

Vancouver *i*TECH Preparatory

Program of Studies 2015-2016

Vancouver *i*TECH Preparatory

Middle School: 4100 Plomondon Street, Vancouver, WA 98661

**High School: Clark College Building at Washington State University Vancouver
14204 NE Salmon Creek Avenue, Vancouver, WA 98686**

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Vancouver School District #37 Notice of Nondiscriminatory Policy

The Vancouver School District is an Equal Opportunity district in education programs, activities, services, and employment. Vancouver School District does not discriminate on the basis of race, creed, color, sex, national origin, marital status, sexual orientation, age, or the presence of any sensory, mental, or physical disability, or the use of a trained dog guide or service animal by a disabled person. We comply with Section 504 of the Rehabilitation Act of 1973, Section 402 of the Vietnam Era Veterans Readjustment Act of 1974, the Americans with Disabilities Act of 1990, the Civil Rights Act of 1964, the Age Discrimination in Employment Act, Older Worker Protection Act, and all other state, federal, and local equal opportunity laws.

If you have a physical or mental disability that causes you to need assistance to access school facilities, programs, or services, please notify the school principal. This district endeavors to maintain an atmosphere free from discrimination and harassment. Any person who believes he or she has been discriminated against should contact the school principal and complete the appropriate grievance or complaint form.

You may also contact any of the following people by writing to them at Vancouver School District, PO Box 8937, Vancouver, Washington 98668-8937 or by calling 360-313-1000: ADA – Bill Oman; Title VII, 504 and IDEA – Sally Charuhas; Affirmative Action – Bill Oman; Title IX Elementary, Marianne Thompson; Title IX Secondary, Kathy Everidge; Athletic Equity, Mick Hoffman.

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 iTech Preparatory Students and Community,

Welcome to iTech 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 iTech 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. iTech 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 iTech 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 iTech Preparatory!

Sincerely,



Christina Iremonger
Principal



iTECH PREPARATORY MISSION STATEMENT

iTECH Preparatory is a focused learning community which believes students learn best when all subjects are integrated. Through collaboration and inquiry, individuals are challenged to think critically and creatively in an effort to investigate relevant issues.

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.



iTECH PREPARATORY



Learn to explore and express different perspectives:

Natural Scientist
Mathematician
Engineer
Social Scientist

Writer
Artist
Global Citizen
Community Member



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

A (Monday & Wednesday) and B (Tuesday & Thursday) Bell Schedules

Regular Day

Period 1 or 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
Lunch A	11:26 - 11:56	30 minutes
Passing (A)	11:56 - 11:59	3 minutes
Period 2 or 6 A	11:59 - 1:19	80 minutes
Period 2 or 6 B	11:26 - 12:46	80 minutes
Passing (B)	12:46 - 12:49	3 minutes
Lunch B	12:49 - 1:19	30 minutes
Passing	1:19 - 1:22	3 minutes
Period 3 or 7	1:22 - 2:42	80 minutes
Passing	2:42 - 2:45	3 minutes
Period 4 or 8	2:45 - 4:05	80 minutes

One-Hour Early Release

Period 1 or 5	9:35 - 10:40	65 minutes
Passing	10:40 - 10:43	3 minutes
Advocacy	10:43 - 11:08	25 minutes
Passing	11:08 - 11:11	3 minutes
Lunch A	11:11 - 11:41	30 minutes
Passing (A)	11:41 - 11:44	3 minutes
Period 2 or 6 A	11:44 - 12:49	65 minutes
Period 2 or 6 B	11:11 - 12:16	65 minutes
Passing (B)	12:16 - 12:19	3 minutes
Lunch B	12:19 - 12:49	30 minutes
Passing	12:49 - 12:52	3 minutes
Period 3 or 7	12:52 - 1:57	65 minutes
Passing	1:57 - 2:00	3 minutes
Period 4 or 8	2:00 - 3:05	65 minutes

Two-Hour Early Release

Period 1 or 5	9:35 - 10:25	50 minutes
Passing	10:25 - 10:28	3 minutes
Advocacy	10:28 - 10:53	25 minutes
Passing	10:53 - 10:56	3 minutes
Lunch A	10:56 - 11:26	30 minutes
Passing (A)	11:26 - 11:29	3 minutes
Period 2 or 6 A	11:29 - 12:19	50 minutes
Period 2 or 6 B	10:56 - 11:46	50 minutes
Passing (B)	11:46 - 11:49	3 minutes
Lunch B	11:49 - 12:19	30 minutes
Passing	12:19 - 12:22	3 minutes
Period 3 or 7	12:22 - 1:12	50 minutes
Passing	1:12 - 1:15	3 minutes
Period 4 or 8	1:15 - 2:05	50 minutes

