

2019  
2020

# STEM Academy at Spokane Valley Tech COURSE CATALOG



**Preparing students to  
pursue their passions.**

(509) 558-6500 • [spokanevalleytech.org](http://spokanevalleytech.org)  
115 S. University Road, Spokane Valley, WA 99206

**Innovators!**



CENTRAL VALLEY  
SCHOOL DISTRICT #356

# Spokane Valley Tech is Your School!

This course catalog has been prepared to help you make good choices for your future. Whether you plan to attend college or a technical school, enter military service or the workplace, the world is changing and you will want to be prepared for it. Take time to study the catalog and use it to help you make thoughtful course selections.

Every effort has been made to provide accurate information, and this catalog was believed to be accurate at the time of publication. Courses, requirements, fees, and policies are subject to revision. Check with counselors or administrators for current information.

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STEM Academy at SVT is accredited by Association of Educational Service Districts.

### Non-Discrimination Policy:

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

Title IX Coordinator/Civil Rights Compliance Coordinator–  
Executive Director of Human Resources: (509) 558-5442, [rdoehle@cvsd.org](mailto:rdoehle@cvsd.org)  
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### This is a publication of Central Valley School District

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# Graduation Requirements

High school students must fulfill three requirements to receive a high school diploma. These requirements, set by the Washington State Board of Education and the Central Valley School District Board of Directors, help ensure graduates have a solid foundation of skills and knowledge to be prepared for the next steps in life. The transcript indicates whether the student has met standards for the High School and Beyond Plan and the required state assessments. Neither the state assessment scores nor the student's CAA/CIA status appear on the diploma or transcript.

## 1. High School and Beyond Plan:

Students develop a plan for meeting the high school graduation requirements and for connecting successfully to their next steps in life. A student's plan should include the classes needed in preparation for a two- or four-year college, a vocational or technical school, a certificate program, or the workforce. This plan is updated by the student each year.

## 2. Certificate of Academic Achievement (CAA) or Certificate of Individual Achievement (CIA):

The certificates tell families, schools, businesses, and colleges that an individual student has mastered a minimum set of skills by graduation. Students earn the Certificate of Academic Achievement by meeting applicable standards on the required state assessment tests or through one of the Certificate of Academic Achievement Options (state-approved alternatives). Students in special education programs can earn the Certificate of Individual Achievement by demonstrating their skills through a portfolio or an alternative assessment that meets the requirements of their IEP.

## 3. Credit Requirements:

Students pass a required number of classes and earn credits in language arts, math, science, social studies, health and fitness, visual or performing arts, career and technical education, and electives.

Grad Req Code	Subject Area	2020	2021-2023	Grade 9		Grade 10		Grade 11		Grade 12	
		Credits Required for Graduation	Credits Required for Graduation	S1	S2	S1	S2	S1	S2	S1	S2
LA	<b>Language Arts</b> (grades 9-12)	4.0	4.0								
MA	<b>Mathematics</b>										
	• Algebra 1A & 1B (grade 9)	1.0	1.0								
	• Geometry A & B (grade 10)	1.0	1.0								
	• Algebra 2A & 2B or alternative (grade 11)	1.0	1.0								
SC	<b>Science</b>	2.0 * <sub>1</sub> lab SC	3.0 * <sub>2</sub> lab SC								
SS	<b>Social Studies</b>										
WH	• World History (grade 10)	1.0	1.0								
US	• US History 1 & 2 (grade 11)	1.0	1.0								
CW	• Current World Problems (grade 12)	0.5	0.5								
CI	• Civics (grade 12)	0.5	0.5								
HF	<b>Health &amp; Fitness</b>										
	• Health & Physical Wellness (grade 9)	0.5	0.5								
	• Health & Fitness (grade 9-12)	1.5	1.5								
WL	<b>World Languages</b>		2.0								
FA	<b>Fine Arts</b> (Visual, Theater, Music)	1.0	2.0								
CT	<b>Career &amp; Technical Education (CTE)</b>	1.0	1.0								
EL	<b>Electives</b>	7.0	4.0								
	<b>TOTAL</b>	<b>23</b>	<b>24</b>								

For classes of 2021 and beyond:

\*PPR = Personalized Pathway Requirements: Three locally-determined courses that lead to a specific post-high school career outcome chosen by the student, based on the student's interest and High School & Beyond Plan.

# Personal Pathways

Determined by personal interest and career research beginning in middle school, personalized pathways provide each student a deliberate sequence of courses to prepare them for post-secondary education and career success. The six career pathways are based on the 16 career frameworks represented by the National Career Cluster model.

## ARTS & COMMUNICATION

### Career Examples:

A/V Technology & Film  
Journalism & Broadcasting  
Performing Arts  
Printing Technology  
Telecommunications and Technical Communications  
Visual Arts

### Courses in this pathway:

Computer Animation (CVHS)  
Discovering Digital Media  
Graphic Arts  
Photography  
Tech Theatre  
Video Media Production  
Advanced Arts courses

## BUSINESS & MARKETING

### Career Examples:

Business Management/Administration  
Accounting  
Banking Services  
Finance, Securities & Investments  
Insurance  
Marketing Management  
Marketing Research  
Merchandising  
Professional Sales

### Courses in this pathway:

Computer Essentials (UHS)  
Accounting  
Contemporary English  
Intro to Business & Marketing  
Advanced Business & Marketing  
Store Operations & Management  
Personal Finance  
Project Management  
Statistics/AP Statistics

## COMPUTER SCIENCE & INFORMATION TECHNOLOGY

### Career Examples:

Programming and Software Development  
Network Systems and Support  
Web and Digital Communications  
Database and Systems Administration  
Computer Forensics  
PC/Systems User Support

### Courses in this pathway:

Intro to CS  
Computer Science Principles /AP CSP  
AP Computer Science A & Apps (SVT)  
A+ Computer Repair (CVHS)  
Cyber Security (CVHS)  
LA Technology Lit (CVHS)  
Networking Fundamentals (CVHS)  
AP Government & Politics



## ENGINEERING & APPLIED TECHNOLOGY

### Career Examples:

Architecture  
Construction  
Engineering  
Manufacturing and Production  
Maintenance, Installation and Repair  
Mobile Equipment and Automotive Maintenance  
Power, Structural and Technical Systems

### Courses in this pathway:

Intro to Engineering  
Architecture & Interior Design  
Engineering Physics  
Military Science (UHS)  
Materials Science Engineering (UHS)  
Manufacturing Technology  
Construction Technology  
Welding Technology (UHS)  
Automotive Technology (UHS)  
Robotics Technology  
Intro to Computer Science  
Computer Science Principles /AP CSP  
Advanced Manufacturing (SVT)  
Advanced Engineering (SVT)  
Intro to Environmental Engineering (SVT)



## HUMAN SERVICES

### Career Examples:

Restaurants & Food/Beverage Services  
Recreation Services  
Travel & Tourism  
Law Enforcement/Security  
Consumer Services  
Counseling & Mental Health Services  
Family & Community Services  
Personal Care Services  
Early Childhood Education  
Education and Training

### Courses in this pathway:

Family & Consumer Services  
Intro to Food Production  
Advanced Food Production  
Single Survival  
Early Childhood Education  
Careers in Education  
Personal Finance  
American Sign Language  
Intro to Computer Science  
Accounting  
Intro to Business & Mkt  
Sociology  
Psychology  
AP Government & Politics  
Fire Science (SVT)

## SCIENCE, ENVIRONMENT & NATURAL RESOURCES

### Career Examples:

Health Sciences  
Biomedical and Biotechnical Sciences  
Environmental Services  
Health, Safety and Environmental Assurance  
Plant Systems  
Natural Resources Systems

### Courses in this pathway:

Principles of Biomedical Sciences  
Human Body Systems  
Medical Interventions  
Biomedical Innovations  
AP Environmental Science  
Emergency Medical Tech (SVT)  
Advanced Biomed (SVT)  
Intro to Environmental Engineering (SVT)



# Education and Career Directions

## APPRENTICESHIPS

An apprenticeship is a training program based upon a written agreement between the worker (apprentice) and the employer; the worker learns a skilled trade or craft on the job. Most apprenticeship programs require more than one year of on-the-job training under the supervision of an experienced worker, plus additional course work. Application for apprenticeship may be made to an employer, labor union, a joint apprenticeship and training committee, or the local state employment service office. For more information, visit [www.scc.spokane.edu/?apprentprog](http://www.scc.spokane.edu/?apprentprog). Pre-apprenticeships provide the opportunity for those wishing to gain apprenticeships to complete prerequisite courses relevant to the industry in which they hope to work.

## COMMUNITY AND TECHNICAL COLLEGE

Over 30 community and technical colleges in the state of Washington offer career/technical training programs that vary in length from a few weeks to two years. In addition to state colleges and career and technical schools, there are over 100 private career schools in the state that provide specialized training. Students can attend any of the state's community colleges and earn an Associate of Arts (AA) or Associate of Science Transfer (AST) Degree. These degrees allow the student to transfer to any four-year college in the state of Washington and begin as a college junior if entrance requirements are met. Any student with a high school diploma can be admitted to a community college in the AA/AST Degree program.

