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WASHINGTON VIRTUAL ACADEMIES
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Omak School District
Washington Virtual Academies
High School

COURSE CATALOG
2024-2025

Last Revised: 05.22.24
Fall Semester Edition

Welcome to the WAVA High School 2024-2025 Course Catalog

WAVA High School offers a variety of options for students who wish to earn credits at both the high school and college level with Career & Technical Education and Running Start.

This guide has been prepared as a resource for you. If you have questions, please seek advice from your WAVA High School Counselor.

WAVA High School Contacts

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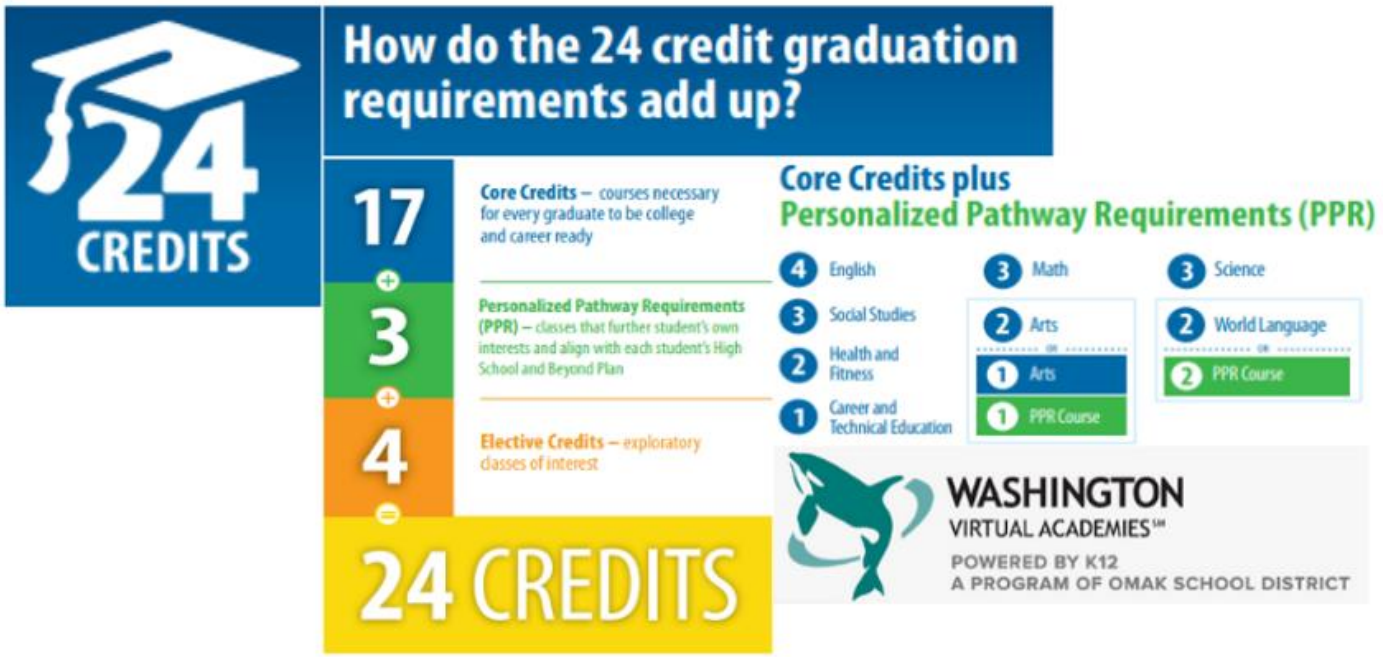
State of Washington Graduation Requirements

The State of Washington has a robust set of requirements for high school graduation. To earn a diploma, students must:

1: **Earn 24 Credits in Designated Areas:** English, Math, Science, Social Studies, Health/Physical Education, CTE, Art, World Language and Electives.



2: **Complete a Graduation Pathway**: Graduation Pathways should be aligned to a student's High School & Beyond Plan.

3: **Complete the High School & Beyond Plan:** The purpose is to guide the student's high school experience and prepare the student for postsecondary education/training (ESHB 2224, Chapter 31, Laws of 2017). The High School & Beyond Plan represents what students learned about their skills, interests, and goals for post high school.

Washington Virtual Academy ***Graduation Checklist***				
Subject	**Credits**		**Course Choices**	
English	**4.0**	1.0	☐ English 9	
		1.0	☐ English 10	
		1.0	☐ American Literature	
		1.0	☐ Option A: British & World Literature	☐ Option B: English electives
Math	**3.0**	1.0	☐ Algebra 1	
		1.0	☐ Geometry	
		1.0	☐ Option A: Algebra 2	☐ Option B: other 3rd year math (see Course Description section)
Science	**3.0**	1.0	☐ Lab Science	
		1.0	☐ Lab Science	
		1.0	☐ Science	
Social Studies	**3.0**	1.0	☐ US History	
		0.5	☐ Modern World Studies	
		0.5	☐ Civics	
		1.0	☐ Social Studies electives (typically 0.5 Modern World Studies B and 0.5 credit Geography)	
Arts/PPR	**2.0**	1.0	☐ Arts	
		1.0	☐ Arts or PPR*	
Health & Fitness	**2.0**	0.5	☐ Personal Fitness I	
		0.5	☐ Personal Fitness II	
		0.5	☐ Physical Education	
		0.5	☐ Health	
Career & Technical Education (CTE)	**1.0**	1.0	☐ CTE	
World Language/PPR	**2.0**	2.0	☐ World Language or PPR*	
Electives	**4.0**	4.0	☐ Electives	
Total Required Credits	**24.0**			
Other Graduation Requirements		☐ Graduation Pathway (see next section for details) ☐ High School & Beyond Plan ☐ Washington State History (Typically taken in middle school. Can take as Social Studies elective at WAVA if needed.)		

**PPR = Personal Pathway Requirement = Courses that relate to a post-high school career or educational interest and align with High School & Beyond Plan*

Running Start

In addition to the courses listed in this guide, Running Start is available to WAVA's 11th and 12th grade students. Running Start is a Washington State-funded program that offers tuition-free college courses at Washington's community and technical colleges, some public universities, and Northwest Indian College. For more information, visit OSPI's FAQ Document.

Important: Students will need to work closely with their WAVA High School Counselor when selecting Running Start courses to make sure high school graduation requirements are met.

Benefits of participating in Running Start include: the chance to experience post-secondary education while in high school, which can help with transition to full-time college after high school; up to two years of tuition-free college credit, saving on the overall cost of college education; potential to earn an associate degree along with their high school diploma with careful academic planning; flexible class schedules (day, afternoon, evening, hybrid or online options); and the opportunity to take courses that may not be offered by high schools.

Before signing up for Running Start, students and families should consider: the pacing of college courses is MUCH faster than high school level courses; there are fees associated with Running start (fee waivers are available for students who qualify); college calendars usually do not match the high school calendar for holidays and finals; students must have their own transportation; college is an adult learning environment and courses may cover controversial issues; students are treated as college students and are responsible for interacting with professors; communication directly with parents may be limited.