Two-Hour Late Arrival

Period 1 or 5	11:35 - 12:25	50 minutes
Passing	12:25 - 12:28	3 minutes
Advocacy	12:28 - 12:53	25 minutes
Passing	12:53 - 12:56	3 minutes
Lunch A	12:56 - 1:26	30 minutes
Passing (A)	1:26 - 1:29	3 minutes
Period 2 or 6 A	1:29 - 2:19	50 minutes
Period 2 or 6 B	12:56 - 1:46	50 minutes
Passing (B)	1:46 - 1:49	3 minutes
Lunch B	1:49 - 2:19	30 minutes
Passing	2:19 - 2:22	3 minutes
Period 3 or 7	2:22 - 3:12	50 minutes
Passing	3:12 - 3:15	3 minutes
Period 4 or 8	3:15 - 4:05	50 minutes

C (Friday) Bell Schedules

Regular Day

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 A	11:47-11:50	3 minutes
Lunch A	11:50-12:20	30 minutes
Period 6B	11:50-12:32	42 minutes
Passing B	12:32-12:35	3 minutes
Lunch B	12:35-1:05	30 minutes
Period 6A	12:35-1:05	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

One-Hour Early Release

Period 1	9:35 - 10:09	34 minutes
Passing	10:09 - 10:12	3 minutes
Period 2	10:12 - 10:46	34 minutes
Passing	10:46 - 10:49	3 minutes
Period 3	10:49 - 11:23	34 minutes
Passing (A)	11:23 - 11:26	3 minutes
Lunch A	11:26 - Noon	34 minutes
Period 4A	12:03 - 12:37	34 minutes
Period 4B	11:26 - Noon	34 minutes
Passing B	Noon - 12:03	3 minutes
Lunch B	12:03 - 12:37	34 minutes
Passing	12:37 - 12:40	3 minutes
Period 5	12:40 - 1:14	34 minutes
Passing	1:14 - 1:17	3 minutes
Period 6	1:17 - 1:51	34 minutes
Passing	1:51 - 1:54	3 minutes
Period 7	1:54 - 2:28	34 minutes
Passing	2:28 - 2:31	3 minutes
Period 8	2:31 - 3:05	34 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)	2.0 credits
Career and Technical Ed	1.0 credit
Physical Education	1.5 credits
Health & Wellness	0.5 credit
Art	1.0 credit
Electives	6.5 credits
Culminating Assessment Portfolio & Project	0.5 credit
Total Credits Required	23.0 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
• Elective	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 (<i>4 must be STEM related</i>)	8.0 credits
Total Credits Required	32 credits

Washington State Assessment and Graduation Requirements

Class of...	English Language Arts		Mathematics	Science
2014	Reading HSPE	Writing HSPE	Either Algebra 1/Integrated Math 1 or Geometry/Integrated Math 2 EOC	
2015	Reading HSPE	Writing HSPE	Either Algebra 1/Integrated Math 1 or Geometry/Integrated Math 2 EOC/EOC Exit Exam	Biology EOC <i>(until Next Gen Science Standards)</i>
2016	HSPEs or Smarter Balanced (exit exam cut score)		Either Algebra 1/Integrated Math 1 or Geometry/Integrated Math 2 EOC/EOC Exit Exam or Smarter Balanced (exit exam cut score)	
2017 & 2018	Smarter Balanced (exit exam cut score)			
2019 and beyond	Smarter Balanced (college & career ready cut score)		Smarter Balanced (college & career ready cut score)	

High School Proficiency Exams: HSPEs are comprehensive exams that measure the basic proficiency of high school students in reading and writing, and serve as the state’s exit exams in those subjects.

End-of-Course Exams: EOCs measure the knowledge of students in algebra 1/integrated math 1, geometry/integrated math 2 and biology when they complete each course. They serve as the state’s exit exams for math and science.