## CORRESPONDENCE AND COLLEGE COURSES

Credit toward graduation requirements may be granted for planned learning experiences primarily conducted away from the facilities owned, operated or supervised by a district. A maximum of 2 (two) credits for pre-approved correspondence and/or out-of-district online courses may be accepted for meeting graduation course requirements if the program satisfies the requirements of WAC 392-121-182.

## FOUR-YEAR COLLEGE

The state of Washington has one of the nation's top four-year college systems. State or private universities and colleges offer a traditional liberal arts degree as well as more specialized college degrees. Students may enter these schools as freshmen or they may transfer in from one of Washington's community colleges. Most of the four-year colleges, both private and public, have specific admissions requirements. Students should check with their counselor and the college regarding entrance requirements for both the community and four-year colleges.

## EMPLOYMENT

Over the course of their high school careers, students have the opportunity to consider their interests and aptitudes while they explore options for after high school.

Students applying for a job should remember these tips:

1. The Xello Program helps students focus their interests and options.
2. Students can locate job openings by using multiple sources – the Internet, want ads, employment agencies, placement services, civil service agencies, friends, and relatives.
3. An up-to-date professional résumé highlights education and experiences.
4. A letter of application should be written with proper formatting and punctuation, and it should include relevant concrete details about the student.
5. Employment applications should be filled out completely, accurately, and neatly.
6. Strong interviewing techniques are essential.

## MILITARY

A high school graduate who enlists in the Air Force, Army, Navy, Coast Guard, or Marine Corps will have the opportunity to select a military occupational specialty. During a four-year enlistment, a person may receive the equivalent of a junior college education in various occupational areas. In some occupational areas, the military services will provide four or more years of college with an extended period of enlistment. Students may get more information by talking to local recruiting officers.

## ROTC

At some four-year colleges, students may apply for the Reserve Officer Training Corps program in one of the branches of the military. Students attend the college full-time while fulfilling required ROTC classes. After earning a degree, the student serves a set amount of years in that branch of the military as an officer.

# College Entrance Requirements

## FOUR-YEAR PUBLIC AND INDEPENDENT COLLEGES

Most of the colleges in Washington and over half in the United States are classified as independent colleges. This means that even though they are approved and accredited to grant diplomas, they vary greatly on what they teach and what they require for entrance. **Each college sets its own standards for admission. Students are responsible for knowing and meeting guidelines for the colleges of their choice.**

Four-year colleges take into consideration a variety of factors when considering students for admission. These factors include, but are not limited to, high school course of study, GPA, ACT/SAT scores, essays, and extracurricular and community service activities. Students are encouraged to take a strong curriculum each year in order to be prepared for college coursework.

Four-year public colleges in the state of Washington (University of Washington, Washington State University, The Evergreen State College, Eastern Washington University, Central Washington University, and Western Washington University) have agreed to common entrance requirements. Students will be required to earn a minimum of three **College Academic Distribution Requirements (CADR)** credits during each year of high school, meeting the minimum requirements here:

English . . . . .	4 credits
Math* (through Algebra 2B) . . . . .	3 credits
Science, lab-based** . . . . .	2 credits
Social Science/History . . . . .	3 credits
Arts*** . . . . .	1 credit
Foreign Language (single world language) . . . . .	2 credits

\* Public four-year colleges in Washington state also require one year of a quantitative course senior year. This can be achieved by passing a fourth year of math, an algebra-based science senior year, or the required third year of math during the senior year.

\*\* One credit also must be algebra based: i.e. Physics or Chemistry

\*\*\* Other academic electives may substitute, but not at all institutions.

Classes that meet CADR requirements are marked with a “B” designation code in the course description.

High school students are strongly encouraged to exceed both the CADR and high school graduation requirements to improve their potential for success. Individual institutions may have more rigorous standards or may have different processes to consider individual exceptions. **Prospective students should obtain the admission information provided by the institutions.**

## NCAA REQUIREMENTS

If you want to play sports at an NCAA Division I or II school, start by registering with the NCAA Eligibility Center at [ncaa.org](http://ncaa.org) during your sophomore year. NCAA schools require college-bound student-athletes to build a foundation of high school courses to prepare them for the college classroom. Not all high school classes count as NCAA core classes. Visit the NCAA eligibility center for a full list of SVT approved core courses. For additional information, see your counselor.

**Note:** Student athletes need to register for the NCAA Clearinghouse before the end of their junior year. **Students are responsible for knowing and meeting the NCAA requirements for college admission and participation in college sports.**

## COMMUNITY COLLEGES

Community colleges in Washington and Idaho have an open enrollment policy. This means that in most circumstances if a student has a high school diploma or a GED, the college will admit him or her. Applications for all community colleges in the state of Washington and for North Idaho College in Coeur d'Alene are available online.

However, just because a student is admitted to the college doesn't mean that he or she can take college level courses or can be admitted to a particular technical program. Various specialty programs within the college may require certain courses or test scores for entrance.

All students entering the community colleges must take a test for placement purposes. Those students who do not pass the test must take remedial courses that do not count toward a degree. Counselors recommend students take as much math and English as possible in order to prepare for college-level work.

## Running Start

Running Start is a college-credit program that allows students to earn high school and college credit simultaneously at Spokane Community College (SCC), Spokane Falls Community College (SFCC), or Eastern Washington University (EWU).

# Earning College Credit in High School

The courses listed below may have the opportunity to be awarded college credits, however, these courses may or may not transfer directly to a specific department or university. It is the responsibility of the student to consult with those institutions and their teacher concerning specific credit transfer and admissions requirements. **The high school is not involved with either the transcript request, the transfer evaluation or communication between institutions of higher education regarding specific students.**

High School Class/Requirements	College Course	Credits	College
Adv Engineering 1 & 2 [88803/04] (SVT)	*CAD 133 Introduction to Design	5	SCC
AP Comp. Science & App Dev. [88871A/72A] (SVT)	^CSCD 210 Programming Principles 1	5	EWU
Computer Science Principles 1 & 2 [8249/50]	^CSCD 110 Introduction to Programming <b>OR</b>	5	EWU
	*IS 125 Linux & Python Fundamentals	5	SFCC
Fire Science Technology [88861/62] (SVT)	*FS 100 Orientation to Fire Science <b>AND</b>	2	SCC
	*FS 177 Wildland Fire Operations	3	
Intro to Engineering 1&2 [8311/12]	*CAD 142 CAD Solid Modeling <b>OR</b>	3	SCC
Pre-Calculus A & B [3411/12]	^Math 141 & 142	10	EWU

\*Tech Prep program post-secondary credits are attainable by grades 9-12

^ College-in-the-High-School program post-secondary credits are attainable by grades 10-12; per credit fee may be payable to the college

## SVT-STEM Academy: Sample 4-Year Plan

Grade 9	Grade 10	Grade 11	Grade 12
Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus or AP Calculus or AP Statistics
Introduction to Engineering Design (Fine Arts credit)	<b>Choose 1:</b> <ul style="list-style-type: none"> <li>• Engineering Physics</li> <li>• Human Body Systems</li> <li>• Computer Science Principles</li> <li>• Introduction to Environmental Engineering</li> </ul>	<b>Choose 1: Personal Pathway</b> <ul style="list-style-type: none"> <li>• Advanced Engineering</li> <li>• Advanced Biomed</li> <li>• AP Computer Science</li> </ul>	<b>Choose 1: Personal Pathway</b> <ul style="list-style-type: none"> <li>• Advanced Biomed</li> <li>• Advanced Engineering</li> <li>• Advanced Manufacturing</li> <li>• AP Computer Science</li> <li>• Emergency Medical Services</li> </ul>
Principles of Biomedical Science			
Language Arts	Language Arts & World History	Language Arts & US History	Language Arts & Civics, Current World Problems
Health Physical Education	Physical Education	<b>Choose 1:</b> <ul style="list-style-type: none"> <li>• Yearbook</li> <li>• Physics</li> <li>• Chemistry</li> <li>• AP Biology</li> </ul>	<b>Choose 1:</b> <ul style="list-style-type: none"> <li>• Yearbook</li> <li>• Physics</li> <li>• Chemistry</li> <li>• AP Biology</li> </ul>
Spanish I			