Students may begin Running Start during any term of 11th grade or wait until 12th grade. The Running Start office at each participating college will have information about their application process. Plan on attending a Running Start information session typically held by participating colleges in late winter/early spring in preparation for the fall term. Each Running Start college has individual registration deadlines.

To select their Running Start courses, students work with their WAVA High School Counselor to complete the required Running Start Enrollment Verification Form (RSEVF). This form is how the college and high school communicate about students and courses, including payment of tuition.

Graduation Pathways at WAVA High School

In addition to earning 24 credits in the required subject areas and courses, the state requires students to meet one graduation pathway that is aligned with their plans for after high school (as identified in their High School and Beyond Plan). For more information regarding Washington's graduation pathways, please visit: https://www.k12.wa.us/student-success/graduation/graduation-requirements/graduation-pathways.

Beginning with the Class of 2020, students must meet at least one of these pathway options to graduate:

1. **State Assessment:** Meet or exceed the graduation scores in the Smarter Balanced Assessments (SBA) in English Language Arts (ELA) and mathematics or in WA-AIM (Washington Access to Instruction & Measurement).

2. **Dual Credit:** Earn at least one high school credit in ELA and at least one high school credit in math in dual credit courses (Running Start, College in the High School, and/or Career and Technical Education Dual Credit courses).

3. **AP/IB/Cambridge:** For both ELA and math, earn a 3 or higher on certain Advanced Placement (AP) exams or a 4 or higher on certain International Baccalaureate (IB) exams or an E on certain Cambridge International exams, or pass the course with at least a C+.

4. **SAT/ACT:** Meet or exceed the graduation scores set by SBE in the math and ELA portions of the SAT or ACT**.**

5. **Combination**: Meet any combination of at least one ELA and one math option of those options listed in 1-4.

6. **ASVAB**: Meet standard on the ASVAB (Armed Services Vocational Aptitude Battery) by scoring at least the minimum established by the military for eligibility to serve in a branch of the armed services.*

7. **CTE Sequence**: Complete a sequence of Career and Technical Education (CTE) courses. Students must earn at least 2.0 credits in one of the following program areas listed in the table below. Students must work with their school counselor to help track these requirements (See next page for more details). *

* Note: Students who pursue these pathways (ASVAB or CTE) do not need to meet English and math requirements separately. English and math content are embedded in both pathways—and a student who meets either the ASVAB standard or the CTE pathway requirements has met the graduation pathway requirement.

CTE Graduation Pathway Program Areas

To meet the requirements of this pathway, students must earn at least 2.0 credits in **one** of the following program areas. The courses must be selected from the same program area column below. **Students must work with their school counselor to help track these requirements.**

Business and Marketing		Family and Consumer Sciences	Health Sciences	Skilled and Technical Sciences	General Science Technical Engineering and Math (STEM)
BUS030A **Basics of Financial Literacy 1** (0.5 credit)	TCH342A **Intro to Python Programming 1** (0.5 credit)	OTH200 **Intro to Education** (0.5 credit)	OTH092 **Health Sciences 1** (0.5 credit)	CAR022 **Construction Explorations** (0.5 credit)	MFG010 **Basic Grade and Construction Math** (0.5 credit)
BUS030B **Basics of Financial Literacy 2** (0.5 credit)	TCH342B **Intro Python Programming 2** (0.5 credit)	OTH060 **Family and Consumer Resources** (0.5 credit)	OTH094 **Health Sciences 2** (0.5 credit)	TCH410 **Game Design Using Unity 1** (0.5 credit)	AGR200 **Energy and Environmental Design** (0.5 credit)
BUS300 **Entrepreneurship** (0.5 credit)	TCH323A **Intro to JAVA programming 1** (0.5 credit)	OTH071 **Culinary Arts 1** (0.5 credit)	HLT041 **Biotechnology 1** (0.5 credit)	TCH411 **Game Design Using Unity 2** (0.5 credit)	TCH160 **Introduction to Robotics** (0.5 credit)
BUS065 **Marketing 1** (0.5 credit)	TCH325A **Network+ (CompTIA)** (0.5 credit)	OTH072 **Culinary Arts 2** (0.5 credit)	HLT042 **Biotechnology 2** (0.5 credit)	TCH310 **Adobe Photoshop** (0.5 credit)	TCH162 **Robotics 2** (0.5 credit)
BUS075 **Marketing 2** (0.5 credit)	TCH325B **Network+ (CompTIA)** (0.5 credit)	OTH300 **Food Handler Cert** (0.5 credit)	SCI330 **Anatomy and Physiology 1** (0.5 credit)	TCH330 **Adobe Illustrator** (0.5 credit)	TCH181 **Introduction to AI** (0.5 credit)
BUS410 **Business Communications 1** (0.5 credit)	TCH145 **Data Science** (0.5 credit)	OTH161 **Early Childhood Education 1** (0.5 credit)	SCI330 **Anatomy and Physiology 2** (0.5 credit)	TCH410 **Adobe Premiere Pro** (0.5 credit)	TCH485 **Foundations of AI** (0.5 credit)
BUS420 **Business Communications 2** (0.5 credit)	TCH100A **Foundations of Computer Science** (0.5 credit)	OTH162 **Early Childhood Education 2** (0.5 credit)	ORN200 **Navigating your Future** (0.5 credit)	OTH 131 **Architectural Design 1** (0.5 credit)	TCH130 **Foundations of Engineering Science** (0.5 credit)
TCH047 **Web Design 1** (0.5 credit)	BUS400 **Project Management** (0.5 credit)	OTH190 **Managing the Learning Environment** (0.5 credit)		OTH233 **Architectural Design 2** (0.5 credit)	TCH120 **Engineering Design and Presentation** (0.5 credit)
TCH110 **Microsoft Word** (0.5 credit)	BUS110 **Social Media Marketing** (0.5 credit)	OTH220 **Educational Technology** (0.5 credit)		MFG201E2 **Basic Construction Equipment Fundamentals** (0.5 credit)	ORN200 **Navigating your Future** (0.5 credit)
TCH220 **Microsoft Excel** (0.5 credit)	BUS100 **Startups and Innovation** (0.5 credit)	ORN200 **Navigating your Future** (0.5 credit)		MFG202 **Mobile Equipment Maintenance** (0.5 credit)	
	ORN200 **Navigating your Future** (0.5 credit)			TCH076E2 **3D Modeling 1** (0.5 credit)	
				MFG210 **Supply Chain Management** (0.5 credit)	
				ORN200 **Navigating your Future** (0.5 credit)	

Course Selection Guide Default Courses by Grade Level

The following tables show default courses for each grade level in each semester. This table does not reflect the range of all available courses, including honors options. See the rest of this document for courses offered. If students do not respond to selection surveys, these are the classes they will default to:

9th Grade Default Courses	
ENG108A **English 9**	ENG108B **English 9**
MTH128A **Algebra 1**	MTH128B **Algebra 1**
SCI102A **Physical Science** or SCI113A **Earth Science**	SCI102B **Physical Science** or SCI113B **Earth Science**
OTH021 **Personal Fitness 1**	OTH022 **Personal Fitness 2**
Career & Technical Education (CTE) Course	**Career & Technical Education** (CTE) Course
Fine Arts Course	**Fine Arts** Course

10th Grade Default Courses	
ENG208A **English 10**	ENG208B **English 10**
MTH208A **Geometry**	MTH208B **Geometry**
SCI113A **Earth Science/** SCI102A **Physical Science/** SCI203A **Biology**	SCI113B **Earth Science/** SCI102B **Physical Science/**SCI203B **Biology**
HST203A **Modern World Studies**	HST203B **Modern World Studies**
OTH020 **Personal Fitness**	OTH010 **Skills for Health**
Elective Course or **World Language** Course	**Elective** Course or **World Language** Course

11th Grade Default Courses for Standard Diploma	
ENG303A **American Literature**	ENG303B **American Literature**
MTH308A **Algebra 2** or Alternate **Math** Course	MTH308B **Algebra 2** or Alternate **Math** Course
HST303A **US History**	HST303B **US History**
Science Course	**Science** Course
Elective Course	**Elective** Course
Elective Course	**Elective** Course

11th Grade Default Courses for Four-Year College Admissions	
ENG303A **American Literature**	ENG303B **American Literature**
MTH308A **Algebra 2**	MTH308B **Algebra 2**
HST303A **US History**	HST303B **US History**
SCI303A **Chemistry** or SCI203A **Biology**	SCI303B **Chemistry** or SCI203B **Biology**
World Language Course	**World Language** Course
Elective Course	**Elective** Course

12th Grade Default Course for Standard Diploma	
English Course	**English** Course
HST040 **Civics**	**History Course** or HST105 **Washington State History***
Elective Course	**Elective** Course
Elective Course	**Elective** Course
Elective Course	**Elective** Course

12th Grade Default Courses for Four-Year College Admissions	
ENG403A **British & World Literature**	ENG403B **British & World Literature**
MTH403A **Pre-Calc./Trig.** or MTH500A **Calculus**	MTH403B **Pre-Calc./Trig.** or MTH500B **Calculus**
HST040 **Civics**	**Social Studies** Course or HST105 **Washington State History***
Elective Course	**Elective** Course
Elective Course	**Elective** Course
Elective Course	**Elective** Course

* Washington State History required for graduation, if not taken and passed in middle school.

WAVA High School Course Offerings 2023-24

Course offerings are subject to change based upon student course selections and available staffing. See course descriptions on the following pages for more information about each course, including specific prerequisite courses and grade-level limitations, if any. *Bracketed information indicates that the course is listed in two departments and may be counted as credit toward either, but not both. Courses marked with → are two semester offerings. Students may continue into the second semester for a yearlong course or take only the first semester.*

ARTS	
Fall Semester	**Spring Semester**
ART010A **Drawing**	ART010B **Painting**
ART020A **Music Appreciation 1**	ART020B **Music Appreciation 2**
ART030 **Art in World Cultures**	ART030 **Art in World Cultures**
CS **Performance Studio**	CS **Performance Studio**

CAREER & TECHNICAL EDUCATION (CTE) *WAVA College and Career Prep*	
HEALTH SCIENCES	
Fall Semester	**Spring Semester**
OTH092 **Health Science 1** [IRC] →	OTH094 **Health Science 2** [IRC]
HLT041 **Biotechnology 1** [CTE/Science] [IRC] →	HLT042 **Biotechnology 2** [CTE/Science] [IRC]
SCI330 **Anatomy and Physiology 1** [CTE/Science] [IRC] →	SCI330 **Anatomy and Physiology 2** [CTE/Science] [IRC]
BUSINESS AND MARKETING	
Fall Semester	**Spring Semester**
BUS030A Basics of **Financial Lit** [CTE/Math] [IRC]	Basics of **Financial Lit** [CTE/Math] [IRC]
BUS300 **Entrepreneurship** [IRC]	BUS100 Startups **and Innovation**
BUS065 **Marketing 1 [IRC]** →	BUS075 Marketing **2 [IRC]**
BUS410 **Business Communications 1** [CTE/ELA] [DC/PW] [IRC] →	BUS420 **Business Communications 2** [CTE/ELA] [DC/PW] [IRC]
TCH110 **Microsoft Word** [DC] [IRC]	TCH110 **Microsoft Word** [DC] [IRC]
TCH220 **Microsoft Excel** [DC] [IRC]	TCH220 **Microsoft Excel** [DC] [IRC]
TCH325A **Network+ (CompTIA)** [IRC]	TCH325B **Network+ (CompTIA)** [IRC]
	TCH145 **Data Science**
TCH047 **Web Design 1** [DRC] [IRC]	TCH047 **Web Design 1** [DRC] [IRC]
	BUS110 **Social Media Marketing** [IRC]
TCH100A **Foundations of Computer Science**	TCH323ADE3 **Intro to Java Programming 1** [IRC]
TCH342A **Intro to Python Programming 1** [IRC] →	TCH342B **Intro to Python Programming 2** [IRC]
SKILLED AND TECHNICAL SCIENCES	
Fall Semester	**Spring Semester**
TCH330 **Adobe Illustrator** [CTE/Art] [IRC]	TCH410 **Adobe Premiere Pro** [CTE/Art] [IRC]
TCH410 **Game Design Using Unity 1** [IRC] →	TCH411 **Game Design Using Unity 2** [IRC]
	TCH076E2 **3D Modeling 1** [IRC]
TCH310 **Adobe Photoshop** [CTE/Art] [IRC]	TCH310 **Adobe Photoshop** [IRC]

[Subject/Subject] Course may be taken for credit in either subject area, but not both.

[DC] Dual Credit Available **[DC/PW]** Dual Credit Available & Graduation Pathway Qualifying **[IRC]** Industry-Recognized Credential Available

CAR022 **Construction Explorations**	MFG210A **Supply Chain Management**
MFG202 **Basic Maintenance of Mobile Equipment**	MFG202 **Basic Maintenance of Mobile Equipment**
	MFG201 **Basic Construction Equipment Fundamentals**
OTH131 **Architectural Design 1** [IRC]	OTH233 **Architectural Design 2** [IRC]

CAREER & TECHNICAL EDUCATION (CTE), continued
WAVA College and Career Prep

GENERAL SCIENCE, TECHNOLOGY, ENGINEERING & MATH (STEM)

Fall Semester	Spring Semester
MFG010 **Basic Grade & Construction Math**	MFG010 **Basic Grade & Construction Math**
AGR200 **Energy and Environmental Design** [CTE/Science]	AGR200 **Energy and Environmental Design** [CTE/Science]
TCH160 **Introduction to Robotics** [IRC] →	TCH162 **Introduction to Robotics 2** [IRC]
TCH181 **Introduction to Artificial Intelligence**	TCH485 **Foundations of AI** [IRC]
TCH120 **Engineering Design and Presentation**	TCH130 **Foundations of Engineering Science**