Smarter Balanced Tests: Beginning in the 2014-15 school year, subjects included in the Common Core will be assessed using the Smarter Balanced system. Meeting standard on an 11th-grade Smarter Balanced test is a state-approved assessment alternative for ELA and math for the classes of 2015, 2016, 2017 and 2018. Starting with the Class of 2019, meeting standard on the Smarter Balanced tests will be required for high school graduation.

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, iTech 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 iTech 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 iTech 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 based on the Selections Component Rubric below.

Clark College & WSUV Early College Selections Component Rubric

iTech 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 iTech 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),
- Pass the COMPASS tests with qualifying scores and have less than 5 minor and no major disciplinary infractions.

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	Compass Reading	Compass Writing	Compass Math (if taking a math or science class)	Teacher Recommendations "yes"	GPA	Attendance	Discipline
4	100 - 95	100 – 95	99 – 84	All	4.00 – 3.75	No unexcused Absences	None
3	94 – 88	94 – 89	83-68	All minus one	3.74 – 3.50	1 unexcused	1 - 2 minor infractions/no major infractions
2	87 – 81	88 – 83	67-52	All minus two	3.49 – 3.25	2 unexcused	3 minor/no major
1	80-74	82 - 78	51-38	All minus three	3.24 – 3.00	3 unexcused	4 minor/no major
0	Cannot Take Class	Cannot Take Class	Cannot Take Class	All minus 4 (or more)	Less than 3.00	4 unexcused	5 or more infractions or any major infractions Cannot Take Class
NOTE: if a student has 5 or more unexcused absences they must have all teacher recommendations of "yes" and principal recommendation of "yes" to be considered for a college level class.							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 and 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, the COMPASS test fee, 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 PUBLIC SCHOOLS

2015-2016 CLARK COLLEGE COURSE SIMILARITY MATRIX

and you earned a grade of ____ in the second semester of the course within one year of today's date, you are considered to have completed a course similar to this Clark College class:

You are eligible to enroll – **after taking COMPASS @ the Clark College Assessment Center** - in any of the following courses or in any course having the listed course(s) as prerequisite(s).

Algebra	B or better	MATH 090	MATH 091, 095
Algebra 2 or PB Algebra 2	B or better	MATH 095	MATH 103, 105, 107, 111, 122, 203 NOTE: MATH 103 and 111 are <u>demanding</u> courses. Students with a “B” in Algebra 2 should <u>seriously</u> consider taking MATH 095 before enrolling in MATH 103 or MATH 111.
Pre-AP Advanced Alg. & Trig.	B or better	MATH 111	MATH 103, 105, 107, 122, 148, 203 NOTE: Students with a “B” or better in Pre-AP Advanced Alg. & Trig. may enroll in MATH 140 or MATH& 151 if they receive a COMPASS trig score of 41 or better, or pass MATH 103 with a “C” or better.
Math with Applications	B or better	MATH 090	MATH 091, 095
Advanced Math with Applications	B or better	MATH 090	MATH 091, 095
College Algebra (CiHS MATH 111)	C or better	MATH 111	MATH 103, 105, 107, 122, 148, 203 NOTE: Students with a “C” or better in CiHS MATH 111 may enroll in MATH 140 or MATH& 151 if they receive a COMPASS trig score of 41 or better, or if they received a “C” or better in CiHS MATH 103.
College Trig (CiHS MATH 103)	C or better	MATH 103	MATH 105, 107, 111, 122, 203 NOTE: Students with a “C” or better in CiHS MATH 103 may enroll in MATH 140 or MATH& 151 if they received a “C” or better in CiHS MATH 111.
IB Math Studies I	B or better	MATH 095	MATH 103, 105, 107, 111, 122, 203
IB Math Studies II	B or better	MATH 095	MATH 103, 105, 107, 111, 122, 203
IB Precalc/Trig/Stats	B or better	MATH 103 and MATH 111	MATH 140, MATH& 151
Pre-AP Precalculus	B or better	MATH 111	MATH 103, 105, 107, 122, 148, 203 NOTE: Students with a “B” or better in Pre-AP Precalculus may enroll in MATH 140 or MATH& 151 if they receive a COMPASS trig score of 41 or better, or pass MATH 103 with a “C” or better.
AP Calculus AB*	C	MATH& 151	MATH& 152
AP Calculus AB*	B or better	MATH& 152	MATH& 153
IB Calculus Methods	C or better	MATH& 151	MATH& 152
AP Calculus BC* (Formerly Calculus II)	C	MATH& 152	MATH& 153
AP Calculus BC*	B or better	MATH& 153	MATH& 254
AP Stats AP Stats cannot be used for placement. See courses above for your correct placement. If you took the AP Stats exam, consult the Clark College catalog for credit options.			