# Course Index & Equivalencies

Course Name	Course Number	Grad Req. Codes / Course Equivalencies										Description Page #
		LA	MA	SC	SS	HF	WL	FA	CT	EL		
9 <sup>th</sup> Grade Language Arts 1& 2	1111 / 1112	X									X	15
10 <sup>th</sup> Grade Language Arts 1& 2	1211 / 1212	X									X	15
11 <sup>th</sup> Grade Literature & Comp. 1 & 2	1315 / 1316	X									X	15
Writing / Research for College 1 & 2	1411 / 1412	X									X	15
Spanish 1A & 1B	2115 / 2116						X				X	16
Spanish 2A & 2B	2215 / 2216						X				X	16
Algebra 1A & 1B	3111 / 3112		X								X	17
Geometry A & B	3211 / 3212		X								X	17
Algebra 2A & 2B	3311 / 3312		X								X	17
Pre-calculus A & B	3411 / 3412		X								X	18
AP Statistics 1 & 2	3911A / 3912A		X								X	18
AP Calculus AB 1 & 2	3913A / 3914A		X								X	18
AP Calculus BC 1 & 2	3915A / 3916A		X								X	18
IEP – Algebra 1A & 1B	3111R / 3112R		X								X	19
IEP – Geometry A & B	3211R & 3212R		X								X	19
IEP – Problem Solving Algebra A & B	3811R / 3812R		X								X	19
IEP – Quantitative & Financial Math 1 & 2	3421R / 3422R		X								X	19
Chemistry 1 & 2	4311 / 4312			X							X	20
Physics 1 & 2	4411 / 4412			X							X	20
AP Biology 1 & 2	4911A / 4912A			X							X	20
World History 1 & 2	5211 / 5212				X						X	21
U.S. History 1 & 2	5311 / 5312				X						X	21
Civics	5410				X						X	21
Current World Problems	5420				X						X	21
Health / Physical Wellness	6110					X					X	22
Physical Conditioning 1 & 2	6430 / 6431					X					X	22
Fitness	6817					X					X	22
Project Management 1 & 2	8165 / 8166									X	X	23
Computer Science Principals 1 & 2	8249 / 8250			X						X	X	23
AP Computer Science Principals 1 & 2	8249A / 8250A		X	X						X	X	23
Intro to Engineering 1 & 2	8311 / 8312		X						X	X	X	22
Engineering Physics 1 & 2	8321 / 8322			X						X	X	24
Intro to Environmental Engineering 1 & 2	8407 / 8408			X						X	X	24
Principals of Biomedical Science 1 & 2	8411 / 8412			X						X	X	24
Human Body Systems 1 & 2	8421 / 8422			X						X	X	24
Advanced Manufacturing 1 & 2	88801 / 88802		X							X	X	25
Advanced Engineering 1 & 2	88803 / 88804			X						X	X	25
Advanced Biomedical Applications 1 & 2	88807 / 88808			X						X	X	25
Emergency Medical Services 1 & 2	88863 / 88864			X						X	X	25
AP Computer Science & App Dev. 1 & 2	88871A / 88872A		X	X						X	X	25
Leadership Development 1 & 2	9120 / 9130										X	26
ASB Leadership 1 & 2	9141 / 9142										X	26
IEP - School Skills	9301 / 9302										X	26
Yearbook A & B	9341 / 9342										X	26
Office Assistant	950300										X	26
Running Start	77901 / 77902	X	X	X	X	X	X	X	X	X	X	26



# Policies, Procedures and Programs

## **ADVANCED PLACEMENT**

The Advanced Placement Program allows students to take college-level courses in high school. These courses are taught by high school teachers who follow curriculum guides established by college faculty through the College Board Advanced Placement Program. Expectations for academic performance, behavior, maturity and time commitment are at the college level. Parents and students should expect more reading and homework and expect to be evaluated as a college student.

Students who score '3' or above on a five-point scale may earn college credit at colleges and universities across the state and country. Each college defines what scores it accepts for credit or course placement. SVT only administers AP tests for courses taught in our building. AP courses offered: AB & BC Calculus, Biology, Computer Science Principles and AP Statistics.

## **CREDIT FOR MIDDLE SCHOOL CLASSES**

Students have the option to request that high school credit be given for Algebra and/or Spanish 1 & 2 taken in middle school. Students should obtain a "High School Credit Request" form from a counselor. Grades assigned to these classes will be included in the student's overall high school grade point average and courses cannot be removed from the high school transcript once the option has been exercised.

## **GRADE REPLACEMENT POLICY**

According to state and district policy, students may repeat a class to gain additional skills or improve a grade. Students interested in choosing this option should work closely with their counselor to determine whether they want to receive credit for the first attempt. The grade for the first attempt will remain listed on the transcript.

## **HEALTH AND FITNESS WAIVER**

Pursuant to RCW 28A.230.050 and CVSD policy 2410, students requesting to waive Health and Fitness graduation requirements must complete the appropriate form prior to the first day of the activity. Forms are available in the Counseling Center. The maximum number of Health and Fitness credits that can be waived is 1.5; students may not waive Health and Physical Wellness.

## **STATE ASSESSMENT TESTS**

State assessment tests are currently administered in these areas: English Language Arts (ELA) & Math and Science (for the class of 2021 and beyond). Graduation requirements vary by the students' graduating class. Students who are unable to meet standard through passing required assessments may qualify for other options for meeting state graduation requirements. Students should work with their counselors and special education case managers to stay on track for meeting requirements. For more information about state requirements, refer to the Office of Superintendent of Public Instruction website: [www.k12.wa.us/assessment](http://www.k12.wa.us/assessment).

## **TESTING ACCOMMODATIONS**

Students qualifying for special testing accommodations (e.g., SAT, PSAT, AP, ACT, etc.) need to contact their counselor at least three months prior to the testing date.

## **VALEDICTORIAN AND SALUTATORIAN POLICY**

Students pursuing the honor of valedictorian or salutatorian do so with the understanding that their educational program must reflect a rigorous academic program and that they will need to make informed choices in selecting courses. Central Valley School District Board Policy 2410AP, which can be accessed on the district website [www.cvsd.org](http://www.cvsd.org), outlines the current criteria for valedictorian and salutatorian selection. Participation in Running Start does not replace AP requirements.

# Class of 2020: Graduation Credit Check

## AA, AAS, Career/Tech, Military, Work

Name: \_\_\_\_\_

Personal Pathway: \_\_\_\_\_

### Credits by Subject

Language Arts . . . . . 4.0 credits  
 Math . . . . . 3.0  
 Science . . . . . 2.0  
 Social Studies . . . . . 3.0  
 Health & Fitness . . . . . 2.0  
 Fine Arts . . . . . 1.0  
 CTE . . . . . 1.0  
 Electives . . . . . 7.0  
**Total . . . . . 23 credits**

<b>LA – Language Arts</b>	9	9	10	10	11	11	12	12
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<b>MA – Math*</b>	Algebra 1A	Algebra 1B	Geometry A	Geometry B	Algebra 2A	Algebra 2B
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<b>SC – Science</b>	PBS	PBS		
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<b>SS – Social Studies</b>	WH	WH	US	US	CWP	Civics
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<b>HF – Health &amp; Fitness</b>	Health	PE	PE	PE		
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[PE waiver does not give credit]

<b>FA – Fine Arts</b>	IED	IED
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<b>CT – CTE</b>		
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<b>EL – Electives</b>							
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<b>State Testing Scores</b>	LA	MA	WA State History
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# Class of 2020: Graduation Credit Check

## Four-Year College

Name: \_\_\_\_\_

Personal Pathway: \_\_\_\_\_

### Credits by Subject

Language Arts . . . . . 4.0 credits  
 Math . . . . . 3.0  
 Science . . . . . 2.0  
 Social Studies . . . . . 3.0  
 Health & Fitness . . . . . 2.0  
 Fine Arts . . . . . 1.0  
 CTE . . . . . 1.0  
 Electives . . . . . 7.0  
**Total . . . . . 23 credits**

<b>LA – Language Arts</b>	9	9	10	10	11	11	12	12
<b>MA – Math*</b>	Algebra 1A	Algebra 1B	Geometry A	Geometry B	Algebra 2A	Algebra 2B	Sr	Sr
<b>SC – Science</b>	PBS	PBS	Math-based SC	Math-based SC				
<b>SS – Social Studies</b>	WH	WH	US	US	CWP	Civics		
<b>HF – Health &amp; Fitness</b>	Health	PE	PE	PE				
								[PE waiver does not give credit]
<b>FA – Fine Arts</b>	IED	IED						
<b>WL – World Language</b>								
<b>CT – CTE</b>								
<b>EL – Electives</b>								

State Testing Scores	LA	MA	WA State History
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**\*One credit of a quantitative math class is required in the senior year unless Pre-Calculus has been completed.**

These classes meet this requirement:

**Math:** Alg 2 A&B • Precalculus • AP Stats 1&2 • AP Calculus AB and BC 1&2

**Science:** Chemistry 1&2 • Physics 1&2 • AP Computer Science

# Class of 2021-2023: Graduation Credit Check

## AA, AAS, Career/Tech, Military, Work

Name: \_\_\_\_\_

Personal Pathway: \_\_\_\_\_

### Credits by Subject

- Language Arts . . . . . 4.0 credits
- Math . . . . . 3.0
- Science . . . . . 3.0 (2 lab)
- Social Studies . . . . . 3.0
- Health & Fitness . . . . . 2.0
- World Languages . . . . . 2.0 \*May be PPR
- Fine Arts . . . . . 2.0 \*1 may be PPR
- CTE . . . . . 1.0
- Electives . . . . . 4.0
- Total . . . . . 24 credits**

<b>LA – Language Arts</b>	9	9	10	10	11	11	12	12
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<b>MA – Math*</b>	Algebra 1A	Algebra 1B	Geometry A	Geometry B	Algebra 2A	Algebra 2B
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<b>SC – Science</b>	PBS	PBS				
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<b>SS – Social Studies</b>	WH	WH	US	US	CWP	Civics
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<b>HF – Health &amp; Fitness</b>	Health	PE	PE	PE	[PE waiver does not give credit]	
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<b>WL – World Language</b> *or PPR	*or PPR	*or PPR	*or PPR	*or PPR
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<b>FA – Fine Arts</b>	IED	IED	*or PPR	*or PPR
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<b>CT – CTE</b>		
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<b>EL – Electives</b>								
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<b>State Testing Scores</b>	LA	MA	Science	WA State History
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**Personalized Pathway Requirements (PPR):** Personalized Pathway Requirements are related courses that lead to a specific post high school career or educational outcome chosen by the student based on the student's interests and High School and Beyond Plan. These classes may replace up to 1.0 Fine Art credits and 2.0 World Language credits.