FAMILY AND CONSUMER SCIENCES

Fall Semester	Spring Semester
OTH220 **Introduction to Education**	OTH190 **Managing the Learning Environment**
OTH060 **Family Consumer Science**	OTH060 **Family Consumer Science**
OTH071 **Culinary Arts 1** [IRC] →	OTH071 **Culinary Arts 2** [IRC]
OTH350 **Food Handler Cert** [IRC]	OTH350 **Food Handler Cert** [IRC]
OTH161 **Early Childhood Education 1** [IRC] →	OTH162 **Early Childhood Education 2** [IRC]
	OTH220 **Educational Technology**

ENGLISH

ENG108A/B **English 9** or ENG109A/B **Honors English 9**

ENG208A/B **English 10** or ENG209A/B **Honors English 10**

ENG303A/B **American Literature** or ENG304A/B **Honors American Literature**

ENG403A/B **British & World Literature** or ENG404A/B **Honors British & World Literature**

Fall Semester	Spring Semester
ENG030A **Creative Writing***	ENG030B **Creative Writing***
OTH036 **Gothic Literature**	ENG010 **Journalism**
BUS410 **Business Communications 1** [CTE/ELA] [DC/PW]→	BUS420 **Business Communications 2** [CTE/ELA] [DC/PW]

**Course content is different in each semester and may be repeated for 1.0 credit.*

GENERAL ELECTIVES

Fall Semester	Spring Semester
PRJ010 **Service-Learning Leadership (ASB)***	PRJ010 **Service-Learning Leadership (ASB)***

**Course content is different in each semester and may be repeated for 1.0 credit.*

HEALTH

Fall Semester	Spring Semester
OTH010 **Skills for Health**	OTH010 **Skills for Health**

[Subject/Subject] Course may be taken for credit in either subject area, but not both.

[DC] Dual Credit Available **[DC/PW]** Dual Credit Available & Graduation Pathway Qualifying [**IRC**] Industry-Recognized Credential Available

HISTORY/SOCIAL STUDIES	
HST203A/B **Modern World Studies** or HST204A/B **Honors Modern World Studies**	
HST303A/B **US History** or HST304A/B **Honors US History**	
Fall Semester	**Spring Semester**
HST105 **Washington State History**	HST105 **Washington State History**
HST040 **Civics**	HST040 **Civics**
HST213A **Geography***	HST213B **Geography***
HST020 **Psychology**	HST020 **Psychology**
HST060 **Sociology**	HST030 **Economics**

**Course content is different in each semester and may be repeated for 1.0 credit.*

MATH	
MTH128A/B **Algebra 1** or MTH129A/B **Honors Algebra 1**	
MTH208A/B **Geometry** or MTH209A/B **Honors Geometry**	
MTH308A/B **Algebra 2** or MTH309A/B **Honors Algebra 2**	
MTH322 **Consumer Math A/B**	
MTH403A/B **Pre-Calculus/Trigonometry**	
MTH433A/B **Calculus**	
Fall Semester	**Spring Semester**
BUS030 **Basics of Financial Literacy** [CTE/Math]	BUS030 **Basics of Financial Literacy 2** [CTE/Math]
MTH413 **Probability and Statistics** →	MTH413 **Probability and Statistics**

PHYSICAL EDUCATION	
Fall Semester	**Spring Semester**
OTH022A **Personal Fitness 1**	OTH022B **Personal Fitness 2**
OTH020A **Physical Education 3**	OTH020B **Physical Education 3**

SCIENCE	
SCI113A/B **Earth Science** (Honors Option Available)	
SCI102A/B **Physical Science**	
SCI203A/B **Biology** or SCI204A/B **Honors Biology**	
SCI303A/B **Chemistry** or SCI304A/B **Honors Chemistry**	
SCI403A/B **Physics**	
Fall Semester	**Spring Semester**
SCI010 **Environmental Science**	SCI030 **Forensic Science**
TCH160 **Introduction to Robotics** [IRC] →	TCH162 **Introduction to Robotics 2** [IRC]
OTH092 **Health Science 1** [IRC] →	OTH094 **Health Science 2** [IRC]
AGR200 **Energy and Environmental Design [Science/CTE]**	AGR200 **Energy and Environmental** [Science/CTE]
OTH033 **Veterinary Science**	OTH033 **Veterinary Science**
HLT041 **Biotechnology 1** [Science/CTE] [IRC] →	HLT042 **Biotechnology 2** [Science/CTE] [IRC]
SCI330 **Anatomy and Physiology 1** [Science/CTE][IRC] →	SCI330 **Anatomy and Physiology 2** [Science/CTE] [IRC]

[Subject/Subject] Course may be taken for credit in either subject area, but not both.

[DC] Dual Credit Available **[DC/PW]** Dual Credit Available & Graduation Pathway Qualifying [**IRC**] Industry-Recognized Credential Available

WORLD LANGUAGE
WLG100A/B **Spanish 1**
WLG200A/B **Spanish 2**
WLG300A/B **Spanish 3**

[Subject/Subject] Course may be taken for credit in either subject area, but not both.

[DC] Dual Credit Available **[DC/PW]** Dual Credit Available & Graduation Pathway Qualifying [**IRC]** Industry-Recognized Credential Available

WAVA High School Course Descriptions

Course descriptions are arranged alphabetically by department. If you have questions about these courses, contact your WAVA High School Counselor.

FINE ARTS

2.0 Fine Art Credits Required OR 1.0 Fine Art Credit + 1.0 PPR Credit

ART010A Drawing (ART010A ART DRW)

Course Length: One Semester
Prerequisite: None
Learn how to draw with this course, using a variety of dry media such as pencils, charcoal, pastels, and more. All skill levels are welcome from beginning to advanced artists. Students will work through topics and skills tied to both observational drawing and drawing from the imagination, as well as develop familiarity with the elements of art and the principles of design. **Required Materials:** sketchbook, drawing pencils in a range of values, colored pencils, charcoal, kneaded eraser, chalk pastels, method for photographing projects (camera or scanner).

ART010B Painting (ART010B ART PNT)

Course Length: One Semester
Prerequisite: None
Learn how to paint with this course, using watercolor and acrylic painting techniques. All skill levels are welcome from beginning to advanced artists. Students will develop basic drawing skills and learn to model with value and color. Students will also develop familiarity with the elements of art and the principles of design. **Materials provided by WAVA:** white clay, set of acrylic paint, set of round paintbrushes. **Additional Required Materials:** multimedia sketchbook, canvas boards, additional paintbrushes, charcoal, method for photographing projects (camera or scanner).

ART020A Music Appreciation 1 (ART020A MUS APP)

Course Length: One Semester
Prerequisite: None
This course introduces students to the orchestra's instruments and to the history of classical music from prehistoric times until about 1750.

