
Length: 2 Semesters
Credit earned: 1.0 elective credit
Prerequisite: *Spanish (Language) 3*

This course is a higher intermediate level class addressing increasingly complex language situations and interactions. Course objectives include more fluent communication and an increased emphasis on literature.

The communicative purposes and functions include an in-depth study of language learning in the previous years of study with further development as well as an expansion of literary study. Students will be able to communicate comfortably with native speakers of the studied language in many situations. This course will prepare students for success on the AP Spanish Language and Culture exam. Course content is collaboratively developed with other subject areas to support the school's projects for the year. Students will demonstrate their understanding through project and problem based learning

Translation and Interpretation

Course code: 1641/1642
Open to grades: 11-12
Length: 2 Semesters
Credit earned: 1.0 Occupational Education
Prerequisite: *Proficiency in Reading, Writing, Listening and Speaking English and Spanish or Native Speaker*
Given our global economy, world direction, and the diversity of our communities knowing two languages not only allows for better communication with other people, but also opens doors to many new job opportunities. There is a need for certified interpreters and translators in many fields. In this class, students will develop consecutive and simultaneous interpreting skills and become competent in the use of Medical/Technical, Legal, Educational, and Social Services terminologies. Further, students will develop an understanding and appreciation for cultural diversity issues inherent in interpretation and translation, ethical issues relevant to interpreters, and code of conduct for interpreters. Finally, students will develop work readiness skills and certification opportunities upon completion of course! Students will demonstrate their understanding through project and problem based learning.

SECONDARY PROGRAMS OF CHOICE

…MAGNET PROGRAMS OF CHOICE…

Vancouver high schools feature magnet programs for students with a strong interest in a concentrated field of study. Curriculum and instruction allow students to center learning around their areas of interest, while ensuring student competency in reading, writing, communication, and mathematics. Students may choose to attend a magnet program at one of the following high schools in the district:

INTERNATIONAL BACCALAUREATE MAGNET @ COLUMBIA RIVER HIGH SCHOOL (Grade 9-12)

International Baccalaureate is a worldwide honors program with an internationally designed curriculum stressing the importance of expertise in all academic areas and helping students develop critical thinking and research skills that will facilitate their success both at college and within the larger global society. The Pre-Baccalaureate program in grades 9 and 10 prepares students for the rigorous course of studies at the 11th and 12th grade. IB courses are offered in the areas of English/Literature, Mathematics, French, Spanish, German, History, Biology, Chemistry, Physics, Philosophy, Art, Music and Film/Movie Making. Successful completion of one or more of these courses and exams leads to college credit recognized at universities throughout the world. Completion of the entire IB Diploma Program may result in priority admission to universities, increased college credit and additional scholarship opportunities. Throughout both stages of the program, students are encouraged to develop their skills in time management and problem solving, view multiple perspectives and reflect on their learning as they apply it to new situations.

MEDICAL ARTS MAGNET @ FORT VANCOUVER HIGH SCHOOL (Grades 9-12)

The mission of the Medical Arts Magnet of Fort Vancouver High School is to introduce students to the expanding field of health care. The magnet is a four-year program with a curriculum that focuses on a selected body of knowledge, skills and attitudes needed for careers in the health care fields. Students will use health, wellness, science, math, technology and medicine as a central theme around which they will structure their high school experience. The four core classes for the magnet include: Health Sciences and Careers, Athletic Medicine, Medical Terminology and Psychology and Health Issues. Magnet students in good academic standing will be eligible to participate in 4 hours of field experience in their junior and senior years. Upon graduation, magnet students will have the skills or the base knowledge to continue in a technical or two/four year college experience.

Students in the Medical Magnet may also earn up to 16 Clark College Credits. The 16 Core Curriculum credits for the Health Sciences Strand prepare students to enter one of many Clark College Certification programs including Pharmacy Tech, Medical Billing and Coding, Medical Receptionist and Medical Transcriptionist.

BAY ACES MAGNET @ HUDSON'S BAY HIGH SCHOOL (Grades 9-12)

The Bay ACES Magnet prepares students for a wide range of design related careers – Architecture, Industrial Design, Interior Design (Environmental/Sustainable Design), Horticulture and Agriculture Production Specialists, Engineers (Environmental/Pollution Control, Sustainable Energy), Environmental Scientist, and Careers in Natural Resources field. The ACES Magnet program is dedicated to providing a challenging academic program that prepares students with the skills to enter the workforce directly and the base knowledge to continue in a technical or four-year college experience and beyond. These courses emphasize problem-solving skills and design processes. Individual and group research and design projects allow students to experience the integration of art, science and business to design a more sustainable world. Students will be eligible to earn a Magnet Certificate of Distinguished Completion. Requirements include: Completed Application, 2 Intro Courses, 1 Advanced Course, and a completed Culminating Project with Magnet focus.