# Class of 2021-2023: Graduation Credit Check

## Four-Year College

Name: \_\_\_\_\_

Personal Pathway: \_\_\_\_\_

### Credits by Subject

- Language Arts . . . . . 4.0 credits
- Math . . . . . 3.0
- Science . . . . . 3.0 (2 lab)
- Social Studies . . . . . 3.0
- Health & Fitness . . . . . 2.0
- World Languages . . . . . 2.0 \*May be PPR
- Fine Arts . . . . . 2.0 \*1 may be PPR
- CTE . . . . . 1.0
- Electives . . . . . 4.0
- Total . . . . . 24 credits**

<b>LA – Language Arts</b>	9	9	10	10	11	11	12	12
<b>MA – Math*</b>	Algebra 1A	Algebra 1B	Geometry A	Geometry B	Algebra 2A	Algebra 2B	Sr	Sr
<b>SC – Science</b>	PBS	PBS			Math-based SC	Math-based SC		
<b>SS – Social Studies</b>	WH	WH	US	US	CWP	Civics		
<b>HF – Health &amp; Fitness</b>	Health	PE	PE	PE	[PE waiver does not give credit]			
<b>FA – Fine Arts</b>	IED	IED	*or PPR	*or PPR				
<b>CT – CTE</b>								
<b>WL – World Language</b>								
<b>EL – Electives</b>								

<b>State Testing Scores</b>	LA	MA	Science	WA State History
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**\*One credit of a quantitative math class is required in the senior year unless Pre-Calculus has been completed.**

These classes meet this requirement:

**Math:** Alg 2 A&B • Precalculus • AP Stats 1&2 • AP Calculus AB and BC 1&2

**Science:** Chemistry 1&2 • Physics 1&2 • AP Physics 1&2 • AP Computer Science

**Personalized Pathway Requirements (PPR):** Personalized Pathway Requirements are related courses that lead to a specific post high school career or educational outcome chosen by the student based on the student's interests and High School and Beyond Plan. These classes may replace up to 1.0 Fine Art credits and 2.0 World Language credits.

# Registration Information

In the spring of each year, students submit course requests for the following school year. Every effort is made for students to take their first choice of courses, but students may need to be placed in their alternate courses. It is very important for students to give careful consideration to the courses and alternate courses they request. Changes may not be possible.

It is especially important for students to choose Advanced Placement courses carefully. When students request AP classes, they are making a commitment. Changes requested after the initial registration process will be evaluated on a case by case basis by an administrator; other placements may no longer be available.

Note: After five days, students must obtain administrative approval to drop a class without receiving a failing grade. Students must remain in their assigned classes for the duration of each semester.

## READING THE COURSE CATALOG

This course catalog offers several aids to help students choose classes that best fit their aspirations. Course descriptions give details about course content. Also, two sets of information refer to graduation requirements and transcript course designation codes (where applicable).

For example, in the sample below, the “Grad Req Codes” indicates that these classes meet graduation requirements for math; after all math graduation credits are fulfilled, the course counts as an elective. On the student's transcript, a “B” will designate that the course meets a college core requirement for Washington four-year public colleges. This course has also been approved by NCAA to meet math requirements.

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### 3211/ 3212      **Geometry A & B**

Geometry covers two semesters and will continue to build upon the foundations that were established in Algebra 1. The core content areas of study include: logical arguments and proofs, lines and angles, two- and three-dimensional figures, the coordinate plane, and geometric transformations. Students will also reason, problem solve, and communicate mathematically in this course.

**GRADES:** 9, 10  
**PREREQUISITE:** Sequential; successful completion of Algebra 1. The TI-83 or equivalent graphing calculator will be required for this class  
**GRAD REQ CODES:** MA, EL  
**TRANSCRIPT CODES:** B, Q  
**NCAA ELIGIBLE**



#### KEY TO GRADUATION REQUIREMENT CODES (GRAD REQ CODES:)

- LA—Language Arts
- MA—Math
- SC—Science
- SS—Social Studies
- WH—World History
- US—US History
- CW—Current World Problems
- CI—Civics
- HF—Health & Fitness
- WL—World Languages
- FA—Fine Arts
- CT—Career & Technical Ed.
- EL—Elective



#### KEY TO WA STATE TRANSCRIPT COURSE DESIGNATION CODES (TRANSCRIPT CODES:)

- Each official transcript includes code designations for courses that meet established criteria. These codes can help students plan for post-secondary requirements:
- A—Advanced Placement
  - B—College Academic Distribution Requirements (CADR)
  - C—College in the High School
  - N—National competency test
  - Q—Quantitative
  - R—Running Start
  - T—Tech prep
  - S—Lab science

See Page 6

# English Language Arts (ELA)

Students must earn four Language Arts credits. Students are expected to take the Language Arts SBA exam during their sophomore year.

Course Number	Course Name	Prerequisite?	Recommended Grade Level	Course Code
1111 / 1112	9th Grade Language Arts 1 & 2	No	9	B
1211 / 1212	10th Grade Language Arts 1 & 2	Yes	10	B
1315 / 1316	11th Grade Literature & Composition 1 & 2	Yes	11	B
1411 / 1412	Writing/Research for College 1 & 2	Yes	12	B

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## 1111 / 1112      **9th Grade Language Arts 1 & 2**

Both semesters emphasize the Washington State Language Arts and Literacy standards and provide extensive practice in the skills and strategies required to pass the state reading and writing assessment. Students will work on reading and literary comprehension by studying a variety of short stories, poems, non-fiction articles, plays and novels. Students will continue their understanding of the writing process by composing written work in a variety of forms, including at least two full-length essays.

**GRADES:** 9  
**PREREQUISITE:** None  
**GRAD REQ CODES:** LA, EL  
**TRANSCRIPT CODES:** B  
**NCAA ELIGIBLE**

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## 1211 / 1212      **10th Grade Language Arts 1 & 2**

Both semesters emphasize the Washington State Language Arts and Literacy standards. Both classes provide extensive practice in the skills and strategies required to pass the state assessment in reading and writing. Students will work on reading and literary comprehension by studying a variety of short stories, poems, nonfiction articles, plays, and novels. Students will continue their understanding of the writing process by composing written works, including at least two full-length essays, in a variety of forms.

**GRADES:** 10  
**PREREQUISITE:** Successful completion of, or enrollment in 9th Grade ELA or equivalent courses  
**GRAD REQ CODES:** LA, EL  
**TRANSCRIPT CODES:** B  
**NCAA ELIGIBLE**

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## 1315 / 1316      **11th Grade Literature & Composition 1 & 2**

Literature & Composition 1 and 2 emphasize the Language Arts Common Core State Standards in reading, writing, listening, and speaking. Students will read fiction and nonfiction and will write a variety of essays including arguments, narratives, and a research paper.

**GRADES:** 11  
**PREREQUISITE:** Successful completion of 9th and 10th Grade ELA or equivalent courses  
**GRAD REQ CODES:** LA, EL  
**TRANSCRIPT CODES:** B  
**NCAA ELIGIBLE**

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## 1411 / 1412      **Writing/Research for College 1 & 2**

Writing/Research for College is a college-prep course that prepares students for the higher order thinking skills they will face at the college level and into their career fields. Featuring a variety of composition and literary experiences, this class is aimed toward the goal of developing independent thinkers. Students will work on college and career readiness, including cover letters, college applications, resumes, text-based essays, and research strategies. Students will also develop skills needed for creative and argumentative writing, critical reading of both fiction and non-fiction texts, speaking, and listening. Students will leave this class with the confidence that they're prepared for success in college and beyond.

**GRADES:** 12  
**PREREQUISITE:** Successful completion of 9th and 10th Grade ELA and American Lit., or equivalent courses  
**GRAD REQ CODES:** LA, EL  
**TRANSCRIPT CODES:** B  
**NCAA ELIGIBLE**

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# World Languages

Most four-year colleges require students to successfully complete at least two credits of high school World Language courses in the same language. Students graduating in 2021 and beyond need 2 credits of World Language **OR** 2 additional PPR credits.