ART020B Music Appreciation 2 (ART020B MUS APP)

Course Length: One Semester
Prerequisite: None
This course covers introductory music theory (reading and writing music) as well as the history of classical music from 1750 to the present. Students may enroll in the second semester of the course without having taken the first semester course.

ART030 Art in World Cultures (ART030 ART CULT)

Course Length: One Semester
Prerequisite: None
Learn about works of art and art history through hands-on activities, discussion, and research. This course helps learners to develop an overall appreciation for the art they encounter in their daily lives, in addition to understanding the impact art has had on history.

CS Performance Studio 1 (PERFORM STUDIO)

Project Length: Varies
Prerequisite: Must have prior approval from teacher and high school administrator
If you practice performance art for more than 5 hours per week under a trained instructor, and have live performances throughout the year, you may be able to earn Fine Arts credit. You must be approved by both teacher and administrator to be admitted to the Performance Studio course.

TCH047A Web Design 1 (TCH07A WEB DESI)

Fine Arts or CTE Credit
Dual Credit Eligible
Course Length: One Semester, available both semesters
Prerequisite: Successful completion of first semester required for enrollment in second semester
Web Design is a Code HS course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS and will create their own live homepages to serve as portfolios of their creations. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multipage websites. Students will learn the foundations of user interface design, rapid prototyping, and user testing, and will work together to create professional, mobile responsive websites. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example webpages to explore, and

web design exercises in which students develop and publish their own websites. Each lesson includes at least one formative short multiple-choice quiz. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit. **System Requirements**: Microsoft Windows XP, Windows Vista, or higher operating system; 300 MHz or faster processor; 512 MB of memory (RAM); 64MB of video RAM; OpenGL graphics card with 16 MB RAM; 3-button mouse; 1024 X 768 monitor resolution with 16-bit color; at least 2 GB of available hard drive space. Please note that a Macintosh computer is NOT recommended for this course.

TCH076E2 3D Modeling 1

CTE/Art
Course Length: One Semester
Prerequisite: None

Heart valves, cars, cartoons, and buildings may not seem to have much in common, but they all share one spectacular attribute: all originated as a 3D model. 3D modeling has changed the way the world makes things, and in this course, you'll learn the basics to begin creating in 3D! You'll learn how different 3D models are built and how to practice using a variety of modeling methods. By the end of the course, you'll walk away with a portfolio of your ingenious modeling ideas. 3D modeling is an essential part of the modern world and soon, you'll be able to contribute yourself!

TCH310 Photoshop with Exam Prep (TCH310 MS PHOTO)

Fine Arts or CTE Credit
Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None

This course provides hands-on experience working inside Photoshop, that will show competency at an industry associate-level and is college and career ready. You will demonstrate the correct application of the principal features of Photoshop and complete tasks independently.

TCH330 Illustrator with Exam Prep (TCH310 MS Illustrator)

CTE or Fine Arts Credit
Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None

This course gives students comprehensive training in the fundamentals of design. Topics covered include identifying the purpose, audience, and audience needs for preparing images, communicating with colleagues and clients about design plans, understanding copyright and licensing, using design principles and best practices, setting up projects and utilizing the interface, managing colors, swatches, and gradients, organizing design elements, creating and manipulating visual elements, and preparing images for export to Web, print, and video.

TCH410 Premiere Pro with Exam Prep

CTE or Fine Arts Credit
Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None

This course introduces students to Premiere Pro video editing software, helping them learn how to create projects and sequences, edit video and audio clips, add text, shapes, transitions, and effects, and use the Export feature. It covers topics such as identifying project requirements, the Premiere Pro interface, shooting, importing, and editing a sequence, titles, shapes, transitions, and export formats.

ART050 Beginning Drama

Course Length: One Semester
Prerequisite: Grade 8 Language Arts or equivalent

This course will introduce students to the basics of drama production and theater arts performance. Classwork focuses on the exploration of theatre literature, performance, historical and cultural connections, and technical requirements. Also covered are theater vocabulary, roles in the theatre, movement and acting. Creative dramatics and beginning scene work will be used to introduce students to acting and character development. Effective communication is an important skill to master. In this class, you will practice speaking and writing skills, creativity, and memorization. You must participate to learn. Over time, you will become more comfortable in front of your peers.

Shipped Materials: None.

All reading will be completed online within the lessons.

REQUIRED TEXT

All lessons are on-line.

ART051 Stage Craft

Course Length: One Semester
Prerequisite: Grade 8 Language Arts or equivalent

This course will introduce students to the behind-the-scenes workings of drama productions and theater arts performances. Classwork focuses on developing skills used by theatre technicians and craftspeople in areas of set construction, scenery, costume, lighting, sound and makeup. Students

will also understand the process of creating a theatrical production as it goes from page to stage. They will also learn how to use theatrical tools and materials responsibly and in accordance with industry safety guidelines.
Shipped Materials: None.
All reading will be completed online within the lessons.
REQUIRED ONLINE TEXT
All text is on-line within the lessons.

OTH131 Architectural Design 1

CTE/Art
Course Length: One Semester
Prerequisite: None
Industry Recognized Credential Available
The Architectural Design II course provides specific methodologies used within the field of architecture as well as creative ways to think about and solve design challenges. Students will complete work using AutoCAD software aligned with objectives on the Autodesk.

OTH233 Architectural Design 2

CTE/Art
Course Length: One Semester
Prerequisite: None
Industry Recognized Credential Available
The Architectural Design II course provides specific methodologies used within the field of architecture as well as creative ways to think about and solve design challenges. Students will complete work using AutoCAD software aligned with objectives on the Autodesk Certified User (CAD) Certification exam, including basic drawing skills, modifying objects, annotating drawings, using layouts and printing, and applying accurate skills in dimensioning and scale. In later modules, students will study the built environment by learning about pioneers of architecture and engineering, architectural and engineering design feats, and how architecture and design is and will continue to be influenced by innovative technology.

CAREER & TECHNICAL EDUCATION

WAVA College and Career Prep

1.0 Career & Technical Education (CTE) Credits Required
Additional course credits may be applied as electives or PPRs.

HEALTH SCIENCES

OTH092 Health Science 1 (OTH092 HLTSCI 1)

CTE Credit or Science Credit
Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None
Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and measles identified and diagnosed? Health sciences provide the answers to questions such as these. This course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

OTH094 Health Science 2 (OTH094 HLTSCI 2)

CTE Credit or Science Credit
Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: OTH092 Health Sciences 1
Challenging. Variable. Rewarding. These three words can be used to describe many careers in the health sciences. In this course, you will learn more about what it takes to be a successful health science professional, including how to communicate with patients. You'll explore the rights and responsibilities of both patients and health science professionals in patient care and learn more about how to promote wellness among patients and health care staff. Finally, you'll learn more about safety in health science settings and the challenges and procedures of emergency care, infection control, and blood-borne pathogens.