* If you took an Advanced Placement calculus exam, consult the Clark College catalog for credit options and correct math placement.

HIGH SCHOOL ACADEMIC COURSE DESCRIPTIONS

ENGLISH/LITERACY

English 9/10 (Composition) Available 2015-2016 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 of both literary and informational texts.



English 9/10 (Communications) Available 2015-2016 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 2015-2016 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 2015-2016 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: 1.0 Physical Education

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 rehabilitation. This class will incorporate a component of physical activity as well as a required log of physical exercise 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: 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.

Upon successful completion of this course, students will be recommended for IB Calculus or Advanced Mathematics with Applications.

Advanced Placement (AP) Statistics

Course code: 3761/3762

Open to grades: 11-12

Length: 2 Semesters

Credit earned: 1.0 Math

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.

MISCELLANEOUS ELECTIVES

Introduction to the Philosophy of Science

Course codes: 8651/8652

Open to grades: 9-10-11

Length: 2 Semesters

Credit earned: 1.0 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

Issues in Technology and the Environment

Course codes: 7171/7172

Open to grades: 9-10-11

Length: 2 Semesters

Credit earned: 1.0 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

MISCELLANEOUS ELECTIVES

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.

Psychology/Sociology

(Note- Psychology and Sociology are each one semester and must be taken as a series)

Course code: 8681/8692

Open to grades: 9-10-11-12

Length: 2 Semesters

Credit earned: 1.0 Social Studies

Psychology is the study of human behavior and mental processes. This course is designed to explore human personality, motivation, perception, intelligence, altered states and abnormal behavior. It provides an introduction to psychological terms and concepts, and explains the significance of psychological findings for the student's own life. 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.

Sociology is the study of people and how they interact within society. This "project based" course is designed to explore culture, conformity and deviance, relationships, family, religion and education, as well as social problems of discrimination, poverty and crime. Students begin to develop an understanding of their individual significance in the world. Students will demonstrate their understanding through project and problem based learning.

MISCELLANEOUS ELECTIVES

Research & Design Seminar

Course code: TBD

Open to grades: 11-12

Length: 2 semesters

Credit earned: 1.0

This course will provide an opportunity for students to establish or advance their understanding of research through critical exploration of research language, ethics, and approaches. The course introduces the language of research, ethical principles and challenges, and the elements of the research process within quantitative, qualitative, and mixed methods approaches. Participants will use these theoretical underpinnings to begin to critically review literature relevant to their future field of study or interests and determine how research findings are useful in informing their understanding of their environment (work, social, local, global). 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. Note- Full time running start students may take 15 credits at Clark College but MUST take this class through iTECH to remain an iTECH student.

Robotics Foundations/ Robotics Explorations

(Note- Robotics Foundations and Robotics Explorations are each one semester and must be taken as a series)

Course code: 4651/4655

Open to grades: 9-10-11-12

Length: 2 Semesters

Credit earned: 1.0 Occupational Education

This is an introductory course to the study of robotics. It is an activities- and project-based curriculum based on the VEX Robotics platform and *RobotC* (a C-based programming language). No prior experience is required. In the process of learning to design, build and program robots to accomplish various challenges/missions you will be immersed in physics, geometry, trigonometry, electronics, programming, logic, computer control and mechanics—and it will be fun! The first semester we will focus on understanding how robots work, developing a systematic approach to solving robot problems and then learning to write programs that make the robot perform a variety of increasingly complex tasks. In the second semester you will work with other students to design a robot to meet a variety of competition challenges. Working individually and on teams you will learn to manage your time and other resources to accomplish your objectives.

Second semester builds upon the mechanical, electronics and programming knowledge and skills developed in Robotics Foundations. In Robotic Explorations, students will branch out to other educational robot platforms such as Arduino and BOE-bot. The emphasis in the course will be the design and creation of small footprint (under 2 cubic feet) robots by students working independently or in small teams with the objective to enter their creations in the annual competitions.