Course Number	Course Name	Prerequisite?	Recommended Grade Level	Course Code
2115	Spanish 1A	No	9, 10, 11, 12	B
2116	Spanish 1B	Yes	9, 10, 11, 12	B
2215	Spanish 2A	Yes	10, 11, 12	B
2216	Spanish 2B	Yes	10, 11, 12	B

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## FIRST YEAR

### 2115 / 2116 Spanish 1A, Spanish 1B

In first year World Language classes, students learn to communicate in real life contexts about topics that are meaningful to them. In order to develop the three areas of communicative competence, students are encouraged to use the target language as much as possible. Rather than isolating grammar in a separate strand, it is integrated into instruction according to the vocabulary and structures needed in the various situations in which students are required to function. Through the language learning process, students develop an understanding of how their own language is structured and how their own culture has unique aspects. An important component of World Language classes is the use of the target language beyond the classroom in order to apply knowledge of the language in the real world. In many cases, this is accomplished through the integration of technology into the classroom. Technology is an important tool in accessing authentic information in the target language and in providing students the opportunity to hear native speakers.

**GRADES:** 9, 10, 11, 12

**PREREQUISITE:** Successful completion of Level 1A before 1B

**GRAD REQ CODES:** WL, EL

**TRANSCRIPT CODES:** B

**NCAA ELIGIBLE**

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## SECOND YEAR

### 2215 / 2216 Spanish 2A, Spanish 2B

In second year World Language classes, students continue to develop their proficiency in the three modes of communicative competence: interacting with other speakers of the target language, understanding oral and written messages in the language, and making oral and written presentations in the language. They begin to show a greater level of accuracy when using basic language structures and are exposed to more complex features of the target language. They continue to focus on communicating about their immediate world and daily life activities. They read material on familiar topics and write short, directed compositions. Emphasis continues to be placed on the use of the target language in the classroom as well as on the use of authentic materials to learn about the culture.

**GRADES:** 10, 11, 12

**PREREQUISITE:** Successful completion of previous levels

**GRAD REQ CODES:** WL, EL

**TRANSCRIPT CODES:** B

**NCAA ELIGIBLE**



# Mathematics

Students must earn three credits of Mathematics including Algebra 1 and Geometry. Students will be expected to take the SBA exam during their sophomore year.

Course Number	Course Name	Prerequisite?	Recommended Grade Level	Course Code
3111 / 3112	Algebra 1A & 1B	No	9	B, Q
3211 / 3212	Geometry A & B	Yes	9, 10	B, Q
3311 / 3312	Algebra 2A & 2B	Yes	10, 11, 12	B, Q
3411 / 3412	Precalculus A & B	Yes	11, 12	B, Q
3911A / 3912A	AP Statistics 1 & 2	Yes	10, 11, 12	A, B, Q
3913A / 3914A	AP Calculus AB 1 & 2*	Yes	12	A, B, Q
3915A / 3916A	AP Calculus BC 1 & 2*	Yes	12	A, B, Q
3111R / 3112R	Algebra 1A & 1B	Yes, CP	9, 10, 11, 12	-
3211R / 3212R	Geometry A & B	Yes, CP	10, 11, 12	-
3811R / 3812R	Problem Solving Algebra A & B	Yes, CP	11	-
3421R / 3422R	Quantitative & Financial Math 1 & 2	Yes, CP	12	-

\*Summer Homework; CP = Counselor Placement

### *Additional Courses Cross-Credited with Math:*

8249A/8250A	<b>AP Computer Science Principles</b>	Course information on page 23
8311/8312	<b>Intro to Engineering</b>	Course information on page 22
88801/88802	<b>Advanced Manufacturing</b>	Course information on page 25
88803/88804	<b>Advanced Engineering</b>	Course information on page 25

## 3111 / 3112 **Algebra 1A & 1B**

The Algebra 1 core content areas of study include: solving problems, number sense, algebraic expressions and operations, characteristics and behaviors of functions, linear functions, equations and inequalities, quadratic functions and equations, exponential functions, polynomial functions, and data and distributions. Students will also reason, problem solve, and communicate mathematically in this course.

**GRADES:** 9

**PREREQUISITE:** None. The TI-83 or equivalent graphing calculator will be required for this class

**GRAD REQ CODES:** MA, EL

**TRANSCRIPT CODES:** B, Q

**NCAA ELIGIBLE**

## 3211 / 3212 **Geometry A & B**

Geometry covers two semesters and will continue to build upon the foundations that were established in Algebra 1. The core content areas of study include: logical arguments and proofs, lines and angles, two- and three-dimensional figures, the coordinate plane, and geometric transformations. Students will also reason, problem solve, and communicate mathematically in this course.

**GRADES:** 9, 10

**PREREQUISITE:** Sequential; successful completion of Algebra 1. The TI-83 or equivalent graphing calculator will be required for this class

**GRAD REQ CODES:** MA, EL

**TRANSCRIPT CODES:** B, Q

**NCAA ELIGIBLE**

## 3311 / 3312 **Algebra 2A & 2B**

Algebra 2 covers two semesters and will continue to build upon the foundations established in Algebra 1 and Geometry. The core content areas of study include: solving problems; number sense, algebraic expressions and operations; quadratic functions and equations; exponential and logarithmic functions and equations; trigonometric functions and the unit circle; and probability, data, and distributions. Students will also reason, problem solve, and communicate mathematically in this course.

**GRADES:** 10, 11, 12

**PREREQUISITE:** Sequential; successful completion of Geometry. The TI-83 or equivalent graphing calculator will be required for this class.

**GRAD REQ CODES:** MA, EL

**TRANSCRIPT CODES:** B, Q

**NCAA ELIGIBLE**

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**3411 / 3412 Precalculus A & B**

Precalculus is a traditional approach to the study of linear relations and functions, polynomial and rational functions, trigonometric functions and their inverses, and trigonometric identities and equations. There will be a continued emphasis on developing algebraic skills needed to solve systems of equations and to work with inequalities and exponential and logarithmic functions and to solve problems that require the use of polar coordinates and complex numbers. The course will culminate with an introduction of the fundamental concepts of calculus with investigations involving limits, derivatives, and integrals. Students who are planning on continuing with calculus at the college level and those considering a technical major (e.g., math or engineering) should enroll in this class.

**GRADES:** 11, 12**PREREQUISITE:** Sequential; successful completion of Algebra 2. The TI-83 or equivalent graphing calculator will be required for this class.**GRAD REQ CODES:** MA, EL**TRANSCRIPT CODES:** B, Q**NCAA ELIGIBLE**

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**3911A / 3912A AP Statistics 1 & 2**

Two semesters of AP Statistics are the equivalent of a one-semester, introductory college course in statistics. Students will be introduced to the major concepts and tools of statistics used to interpret and draw conclusions from real-world data. Topics will include: exploring data; sampling and experimentation; probability, and distributions; and statistical inference. Students will develop connections between all aspects of the statistical process and become proficient at thinking critically, communicating, and justifying conclusions effectively using statistical terminology and formulas. Students should expect a rigorous curriculum and they are expected to take the AP Statistics exam in May. The exam score may qualify a student for college placement advantages or college credit.

**GRADES:** 10, 11, 12**PREREQUISITE:** Successful completion of math classes through Algebra 2. The TI-83 or equivalent graphing calculator will be required for this class.**GRAD REQ CODES:** MA, EL**TRANSCRIPT CODES:** A, B, Q**NCAA ELIGIBLE**

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**3913A / 3914A AP Calculus AB 1 & 2**

AP Calculus AB includes a study of functions, limits, derivatives, integration, transcendental functions, and plane analytic geometry. The courses utilize graphical, numerical, and symbolic approaches to calculus. Students should expect a rigorous curriculum, and they are expected to take the AP Calculus AB Exam. The exam score may qualify a student for college placement advantages or college credit.

**GRADES:** 11, 12**PREREQUISITE:** Sequential; Precalculus. The TI-83 or equivalent graphing calculator will be required for this class.**GRAD REQ CODES:** MA, EL**TRANSCRIPT CODES:** A, B, Q**NCAA ELIGIBLE**

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**3915A / 3916A AP Calculus BC 1 & 2**

AP Calculus BC covers the entire AP Calculus AB curriculum, plus further topics in the BC curriculum. These additional topics include infinite series, the calculus of polar coordinates and vectors, Euler's method, logistic growth, and arc length and surface area of solids of revolution. These courses prepare students to take either the AP AB Calculus Exam or the AP BC Calculus Exam. Students should expect a rigorous curriculum, and they are expected to take the AP Calculus AB or BC Exam. The exam score may qualify a student for college placement advantages or college credit.

**GRADES:** 11, 12**PREREQUISITE:** Sequential; Precalculus. The TI-83 or equivalent graphing calculator will be required for this class.**GRAD REQ CODES:** MA, EL**TRANSCRIPT CODES:** A, B, Q**NCAA ELIGIBLE**

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**3111R / 3112R Algebra 1A & 1B**

Algebra 1-Resource provides specially designed instruction to students needing a concentrated and individualized approach to mathematics. Students enrolled in this class must have an Individual Educational Plan (IEP). The Algebra 1 core content areas of study include: solving problems, numbers, expressions, and operations, characteristics and behaviors of functions, linear functions, equations and inequalities, quadratic functions and equations, and data and distributions. Students will also reason, problem solve, and communicate mathematically in this course. Algebra 1-R Courses are sequential and skill based to match individual student goals.