HLT041 and HLT042: Biotechnology 1 (HLT041 BIOTECH) and 2 (HLT042 BIOTECH)

CTE Credit or Lab Science Credit

Industry Recognized Credential Available
Lab Credit: Yes
Course Length: Two Semesters
Prerequisite: None

Biotechnology is a lab and algebra-based course. In this course you will learn the basics of biotechnology and evolutionary theory, explore the various ways we store and preserve food, discover the process of fermentation and microbiology, breeding plants and hybridization. You will also learn how biotech seeks to cure such deadly diseases as cancer and malaria, develop innovative medicine, and effectively feed the world through improved agricultural systems. Learn about the challenges biotechnology faces today, such as the growth of antibiotic resistant bacteria and questions about the safety of commercially produced genetically modified organisms (GMOs) and new biotechnologies.

SCI330 A/B Anatomy and Physiology (SCI330A ANATOMY)/ (SCI330B ANATOMY)

CTE Credit or Lab Science Credit

Industry Recognized Credential Available
Lab Credit: Yes
Course Length: Two Semesters
Prerequisite: Success in previous high school science course

These courses provide a thorough introduction to the basics required for studying the human body. Students receive a general introduction to life functions, the terminology, and phonetic pronunciations used to describe body parts and their locations, and an overall review of human development, body processes and system functions. This course also includes infection control and standard precautions, which emphasizes the importance of maintaining health and safety in the health-care work environment and highlighting the latest practices and protocols.

BUSINESS AND MARKETING

BUS100 Startups and Innovation

Course Length: One Semester
Prerequisite: None

This course delves into the world of startups, entrepreneurship, and innovation. Explore key topics such as Minimum Viable Products (MVPs), achieving Product-Market Fit, understanding business models, analyzing competition, and embracing disruptive innovation. Learn how to build effective teams, create compelling marketing strategies, write persuasive pitch decks, and raise capital. The course concludes with a wrap-up and a final exam. Whether you're an aspiring entrepreneur or a seasoned business professional, this course equips you with essential knowledge for navigating the dynamic startup landscape.

BUS030 Basic Financial Literacy

CTE or Math Credit

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None

This new course is designed for students in grades 9-12. In this semester-long course, students will explore their choices as producers, consumers, investors, and taxpayers. In addition, they will learn financial literacy skills emphasizing investments, markets, and taxation. Students will apply what they learn to real-world simulation problems.

BUS300 Entrepreneurship

Industry Recognized Credential Available
11th & 12th Grade Only
Course Length: One Semester
Prerequisite: None

BUS300 Entrepreneurship with Exam Prep is MSi curriculum that helps students obtain the first certification product in the Certiport Business Fundamentals Certification Program. In this course, students will gain a foundational understanding of entrepreneurship, small business ownership, and financial literacy. Students will learn how to identify potential business opportunities, design and create a business plan, analyze a company's financial state, and develop marketing and sales strategies. They will also learn the elements of production and distribution and how to identify, access, and use intellectual property.

BUS065 Marketing 1 (BUS065 MARKET 1)

Industry Recognized Credential Available

Course Length: One Semester
Prerequisite: None
Students find out what it takes to market a product or service in today's fast-paced business environment. They learn the fundamentals of marketing using real-world business examples. They learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management.

BUS075 Marketing 2 (BUS075 MARKET 2)

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: BUS065 Business Marketing 1
Students build on the skills and concepts learned in Marketing 1 to develop a basic understanding of marketing principles and techniques. The course encourages students to think like entrepreneurs and begin preparing for a career in business and marketing. By the end of the course, students will understand what it takes to start a small business venture.

BUS400 Project Management

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None
Students will explore fundamental project management principles. In this foundational overview of project management, topics covered include project initiation, planning, traditional plan-based methodologies, and tools/systems. Engaging discussions, assignments, and quizzes will enhance students' practical skills in leading successful projects.

BUS410 Business Communications 1 (BUS410 COMMUN 1)

CTE or ELA Credit
Dual Credit Eligible
Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None
No matter what career you're planning to pursue, excellent professional communication will be key to your success. Upgrade your abilities in speaking, listening, writing, using and reading body language, and communicating in teams and groups. Discover how to plan, create, and deliver business presentations and communicate through graphics. In no time, you'll be communicating with confidence, standing out from your peers, and impressing your employer.

BUS420 Business Communications 2 (BUS420 COMMUN 2)

CTE or ELA Credit
Dual Credit Eligible
Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: BUS410 Business Communications
You've learned your audience, found your voice, and can read the body's unspoken words. Now, it's time to limber up those fingers and learn the P's and Q's of communicating in a business setting. In this course, you're going to take the basic writing skills you've developed and revise them so you can take new approaches to planning, building, and distributing documents for a business audience. You'll continue to explore the essentials of writing while drafting new understandings of business documents, and then you'll learn to apply your business communication skills to job applications, interviews, and presentations. No matter what your career of choice, learning to effectively communicate will help your professionalism grow leaps and bounds. Let's get writing!

TCH047A Web Design 1 / (TCH07A WEB DESI)

CTE or Fine Arts Credit
Dual Credit Eligible
Course Length: One Semester, available both semesters
Prerequisite: Successful completion of first semester required for enrollment in second semester
Web Design is a CodeHS course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS and will create their own live homepages to serve as portfolios of their creations. By the end of this course, students will be able to explain how webpages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multipage websites. Students will learn the foundations of user interface design, rapid prototyping, and user testing, and will work together to create professional, mobile responsive websites. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example web pages to explore, and web design exercises in which students develop and publish their own web sites. Each lesson includes at least one formative short multiple-choice quiz. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit. **System Requirements**: Microsoft Windows XP, Windows Vista, or higher operating system; 300 MHz or faster processor; 512 MB of memory

(RAM); 64MB of video RAM; OpenGL graphics card with 16 MB RAM; 3-button mouse; 1024 X 768 monitor resolution with 16-bit color; at least 2 GB of available hard drive space. Please note that a Macintosh computer is NOT recommended for this course.

TCH110 Microsoft Word with Exam Prep (TCH110 MS WORD)

Industry Recognized Credential Available
Dual Credit Eligible
Course Length: One Semester
Prerequisite: None

This course is for students who wish to learn core skills in Microsoft Word and PowerPoint. Students work through real-world, hands-on projects to hone skills in formatting text, page layout, images, charts, and a vast variety of commonly used word processing and presentation tools. This course prepares students for the Microsoft Word 2019 Associate and Microsoft PowerPoint 2019 Associate certifications.

TCH220 Microsoft Excel with Exam Prep (TCH220 MS EXCEL)

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None

This course is for students who wish to learn core skills in Microsoft Excel. Students work through projects to hone skills in data entry and management, formula creation, email management and a vast variety of commonly used email, spreadsheet, and database tools. This course prepares students for the Microsoft Excel 2019 Associate certification.

TCH342A Python Programming (TCH342A PYTHON)

CTE or 3rd Year Math Credit

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None

Python Programming 1 is a CodeHS course that teaches the fundamentals of computer programming as well as some advanced features of the Python language. Students will develop an appreciation for how computers store and manipulate information by building simple console-based games. Once students have completed the Introduction to Python course, they will have learned material equivalent to a semester college introductory course in Computer Science and can program in Python. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours (about 4 days) of hands-on programming practice in total. Several units have free response questions that have students consider the applications of programming and incorporate examples from their own lives.