MISCELLANEOUS ELECTIVES

The Science of Robots and Automated Systems (Pending approval)

Course code: TBD

Open to grades: 9-10-11-12

Length: 2 semesters

Credit earned: 1.0 Occupational Education

Prerequisite: None

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. Students will work in teams to build a robot for competition. 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 (Pending approval)

Course code: TBD

Open to grades: 9-10-11-12

Length: 2 semesters

Credit earned: 1.0 Occupational Education

Prerequisite: Robotics or Robotics Foundations/Explorations or teacher approval

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.

Computer Programming

Course code: TBD

Open to grades: 9-12

Length: 1 Year

Credit earned: 1 Elective

This course is aimed at students with little or no programming experience. It aims to provide students with an understanding of the role computation can play in solving problems. It also aims to help students, regardless of their future goals, to feel justifiably confident of their ability to write small programs that allow them to accomplish useful goals. The class will use the Python programming language.

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 fluorescent 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

Advanced Placement (AP) Environmental Science

Course Code: 7151/7152, 7151V/7152V

Open to grades: 10-11-12

Length: 2 Semesters

Credit earned: 1.0 Science or 1.0 Occupational Education

Prerequisite: *Biology and Chemistry or two of the following courses and teacher approval: Horticulture Science, Our Natural Resources and Conservation and Advanced Natural Resources and Conservation*

This course is designed for students who want to further their studies in Life and/or Environmental Sciences. It provides students with opportunities to learn about the interrelationships of the natural world, environmental problems both natural and man-made, and the risks associated with these problems, including examination of alternative solutions for resolving and/or preventing them. Students will be prepared to take the Advanced Placement Environmental Science examination. Students will demonstrate their understanding through project and problem based learning.

Astronomy

Course code: 7601/7602

Open to grades: 11-12

Length: 1 Semester

Credit earned: 0.5 Science

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.

SOCIAL STUDIES

World Themes: Washington Perspectives

Course code: 8051/8052

Open to grade: 9

Length: 2 semesters

Credit earned: 1.0 credit 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 to provide students with relevant connections to the region in which they live. 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) Human Geography

Course code: 8091/8092

Open to grade: 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.

Advanced Placement (AP) U.S. History

Course code: 8241/8242

Open to grades: 11

Length: 2 Semesters

Credit earned: 1.0 credit (Alternate credit for 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.

SOCIAL STUDIES

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: TBD

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.

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.

VISUAL AND PERFORMING ARTS

Photography I & II

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

Course codes: 0311V/0312V

Open to grades: 9-12

Length: 2 Semesters

Credit earned: 1.0 Visual & Performing Arts or Occupational Education

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.

Visual Media Publications (Pending approval)

Course Code: 2731V/2732V

Open to grades: 9-10-11

Length: 2 Semesters

Credit Earned: 1.0 Visual & Performing Arts or Occupational Education

Course Description

Students will develop foundational skills for producing digital displays and publications through the use of the Adobe Creative Suite including Adobe Photoshop, Illustrator, InDesign and Flash Animation. Students will use these platforms in learning how to produce quality visual media to enhance, clarify and add meaning to projects within STEM content areas. Students will use the skills they develop in conjunction with the elements of art and principles of design to create visual displays, interactive PDF's as well as an online publications uploaded through a print on demand publisher. Students that demonstrate excellent work ethic and proficiency within the programs addressed will have an opportunity to participate within iTech's yearbook and annual student work publication "Raven".

WORLD LANGUAGE

Spanish 1

Course Code: 1511/1512

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.

WORLD LANGUAGE

Advanced Placement (AP) Spanish Language and Culture Available 2015-2016 School Year

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



Advanced Placement (AP) Spanish Literature and Culture Available 2015-2016 School Year

Course code: 1561/1562

Open to grades: 11-12

Length: 2 Semesters

Credit earned: 1.0 elective credit

Prerequisite: *Spanish (Language) 3*

AP Spanish Literature & Culture is an advanced course preparing students to be successful in the new AP exam of the same name. The course involves the study of a representative body of literature, written in Spanish, from Spain, Latin America, and the United States. The readings are approached through global, historical, political or cultural contexts. The course offers students opportunities to develop proficiency in Spanish skills, with emphasis on critical reading, and analytical writing. It exposes students to a variety of authentic, contemporary media, including music, documentary films, radio and television, as well as printed text. The course also encourages students to reflect on the role of the Spanish-speaking culture in the global perspective. Students will demonstrate their understanding through project and problem based learning

WORLD LANGUAGE

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.