**GRADES:** Placement  
**PREREQUISITE:** Individual Education Plan  
**GRAD REQ CODES:** MA, EL

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**3211R / 3212R Geometry A & B**

Geometry A & B-Resource provides specially designed instruction to students needing a concentrated and individualized approach to mathematics. Students enrolled in this class must have an Individual Educational Plan (IEP). Geometry covers two semesters and will continue to build upon the foundations that were established in Algebra 1. The core content areas of study include: logical arguments and proofs, lines and angles, two-and three-dimensional figures, the coordinate plane, and geometric transformations. Students will also reason, problem solve, and communicate mathematically in this course. Geometry A & B-Resource courses are sequential and skill-based to match individual student goals.

**GRADES:** Placement  
**PREREQUISITE:** Individual Education Plan  
**GRAD REQ CODES:** MA, EL

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**3811R / 3812R Problem-Solving Algebra A & B**

Problem Solving Algebra A & B-Resource provides specially designed instruction to students needing a concentrated and individualized approach to mathematics. Students enrolled in this class must have an Individual Educational Plan (IEP). Students will explore real-life applications of Algebra concepts and continue to expand on knowledge gained in Algebra 1-R. Students will also reason, problem solve, and communicate mathematically in this course. Problem Solving Algebra-R courses are sequential and skill based to match student goals.

**GRADES:** 11  
**PREREQUISITE:** Individual Education Plan  
**GRAD REQ CODES:** MA, EL

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**3421R / 3422R Quantitative and Financial Math 1 & 2**

QFM-Resource provides specially designed instruction to students needing a concentrated and individualized approach to mathematics. Students enrolled in this class must have an Individual Educational Plan (IEP). This senior-only course is designed to bring the real world into the classroom. Guest speakers and real-life simulations will allow students to explore how math impacts their everyday lives. Topics will include personal banking, career planning, financial planning, household budgets, money management, investing, consumer purchasing, credit, insurance, and taxes.

**GRADES:** Placement  
**PREREQUISITE:** Individual Education Plan  
**GRAD REQ CODES:** MA, EL

# Science

Students graduating from STEM Academy at SVT (2020) must earn two credits in Science, one credit being a lab science. It is highly recommended that students complete Chemistry and/or Physics for a 4-year college. Students in the class of 2021 & beyond must have three credits of science, including two lab sciences.

Course Number	Course Name	Prereq?	Recommended Grade Level	Course Code
4311 / 4312	Chemistry 1 & 2	Yes	10, 11, 12	B, Q, S
4411 / 4412	Physics 1 & 2	Yes	10, 11, 12	B, Q, S
4911A / 4912A	AP Biology 1 & 2*	Yes	11, 12	A, B, S

\*Summer Homework

### *Additional Courses Cross-Credited with Science:*

8249/8250	<b>Computer Science Principles</b>	Course information on page 23
8249A/8250A	<b>AP Computer Science Principles</b>	Course information on page 23
8321/8322	<b>Engineering Physics</b>	Course information on page 24
8407/8408	<b>Intro to Environmental Engineering</b>	Course information on page 24
8411/8412	<b>Principals of Biomedical Science</b>	Course information on page 24
8421/8422	<b>Human Body Systems</b>	Course information on page 24
88807/88808	<b>Advanced Biomedical Applications</b>	Course information on page 25
88863/88864	<b>Emergency Medical Services</b>	Course information on page 25
88871A/88872A	<b>AP Computer Science &amp; App Dev.</b>	Course information on page 25

## 4311 / 4312 **Chemistry 1 & 2**

Chemistry 1 and 2 offer the prospective student a firm background in chemistry. These courses develop skills in problem solving using the scientific method, technical writing, equipment manipulation, and applied mathematics. Important topics studied include: acids and bases, salts, atomic theory and structure, chemical bonds, chemical formulas and equations, thermodynamics, gas laws, kinetic theory, solutions, concentrations, and stoichiometry. This class is not a graduation requirement; it does qualify as an algebra-based science lab class for Washington state 4-year universities.

**GRADES:** 10, 11, 12

**PREREQUISITE:** Algebra 2 highly recommended

**GRAD REQ CODES:** SC, EL

**TRANSCRIPT CODES:** B, Q, S

**NCAA ELIGIBLE**

## 4411 / 4412 **Physics 1 & 2**

Physics 1 and 2 offer the prospective student a firm background in physics. These courses develop skills in problem solving using the scientific method, technical writing, equipment manipulation, and applied mathematics. Important topics include: kinematics, vectors, two-dimensional motion, universal gravitation, circular motion, waves, and electricity. This class is not a graduation requirement; it does qualify as an algebra-based science lab class for Washington state 4-year universities.

**GRADES:** 11, 12

**PREREQUISITE:** Algebra 2 highly recommended

**GRAD REQ CODES:** SC, EL

**TRANSCRIPT CODES:** B, Q, S

**NCAA ELIGIBLE**

## 4911A / 4912A **AP Biology 1 & 2**

AP Biology offers the prospective college-bound student a firm background in biology. These courses are designed to prepare students for the AP Biology Exam and college by developing skills in problem solving using the scientific method, technology and technology equipment, technical writing, and inquiry-based learning. Topics include chemistry, cells, genetics, evolution, plant and animal physiology, and function. Students should expect a rigorous curriculum, and they are expected to take the AP Biology Exam. The exam score may qualify a student for college placement advantages or college credit.

**GRADES:** 11, 12

**PREREQUISITE:** Chemistry highly recommended.

**GRAD REQ CODES:** SC, EL

**TRANSCRIPT CODES:** A, B, S

**NCAA ELIGIBLE**

# Social Studies

Students must earn three social studies credits. Specific requirements are listed in the course descriptions.

Course Number	Course Name	Prereq?	Recommended Grade Level	Course Code
5211 / 5212	World History 1 & 2	No	10	B
5311 / 5312	U.S. History 1 & 2	No	11	B
5410	Civics	No	12	B
5420	Current World Problems	No	12	B

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## 5211 / 5212      **World History 1 & 2**

Students are exposed to a global perspective of our world. Students will develop a greater understanding of the evolution of globalization. More specifically, students will study the development and interaction of cultures, the interactions between humans and the environment, and the creation, expansion, and interaction of economic, political, and social systems. This understanding will develop from a combination of factual knowledge, social science perspectives, and analytical skills. Special attention will be given to helping students work with their informational reading and writing skills throughout the year. This full-year course is a graduation requirement beginning with the Class of 2017.

**GRADES:** 10  
**PREREQUISITE:** None; Sequential  
**GRAD REQ CODES:** WH, SS, EL  
**TRANSCRIPT CODES:** B  
**NCAA ELIGIBLE**

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## 5311 / 5312      **U.S. History 1 & 2**

Successful completion of U.S. History 1 and 2 meets the district graduation requirement for U.S. History. Students investigate the transition from the United States becoming an industrial nation to its emergence as a world power in the 20th century. Students study the transition of our country from rural agrarian society to an urban industrialized society and the conflict created by that change. Students also study presidential administrations, social issues, economics, and conflict and culture with a focus on the Civil War, the Progressive Era, World War I, the Great Depression, World War II, and the Cold War. Students further study the evolution of modern American society from a comparative study of the decades beginning with the 1950s.

**GRADES:** 10, 11  
**PREREQUISITE:** None; Recommended for juniors.  
**GRAD REQ CODES:** US, SS, EL  
**TRANSCRIPT CODES:** B  
**NCAA ELIGIBLE**

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## 5410      **Civics**

Civics is a district and state graduation requirement. The one-semester course examines the foundation of federal, state, and local government, focusing on organization and procedure, rights, and responsibilities of citizens addressed in our Washington state and United States Constitutions; current issues at each level; and electoral issues such as the election process, ballot measures, initiatives and referenda.

**GRADES:** 12  
**PREREQUISITE:** None. Recommended for seniors  
**GRAD REQ CODES:** CI, SS, EL  
**TRANSCRIPT CODES:** B  
**NCAA ELIGIBLE**

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## 5420      **Current World Problems**

Completion of Current World Problems (CWP) meets a district graduation requirement. Students will examine the evolution of the post-Cold War world. In this course, students will incorporate current world events and world geography along with an examination of global environmental issues, various economic systems, world cultures, and the concept of global interdependence. Instructional units focus on topics such as terrorism, regional conflicts, world religions, the United Nations, and the Global Economy. This course will enable students to attain a personal comprehension of our world and its geopolitical, economic and social tensions.

**GRADES:** 12  
**PREREQUISITE:** None. Recommended for seniors  
**GRAD REQ CODES:** CW, SS, EL  
**TRANSCRIPT CODES:** B  
**NCAA ELIGIBLE**

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# Health and Fitness

Health and Physical Wellness fulfills a state graduation requirement and is usually completed the freshman year; all other health and fitness classes can be repeated multiple times for credit. Students need two credits of health and fitness courses for graduation.