TCH342 Python Programming 2 (TCH342B PYTHON)

CTE or 3rd Year Math Credit

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: Python Programming 1

Once students have completed the Introduction to Python course, they will have learned material equivalent to a semester college introductory course in Computer Science and be able to program in Python. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours (about 4 days) of hands-on programming practice in total. Several units have free response questions that have students consider the applications of programming and incorporate examples from their own lives.

TCH323ADE3 Introduction to JAVA Programming

CTE

Industry Recognized Credential Available
Course Length: One Semester

Once students have completed the Introduction to Python course, they will have learned material equivalent to a semester college introductory course in Computer Science and be able to program in Python. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours of hands-on programming practice in total. Several units have free response questions that have students consider the applications of programming and incorporate examples from their own lives.

TCH325A and TCH325B Network+ with Exam Prep

Course Length: One Semester
Industry Recognized Credential Available

This course includes direct instruction content, labs, and exam preparation materials related to the CompTIA Network+ certification exam. This course includes direct instruction content, labs, and exam preparation materials related to the CompTIA Network+ certification exam.

TCH145 Data Science

Course Length: One Semester
Prerequisite: None
This course discusses the essential skills of data scientists which include data collection, analyzing data, and how to build statistical algorithms and models to represent meaningful insights and results.

TCH100 Foundations of Computer Science
Course Length: One Semester
Prerequisite: None
This is a CodeHS course fully aligned to the CSTA 3A standards. This course covers concepts in the CSTA framework including Algorithms & Programming, Data & Analysis, and Networks & the Internet.

SKILLED AND TECHNICAL SCIENCES

TCH076E2 3D Modeling 1
CTE/Art
Course Length: One Semester
Prerequisite: None
Heart valves, cars, cartoons, and buildings may not seem to have much in common, but they all share one spectacular attribute: all originated as a 3D model. 3D modeling has changed the way the world makes things, and in this course, you'll learn the basics to begin creating in 3D! You'll learn how different 3D models are built and how to practice using a variety of modeling methods. By the end of the course, you'll walk away with a portfolio of your ingenious modeling ideas. 3D modeling is an essential part of the modern world and soon, you'll be able to contribute yourself!

OTH131 Architectural Design 1
CTE/Art
Course Length: One Semester
Prerequisite: None
Industry Recognized Credential Available
The Architectural Design II course provides specific methodologies used within the field of architecture as well as creative ways to think about and solve design challenges. Students will complete work using AutoCAD software aligned with objectives on the Autodesk.

OTH233 Architectural Design 2
CTE/Art
Course Length: One Semester
Prerequisite: None
Industry Recognized Credential Available
The Architectural Design II course provides specific methodologies used within the field of architecture as well as creative ways to think about and solve design challenges. Students will complete work using AutoCAD software aligned with objectives on the Autodesk Certified User (CAD) Certification exam, including basic drawing skills, modifying objects, annotating drawings, using layouts and printing, and applying accurate skills in dimensioning and scale. In later modules, students will study the built environment by learning about pioneers of architecture and engineering, architectural and engineering design feats, and how architecture and design is and will continue to be influenced by innovative technology.

TCH410D Game Design in Unity 1 (TCH410 GAME DES)
CTE or 3rd Year Math Credit
Course Length: One Semester
Prerequisite: None
Industry Recognized Credential Available
This first semester course teaches students the fundamentals of game design by using Unity's game engine. By the end of this course, students will understand the design planning process, be knowledgeable of industry related careers, and be able to navigate the Unity environment in order to create their own 3D games. This course will prepare students for the second semester course of Game Design in Unity. Note: Student devices must be able to download and install the Unity platform (not compatible on Chromebooks).

TCH411D Game Design in Unity 2 (TCH411 GAME DES)
CTE or 3rd Year Math Credit
Industry Recognized Credential
Course Length: One Semester
Prerequisite: Game Design in Unity 1
Industry Recognized Credential Available

This second semester course teaches students the fundamentals of game design by using the Unity game engine. By the end of this course, students will gain a deeper understanding of the design planning process, add special effects, manipulate cameras, and set up character animations to enhance their own 3D games.

TCH310 Photoshop with Exam Prep (TCH310 MS PHOTO)

CTE or Fine Arts Credit

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None

The course covers the fundamentals of working in the design industry. It will familiarize students with the key terminology related to digital images, introduce them to the purpose, audience, and needs of preparing images, and teach them basic design principles and best practices. The course will also cover project setup and interface, document organization, creating and modifying visual elements, and publishing digital media. Students will be exposed to using layers, modifiable visibility, and nonprinting design tools; importing assets; managing colors, swatches, gradients, brushes, symbols, styles, and patterns, understanding destructive and nondestructive editing; and preparing images for export

TCH330 Illustrator with Exam Prep (TCH310 MS Illustrator)

CTE or Fine Arts Credit

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None

This course gives students comprehensive training in the fundamentals of design. Topics covered include identifying the purpose, audience, and audience needs for preparing images, communicating with colleagues and clients about design plans, understanding copyright and licensing, using design principles and best practices, setting up projects and utilizing the interface, managing colors, swatches, and gradients, organizing design elements, creating and manipulating visual elements, and preparing images for export to Web, print, and video.

TCH410 Premiere Pro with Exam Prep

CTE or Fine Arts Credit

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None

This course introduces students to Premiere Pro video editing software, helping them learn how to create projects and sequences, edit video and audio clips, add text, shapes, transitions, and effects, and use the Export feature. It covers topics such as identifying project requirements, the Premiere Pro interface, shooting, importing, and editing a sequence, titles, shapes, transitions, and export formats.

CAR022 Construction Explorations

Course Length: One Semester
Prerequisite: None

This course provides students with an introduction of the basic equipment used in the construction industry. Students learn about basic equipment operations and job responsibilities. This course prepares students to use concepts pertaining to safety, maintenance, mathematics and communication that Operating Engineers may experience.

MFG201 Construction Equipment (MFG201 CONS EQP)

Course Length: One Semester
Prerequisite: None

In the construction industry, the proper use of heavy equipment is necessary to ensure quality work and a safe work environment. In addition, being able to recognize and determine the use of specific heavy equipment will create a more efficient work team. Heavy equipment is used in almost any construction project from building a house to excavating a new road. In this course, students will be introduced to core equipment used by operating engineers and their maintenance needs. Communication processes used by operating engineers, rigging and signaling practices, and safety awareness and mathematic concepts related to the construction industry are also covered.

MFG202 Basic Maintenance of Mobile Equipment (MFG202 MOB EQUIP)

Course Length: One Semester
Prerequisite: None

In construction, heavy equipment plays a vital role in ensuring quality work and safety. Proficiency in using specific equipment boosts team efficiency, whether for building homes or roadwork. This course offers a deep dive into key equipment and maintenance, along with essential communication, rigging, safety, and construction-related math, preparing students for success in the industry.