SECONDARY PROGRAMS OF CHOICE

SCIENCE-MATHEMATICS-TECHNOLOGY MAGNET @ SKYVIEW HIGH SCHOOL (Grades 9-12)

The Skyview SMTM is dedicated to providing a challenging academic program that prepares students for college level study while letting them participate in a traditional high school experience. The program focuses on the integration of rigorous science, math, and technology content to solve difficult problems using a hands-on approach. Skyview SMTM also exclusively offers Project Lead The Way pre-engineering courses as well as DigiPen video game programming courses. These courses emphasize problem-solving skills and design processes used by engineers and programmers that are incorporated with state-of-the-art technology and hands-on projects. Advanced Placement (college level) science and math classes are also offered to earn college credit for universities within the United States. Individual and group research, design projects and academic competitions allow students to experience the challenges of their future careers. If a student is considering a career with a foundation in science, engineering, technology or math, then successful participation in the Skyview SMTM will ensure them the necessary course work to build a competitive transcript when applying for admission to future programs, colleges and universities.

VANCOUVER SCHOOL OF ARTS AND ACADEMICS SCHOOL OF CHOICE (Grades 6-12)

The Vancouver School of Arts and Academics offers a complete middle school and high school program where the arts are at the core of an interdisciplinary curriculum. All students study science, mathematics, social studies, English, and health, as well as artistic studies in dance, music, theatre, literary arts, visual arts, and moving image arts. The daily atmosphere of creative work, self-discipline, and collaboration prepares students for success in college, career and life. Advanced Placement courses are available in English, history, government, math, and visual art. World Language and Career and Technical Education courses are offered as well. All students at VSAA have the opportunity to explore each of the 6 art forms. At the high school-level, students progress into the more advanced focus level classes for their chosen art forms. Students may also participate in a variety of artistic and academic after-school clubs and activities. (All students must attend the school full time.)

LEWIS AND CLARK HIGH SCHOOL OF CHOICE (Grades 9-12)

Lewis and Clark is a school of choice blazing a trail for motivated, hard-working students who will excel in a non-traditional school setting. Lewis and Clark uses a NEW Blended Learning model that combines online education with face-to-face instruction.

At Lewis and Clark students attend school five days a week, but do not follow the traditional comprehensive high school schedule. Instruction is divided into classes and seminars led by highly qualified teachers and periods of time for independent online study with teacher supervision and support. Class schedules vary day to day based on a student's need and progress. Students who choose to attend Lewis and Clark are expected to take responsibility for themselves and their learning – where students have a great degree of control over the time, place, and pace of their education.

SECONDARY PROGRAMS OF CHOICE

VANCOUVER iTECH PREPARATORY SCHOOL OF CHOICE (Grades 6-12)

Vancouver iTech Preparatory is a school of choice for students interested in STEM fields (science, technology, engineering, and math). This school provides project-based learning opportunities in a technology-rich, 21st century learning environment. While iTech Prep has a STEM focus, art and design principles are integrated into the core curriculum. In addition, all students take Spanish. Curriculum is integrated across courses and iTech Prep takes a project-based learning, hands-on approach, where multiple subjects are addressed in each project. Yearly school-wide themes focus student learning on transferable knowledge and practical skills such as communication, collaboration, teamwork, and problem-solving. Students demonstrate and apply their knowledge as they design and engineer solutions to real-world problems. Curiosity as well as critical and creative thinking are nurtured in an environment in which the problem-solving process is as highly valued as the end product. For the 2014-15 school year, iTech Prep will serve grades 6-11. Grades will be added each year until the school is fully operating with 6th-12th grades. High school students will have the opportunity to earn college credit while at iTech Prep. Middle school students attend school at the Jim Parsley Community Center and high school students attend school at the Clark College Building on campus at Washington State University Vancouver. Transportation is provided.

SECONDARY HALF-DAY PROGRAMS OF CHOICE

Fort Vancouver High School provides two half-day programs of choice. These morning programs are open to all Vancouver Public Schools students. An application must be completed for students to be considered for acceptance into any half-day program of choice. The district provides transportation for any student who enrolls in any of these half-day programs of choice if the student's home school is other than Fort Vancouver High School.

APPLICATION PROCESS: Applications are reviewed and accepted based on genuine and expressed student interest as detailed through application completion.

Applications *are* accepted after the due date and acceptance is granted based on space availability.

CULINARY ARTS @ FORT VANCOUVER HIGH SCHOOL (Grades 10-12)

Extensive hands-on opportunities in catering, restaurant management, and food service offer Culinary Arts students "real-world" job experience while developing leadership, teambuilding, and employability skills. Students in this program have the opportunity to prepare and serve food for a variety of district-sponsored events, both formal and informal, while building skills ranging from customer service to barista to line cooking. Each student will complete an internship at the student operated Passport Café located at the Jim Parsley Center where they will work alongside the instructor as they put into practice the skills they have learned. Culinary students have the opportunity to join SkillsUSA and compete in regional, state, and national Leadership and Culinary competitions. This program is offered to students in grades 10-12 across the district as a half-day morning session.

MACHINE WELDING TECHNOLOGY @ FORT VANCOUVER HIGH SCHOOL (Grades 10-12)

This program is designed to provide students with the technical knowledge and skills to pursue welding and fabrication associated career opportunities. Safe work habits and the proper use of materials are stressed as students learn the application of tools, machines, and welding basics. They also learn blueprint reading, how to weld joints in all positions, and apply mathematics from basic math to trigonometry. This program is endorsed by a national industry consortium and student progress can be recorded in a national database for articulation to trades. OSHA-endorsed safety training can be earned and industry certification is available through the Amatrol and Toolin