Course Number	Course Name	Prerequisite?	Recommended Grade Level	Course Code
6110	Health / Physical Wellness	No	9	-
6430 / 6431	Physical Conditioning 1 & 2	No	10	-
6817	Fitness	No	9	-

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## 6110 Health and Physical Wellness

Health and Physical Wellness is designed to provide opportunities for students to develop attitudes and behaviors which promote healthy lifestyles and a positive self-image through applications and evaluation of knowledge and skills relating to: nutrition, anatomy/physiology, mental health, personal fitness, personal safety, consumer health, human growth and development, sexually transmitted diseases, abstinence, and drug education. During inclement weather, alternate activities will be provided to meet class objectives if necessary. This course is a state and district graduation requirement.

**GRADES:** 9  
**PREREQUISITE:** None  
**GRAD REQ CODES:** HF, EL

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## 6430 / 6431 Physical Conditioning 1 & 2

Physical Conditioning is a course designed to improve fitness through a progressive walking or running program. Students will learn how to design a personal fitness program utilizing the FITT principle and goal setting to improve cardiovascular endurance and mileage. Workouts to improve the other five components of fitness will also be included. Nutrition is a key component taught in this class, and students need to be highly motivated to participate in outdoor running/walking. This course may be repeated for credit. This class will go off-campus.

**GRADES:** 10  
**PREREQUISITE:** None  
**GRAD REQ CODES:** HF, EL

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## 6817 Fitness

Cardio Fitness provides a variety of workouts to stimulate fitness growth, encourage life-long fitness, and provide fun while students engage in cardiovascular exercise. The class is designed for the student who is serious about developing strength, flexibility, cardiovascular endurance, and muscular endurance. Students will gain and improve their understanding of the muscular system, gain knowledge and experience with a variety of group fitness activities, and build a foundation on which they can continue a healthy lifestyle for the rest of their lives. During inclement weather, alternate activities will be provided to meet class objectives if necessary. This class will go off-campus.

**GRADES:** 9  
**PREREQUISITE:** None  
**GRAD REQ CODES:** HF, EL

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# Fine Arts

Fine arts courses are designed to develop creative thinking, problem solving, promote all world cultures, and develop a deeper appreciation of the arts. Class of 2020 students need one credit; 2021-2023 students need two credits **OR** an additional PPR credit.

Course Number	Course Name	Prerequisite?	Recommended Grade Level	Course Code
8311 / 8312	Introduction to Engineering 1 & 2	No	9	B, C, Q, T

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## 8311 / 8312 Introduction to Engineering 1 & 2

Students develop problem-solving skills with emphasis on the concept of developing a 3D model or solid rendering of an object. Students focus on application of visualization processes and tools provided by state-of-the-art computer hardware and software. The courses emphasize the design development process of a product and how product models are produced, analyzed, and evaluated using Computer Aided Design. This course is required for entry into the Project Lead the Way (PLTW) Engineering Academy.

This class is cross-credited for CTE, Math, and Fine Arts. To qualify for math credit, students must have met their grade 9 & 10 math requirements. Articulation Options: Students earning a B or better both semesters may earn 3 college credits in CAD 142 (CAD Solid Modeling) at SCC or 10-12th graders who earn a B or better both semesters may earn 4 college credits for MENG 217 3D Parametric CAD from EWU. (See page 7 for additional information.) Students are encouraged to participate in SkillsUSA.

**GRADES:** 9

**PREREQUISITE:** None; Sequential

**GRAD REQ CODES:** MA, FA, CT, EL

**TRANSCRIPT CODES:** B, C, Q, T

**COURSE FEES:** None

# Career and Technical Education

Students need at least one credit in Career and Technical Education (CTE) classes for graduation. Classes are provided within the pathways of Health and Human Services, Business and Marketing Education, Communication and Information Technologies and Engineering, Manufacturing and Design. Credits may also be earned at NEWTECH Skill Center and Spokane Valley Tech.

Course Number	Course Name	Prerequisite?	Recommended Grade Level	Course Code
8165 / 8166	Project Management 1 & 2	No	10	-
8249 / 8250	Computer Science Principles 1 & 2	No	10	B, C, Q, S, T
8249A / 8250A	AP Computer Science Principles 1 & 2	No	10	B, C, Q, S, T
8311 / 8312	Introduction to Engineering 1 & 2	No	9	B, C, Q, T
8321 / 8322	Engineering Physics 1 & 2	Yes	10	B, Q, S
8407 / 8408	Intro to Environmental Engineering 1 & 2	No	10	B, S
8411 / 8412	Principles of Biomedical Science 1 & 2	No	9	B, S
8421 / 8422	Human Body Systems 1 & 2	Yes	10	B, S
88801 / 88802	Advanced Manufacturing 1 & 2	No	12	B
88803 / 88804	Advanced Engineering 1 & 2	Yes	11, 12	B, S, T
88807 / 88808	Advanced Biomedical Applications 1 & 2	Yes	11, 12	B, S
88863 / 88864	Emergency Medical Services 1 & 2	Yes	12	B, S
88871A / 88872A	AP Computer Science and App Development 1 & 2	Yes	11, 12	A, B, C, Q, S

## 8165 / 8166 Project Management 1 & 2

Successful project management skills are in high demand with today's complex, competitive global environment. Project Management allows students to apply their knowledge and skills to plan and guide a comprehensive project or projects from start to finish. Students will demonstrate these skills through project/event planning, risk, cost and time management, contracts, decision-making and human resources to achieve a specific goal. Students earn .25 credit each semester.

**GRADES:** 10  
**PREREQUISITE:** None  
**GRAD REQ CODES:** CT, EL  
**COURSE FEES:** None

## 8249 / 8250 Computer Science Principles 1 & 2

This exciting year-long course developed by Code.org introduces students to foundational concepts of computer science. Students experience a blend of online, guided tutorials, and open-ended, project-based learning. They'll learn from a diverse cast of role models, from tech celebrities to social innovators who are using CS to tackle society's problems. Digital manipulation, problem-solving applications and innovative implications come together as students develop their programming abilities and learn to design technology applications for the future. These courses are cross-credited with CTE and Lab Science. Students meeting course competencies may be eligible for 5 college credits through SFCC for course IS 125 or from EWU for course CSCD 110. Students are encouraged to participate in SkillsUSA.

**GRADES:** 10  
**PREREQUISITE:** None  
**GRAD REQ CODES:** SC, CT, EL  
**TRANSCRIPT CODES:** B, C, Q, S, T  
**NCAA ELIGIBLE**



## 8249A / 8250A AP Computer Science Principles 1 & 2

This exciting year-long course developed by Code.org introduces students to foundational concepts of computer science. Students will experience a blend of online, guided tutorials and open-ended, project-based learning. They'll learn from a diverse cast of role models, from tech celebrities to social innovators who are using CS to tackle society's problems. Digital manipulation, problem-solving applications and innovative implications come together as students develop their programming abilities and learn to design technology applications for the future. These courses are cross-credited with CTE, Math, and Science. Upon reaching their senior year, students may request this class for math equivalency. Students completing this course will have the opportunity to take the Advanced Placement CS Principles exam. The exam score may qualify a student for college placement advantages or college credit. Students are encouraged to participate in the Cyber Patriot organization.

**GRADES:** 10, 11, 12  
**PREREQUISITE:** Geometry 1 & 2; Intro to Computer Science recommended for grade 10, or with instructor approval.  
**GRAD REQ CODES:** MA, SC, CT, EL  
**TRANSCRIPT CODES:** A, B, Q, S  
**NCAA ELIGIBLE**





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**8311 / 8312 Introduction to Engineering 1 & 2**

Students develop problem-solving skills with emphasis on the concept of developing a 3D model or solid rendering of an object. Students focus on application of visualization processes and tools provided by state-of-the-art computer hardware and software. The courses emphasize the design development process of a product and how product models are produced, analyzed, and evaluated using Computer Aided Design. This course is required for entry into the Project Lead the Way (PLTW) Engineering Academy.

This class is cross-credited for CTE, Math, and Fine Arts. To qualify for math credit, students must have met their grade 9 & 10 math requirements. Articulation Options: Students earning a B or better both semesters may earn 3 college credits in CAD 142 (CAD Solid Modeling) at SCC or 10-12th graders who earn a B or better both semesters may earn 4 college credits for MENG 217 3D Parametric CAD from EWU. (See page 7 for additional information.) Students are encouraged to participate in SkillsUSA.

**GRADES:** 9  
**PREREQUISITE:** None  
**GRAD REQ CODES:** MA, FA, CT, EL  
**TRANSCRIPT CODES:** B, C, Q, T  
**COURSE FEES:** \$25.00

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**8321 / 8322 Engineering Physics 1 & 2**

A year-long course, this is the second sequence in the Project Lead the Way (PLTW) Engineering Academy. Students learn to understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes helps students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change. This class is cross-credited for CTE and Science. Students are encouraged to participate in SkillsUSA.