CREDIT RECOVERY OPTIONS

Contact any Vancouver School District high school counselor for additional information on the following Credit Recovery and Alternative Learning options.

Vancouver School District Credit Recovery opportunities:

- **PLATO:** Computer-based curriculum which allows students the opportunity to complete coursework from previously failed classes and receive a passing grade and credit. A fee will be charged per semester if taken beyond the 6 period day. Students may complete as many courses as time permits during the semester. Contact the counselor for registration and payment information.
- **Supplemental Online Courses:** Courses offered on-line include Washington State History, health, and CWP (available second semester only). Attendance at an orientation, in addition to completion of assignments using internet access is required. A fee will be charged per course. Contact the counselor for registration and payment information.
- **Summer School:** PLATO computer-based curriculum for credit recovery in English, math, social studies and non-lab science. Physical education and senior project credit will also be available. Morning, afternoon and evening sessions may be available, and students may register for multiple sessions. A fee will be charged per session. Applications and information about exact dates will be available from school counselors in the spring of the year.

Additional Credit Recovery options available through:

- **Correspondence Classes:** Independent study at home, either through the mail or on-line from Brigham Young University or Portland State University. Catalogs are available in the high school counseling center. Costs generally range from \$100 to \$125 per 0.5 credit, plus books.
- **Clark College Class with Admissions Exception:** Form must be completed and approved in advance and student must pass the COMPASS test, proving ability to handle college-level coursework. Student must pay own tuition. Application forms are available from any high school counselor.
- **Clark County Skills Center Summer School:** No Cost! Students can earn 0.5 miscellaneous credits. Contact Skills Center at 604-1050, or ANY Vancouver School District high school career center for information.
- **ESD 112 Credit Recovery:** Eight-week program, \$100 per 0.5 credit. Call 750-7500, ext. 290.

WASHINGTON COMPREHENSIVE ASSESSMENT PROGRAM

Assessments Required for Graduation

Statewide testing is important because it helps ensure all public school students, no matter where they go to school, receive a quality education. Washington students are regularly tested by the state to assess their progress as they move through elementary and middle school.

In high school, students are tested on their proficiency of basic skills and content knowledge and must pass specific assessments to be eligible to graduate.

Required Assessment	2014	2015 and Beyond
Reading	Required to take and pass the HSPE. Administered in the 10 th grade year.	
Writing	Required to take and pass the HSPE. Administered in the 10 th grade year.	
Mathematics	Required to take the Algebra and Geometry End-of-Course exams the year the course is taken. Students have to pass one of these exams.	Required to take the Algebra and Geometry End-of-Course exams the year the course is taken. Students have to pass both of these exams.
Science	Required to take the Biology End-of-Course exams the year the course is taken.	Required to take the Biology End-of-Course exams the year the course is taken. Students need to pass the exam.

High School Proficiency Exam (HSPE)

This test measures the proficiency of students in high school and serves as the state's exit exam. Students must pass this assessment or a state-approved alternative in reading and writing in order to be eligible to graduate.

End-of-Course Assessments (EOC)

End-of-course assessments for Algebra and Geometry were implemented statewide in the 2011 school year to replace the Mathematics portion of the HSPE. The End-of-course assessment for Biology was implemented statewide in 2012, replacing the Science portion of the HSPE.

All Washington state high school students must show they have key reading and writing skills by graduation. Most students will meet this requirement by passing a state exam. Some students with strong skills, however, may need to use an assessment to demonstrate their skills. For these students, state-approved alternatives are available, called Certificate of Academic Achievement (CAA) Options.

What are the three CAA Options?

GPA Comparison

A student's grades in English courses and/or math courses are compared with the grades of students who took the same courses AND passed the HSPE. This option is available to students in their 12th grade year.

Advanced Placement and College Admission Test Scores

Students may use their scores on the SAT reading and math reasoning tests, ACT reading and math tests, and specified Advanced Placement examinations to show they have key skills.

Collection of Evidence

The COE is an evaluation of a set of work samples based on classroom work prepared by the student with instructional support from a teacher. It leads to a Certificate of Academic Achievement and is one of three alternative assessments available to Washington high school students. Students must meet eligibility criteria to access the COE.

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 ToolingU.