**GRADES:** 10  
**PREREQUISITE:** Introduction to Engineering 1 and 2  
**GRAD REQ CODES:** SC, CT, EL  
**TRANSCRIPT CODES:** B, Q, S  
**NCAA ELIGIBLE**

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**8407 / 8408 Intro to Environmental Engineering 1 & 2**

Environmental Engineering is a year long course. Throughout the year, students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply, and renewable energy. Applying their knowledge through hands-on activities and simulations, students research and design potential solutions to these true-to-life challenges. This class is cross-credited for CTE and Science.

**GRADES:** 10  
**PREREQUISITE:** None  
**GRAD REQ CODES:** SC, CT, EL  
**TRANSCRIPT CODES:** B, S  
**NCAA ELIGIBLE**

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**8411 / 8412 Principles of Biomedical Science 1 & 2**

Students investigate human body systems and health conditions including heart disease, diabetes, sickle cell disease, hypercholesterolemia, and infectious diseases. They determine factors that led to the death of a fictional person and investigate lifestyle choices and medical treatments that might have prolonged their life. Activities and projects introduce students to human physiology, medicine, research and bioinformatics. This is the first year of the Project Lead the Way (PLTW) biomedical science sequence. This class is cross-credited for CTE and Science. Students are encouraged to participate in HOSA.

**GRADES:** 9  
**PREREQUISITE:** None  
**GRAD REQ CODES:** SC, CT, EL  
**TRANSCRIPT CODES:** B, S  
**NCAA ELIGIBLE**

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**8421 / 8422 Human Body Systems 1 & 2**

Students examine the interactions of human body systems as they explore identity, power, movement, protection and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through real-world cases, and play the roles of biomedical professionals to solve medical mysteries. This is the second year of the Project Lead the Way (PLTW) biomedical science sequence. This class is cross-credited for CTE and Science. Students are encouraged to participate in HOSA.

**GRADES:** 10  
**PREREQUISITE:** Sequential; Principles of Biomedical Science 1 and 2 or teacher permission  
**GRAD REQ CODES:** SC, CT, EL  
**TRANSCRIPT CODES:** B, S  
**NCAA ELIGIBLE**

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**88801 / 88802    Advanced Manufacturing 1 & 2**

Advanced Manufacturing is a year-long course where students learn a wide range of manufacturing skills in a businesslike environment. Through hands-on practice, students learn industry safety processes, print reading, customer-focused design, precision measurement, sheet metal fabrication, welding fabrication, 3D printing, laser cutting/engraving, and manual machining. Students maintain shop equipment, collaborate on major fabrication projects, and use LEAN to improve efficiency. Students can earn industry certifications in Additive Manufacturing and CAD. Completion of Advanced Manufacturing earns students two CTE credits and one Applied Math credit. Graduates of the program have launched manufacturing careers/apprenticeships and succeeded in post-secondary technical/engineering education. Students are encouraged to participate in SkillsUSA.

**GRADES:** 12  
**PREREQUISITE:**  
**GRAD REQ CODES:** MA, CT, EL  
**TRANSCRIPT CODES:** B

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**88803 / 88804    Advanced Engineering 1 & 2**

During this yearlong course, students in Advanced Engineering work through problems that engage and challenge. Students explore a broad range of engineering topics that include mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Become a member of a highly successful SkillsUSA competitive team. An internship may also be available. This course is cross-credited for CTE and math.

**GRADES:** 11, 12  
**PREREQUISITE:** IED and EP recommended or instructor approval  
**GRAD REQ CODES:** SC, CT, EL  
**TRANSCRIPT CODES:** B, T, S  
**NCAA ELIGIBLE**

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**88807 / 88808    Advanced Biomedical Applications 1 & 2**

Working with the same equipment and tools used by lab professionals, PLTW Biomedical Science students are empowered to explore and find solutions to some of today's most pressing medical challenges. Through scaffolded activities that connect learning to life, students step into the roles of biomedical science professionals and investigate topics including human medicine, physiology, genetics, microbiology, and public health. Students work together in teams to find unique solutions, and in the process, learn in-demand, transferable skills like critical thinking and communication. This course is cross-credited for CTE and Science. Students are encouraged to participate in HOSA.

**GRADES:** 11, 12  
**PREREQUISITE:** PBS and HBS recommended or instructor approval  
**GRAD REQ CODES:** SC, CT, EL  
**TRANSCRIPT CODES:** B, S  
**NCAA ELIGIBLE**

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**88863 / 88864    Emergency Medical Services 1 & 2**

This program will prepare you for the Basic Life Support Healthcare Provider and Emergency Medical Technicians Certification Exams. If you are interested in a healthcare career, this is a great place to start. EMTs are in demand all over the country. This course is taught by a certified paramedic. Students are encouraged to participate in HOSA.

**GRADES:** 12  
**PREREQUISITE:** None  
**GRAD REQ CODES:** SC, CT, EL  
**TRANSCRIPT CODES:** B, S

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**88871A & 88872A    AP Computer Science & App Development 1 & 2**

Over the course of the school year students will learn relevant computer science skills and be prepared to take the AP exam for the potential to earn college credit in high school. The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. This course is cross-credited for science and CTE. Students meeting course competencies may be eligible for EWU college credit. (See page 7 for additional information.) Students are encouraged to participate in SkillsUSA.

**GRADES:** 11, 12  
**PREREQUISITE:** Computer Science Principles recommended  
**GRAD REQ CODES:** MA, SC, CT, EL  
**TRANSCRIPT CODES:** A, B, C, Q, S

# Non-Departmental Electives

Course Number	Course Name	Prerequisite?	Recommended Grade Level	Course Code
9120 / 9130	Leadership Development 1 & 2	Yes	10	-
9141 / 9142	ASB Leadership 1 & 2	No	11, 12	-
9301 / 9302	School Skills	Yes	9, 10, 11, 12	-
9341 / 9342	Yearbook A & B	Yes	11, 12	-
950300	Office Assistant	Yes	9, 10, 11, 12	-

## 9120 / 930 Leadership Development 1 & 2

This course allows students to apply their knowledge and skills to plan and guide a comprehensive project or projects from start to finish. Students will demonstrate these skills through project/event planning, risk, cost and time management, contracts, decision-making and human resources to achieve a specific goal.

**GRADES:** 10

**PREREQUISITE:** Currently enrolled in coordinated course; see Counselor for info

**GRAD REQ CODES:** EL

## 9141 / 9142 ASB Leadership 1 & 2

These courses focus on planning and implementing activities to maintain and improve SVT's culture and climate through the support of all curricular and extra-curricular activities. These courses will require a student to be self-motivated and willing to serve all students and staff in SVT's community.

**GRADES:** 11, 12

**PREREQUISITE:** None

**GRAD REQ CODES:** EL



## 9301 / 9302 School Skills

School Skills provides specifically designed instruction to students needing a concentrated and individualized approach to reading, writing, and transition services. Students enrolled in this class must have an Individual Educational Plan (IEP). Students will work on reading and writing skills.

**GRADES:** Placement

**PREREQUISITE:** IEP

**GRAD REQ CODES:** EL

## 9341 / 9342 Yearbook A & B

Layout design, photography, and creative writing will be emphasized in this class. Time will be spent on reporting various events, gathering information from interviews, and meeting deadlines for page production. Some after-school time will be required by all students. Students will work in teams and must be able to cooperate and solve problems. Students should plan on taking Yearbook first and second semesters. Students will develop skills in graphic design, time management, decision making, and organization.

**GRADES:** 9, 10, 11, 12

**PREREQUISITE:** Instructor approval

**GRAD REQ CODES:** EL

## 950300 Office Assistant

Students develop and use clerical skills while working in the school's main office. This includes answering the phone, using office machines, and exhibiting professional office procedures. This course may only be taken once per year.

**GRADES:** 11, 12

**PREREQUISITE:** Administrator approval

**GRAD REQ CODES:** EL

## 77901 / 77902 Running Start

Running Start is a college-credit program that allows students to earn high school and college credit simultaneously at Spokane Community College (SCC), Spokane Falls Community College (SFCC), or Eastern Washington University (EWU).

**Prerequisites:** Students must have junior status, a minimum of eleven earned credits, and meet college entrance requirements including GPA and/or appropriate SAT or ACT scores or writing sample scores.

**Cost:** Students are responsible for fees, books, supplies, transportation and any credits exceeding the 1.2 FTE maximum between the high school and college.

**Program:** Students may attend classes at high school and participate in all school activities. Check with Running Start counselors for details and applications. Students are responsible for obtaining information listed in the daily bulletin at the high school and for completing the High School and Beyond Plan (HSBP) assignments. It is their responsibility to maintain contact with the School Counselor. In the event that a student withdraws from CVSD, he/she must also withdraw from Running Start.

**Graduation Ceremony:** Seniors should plan to complete all SVT graduation requirements by the end of winter term.

**GRADES:** 11, 12

**PREREQUISITE:** Application and college acceptance

**GRAD REQ CODES:** ALL CODES AVAILABLE

**TRANSCRIPT CODES:** R

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