MFG210A Supply Chain Management

Course Length: One Semester

Prerequisite: None

This course covers the essentials of supply chain management. As a Supply Chain Analyst, you'll learn how to make informed decisions across the entire supply chain. Topics include supply chain fundamentals, understanding partners, historical context, future trends, and the role of analytics. By the end of the course, you'll be equipped to contribute to efficient, secure, and sustainable supply chains.

GENERAL SCIENCE, TECHNOLOGY, ENGINEERING & MATH (STEM)

MFG010 Grade/Construction Math (MFG010 BGC MTH)

CTE or 3rd Year Math Credit

Course Length: One Semester

Prerequisite: None

In the construction industry, grading is the work of ensuring a level base, or a grade with a specific slope. Grade construction work is needed in almost any building project, from laying a building foundation, to landscaping, or even roadwork. In this course, you will be introduced to core equipment used in the staking process and Personal Protective Equipment (PPE) used in the construction industry. Communication processes used in the construction industry for interpreting and setting grade are also an important part of this course. Finally, you will learn mathematical concepts related to the construction industry for grade staking.

AGR200 Energy and Environmental Design

CTE or Science Credit

Course Length: One Semester

Prerequisite: None

This course introduces students to the LEED process. LEED, or Leadership in Energy and Environmental Design, is the global standard for green building certification. Throughout the course, students will gain an understanding of the various components of green building. The theme of sustainability and sustainable construction is woven throughout each module both in terms of physical environment and as it pertains to LEED certification.

TCH120 Engineering Design and Presentation

Course Length: One Semester

Prerequisite: None

This course will cover essential aspects of engineering design and communication. Students will explore the significance of computer-aided design and drawing in engineering, integrate ethical considerations and regulations into design scenarios, and develop professional behaviors. Students will learn effective communication of engineering findings and various methods of data collection and analysis. Students will engage in analyzing the engineering process, practice brainstorming and critical thinking, and create or improve products while maintaining detailed engineering documentation.

TCH130 Foundations of Engineering Science

Course Length: One Semester

Prerequisite: None

This course outlines the foundational skills and principles necessary for success in engineering. Students explore teamwork dynamics and leadership roles, progressing to understand mathematical concepts like algebra, geometry, statistics, and probability as they relate to engineering. Students gain hands-on experience in conducting experiments, analyzing data, and designing prototypes. Additionally, students explore fluid power systems, basic construction techniques, and emerging trends in the industry.

TCH160 Intro to Robotics 1 (TCH160 ROBOT 1)

CTE or Science Credit

Course Length: One Semester

Prerequisite: None

Industry Recognized Credential Available

Are you fascinated with how machines work? Robots are machines, and they are all around us, from helping doctors in surgeries to helping to keep our homes clean. Explore the physics, mechanics, motion, and the engineering design and construction aspects used to develop robots.

TCH162 Intro to Robotics 2 (TCH162 ROBOT 2)

CTE or Science Credit

Course Length: One Semester

Prerequisite: Introduction to Robotics 1

Industry Recognized Credential Available

The robots have invaded… and they're here to make our lives easier. You've learned about the basics of robotics and STEM careers, but now we're going to learn about manipulating the physical world to create desired effects. In this course, you'll learn to manipulate electrical signals to create logic and memory, how to quantify the physical world through variables, and how to have an impact through tools. You'll discover how to choose the best tools and materials, how to create AI, and how to take an idea from initial planning to a completed project. Let's continue the pursuit of a career in robotics so the friendly invasion can thrive!

TCH181 Introduction to Artificial Intelligence

Course Length: One Semester
Prerequisite: None
This course introduces artificial intelligence concepts. You will learn important basic skills including how to create predictive models. You will learn about the connection between AI in gaming and how AI is used in chatbots. You will also apply your knowledge to several projects.

TCH485 Foundations of AI Professionals

Course Length: One Semester
Industry Recognized Credential Available
This course aims to provide a thorough introduction to Artificial Intelligence (AI), covering fundamental concepts, applications, ethical issues, and career guidance in the field. The curriculum is designed to help students understand how AI technologies impact society and various industries. Explore key AI technologies like machine learning and neural networks and discuss the ethical considerations and career opportunities in AI.

FAMILY AND CONSUMER SCIENCES

OTH060 Family Consumer Science (OTH060 CONS SCI)

Course Length: One Semester
Prerequisite: None
This course focuses on the development of skills and knowledge that will help teenagers transition into adult roles within their family and their community. Students engage in activities to learn about managing money, entering the world of work, establishing a home and family, preparing nutritious meals, working as part of a team, and caring for the environment and their community. Students gain an appreciation for the work of the family and how they as individuals contribute to the well-being of their family and their community. The course features include games, videos, slideshow galleries and avatars.

OTH171 Culinary Arts 1 (OTH171 CULNRY 1)

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None
Thinking of a career in the food service industry or looking to develop your culinary skills? This introductory course will provide you with basic cooking and knife skills while preparing you for entry into the culinary world. Discover the history of food culture, food service, and global cuisines while learning about food science principles and preservation. Finally, prepare for your future by building the professional, communication, leadership, and teamwork skills that are critical to a career in the culinary arts.

OTH172 Culinary Arts 2 (OTH172 CULNRY 2)

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: OTH060 Culinary Arts 1
Did you know that baking is considered a science? Building on the prior prerequisite course, discover how to elevate your culinary skills through the creation of stocks, soups, sauces, and learn baking techniques. Examine sustainable food practices and the benefits of nutrition while maintaining taste, plating, and presentation to truly wow your guests. The last unit in this course explores careers in the culinary arts for ways to channel your newfound passion!

OTH161 Early Child Education 1 (OTH061 EC EDU 1)

Course Length: One Semester
Prerequisite: None
Industry Recognized Credential Available
Are you curious to see what it takes to educate and nurture early learners? Use your curiosity to explore the fundamentals of childcare, like nutrition and safety, but also the complex relationships caregivers have with parents and their children. Examine the various life stages of child development and the best educational practices to enrich their minds while thinking about a possible future as a childcare provider!

OTH162 Early Child Education 2 (OTH062 EC EDU 2)

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: OTH161 Early Childhood Education 1

Building on the previous prerequisite course, discover the joys of providing exceptional childcare and helping to develop future generations. Learn the importance of play and use it to build engaging educational activities that build literacy and math skills through each stage of childhood and special needs. Use this knowledge to develop your professional skills well suited to a career in childcare!

OTH190 Managing the Learning Environment

Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: OTH161 Early Childhood Education 1 or OTH200 Intro to Education

This course examines the philosophies of education, instructional strategies and practices, and the development of successful learning environments. This course covers assessments, diversity in the classroom, and the promotion of early language, literacy, and creativity. The first semester also includes an exploration of professional qualities and development. Students will complete and submit a final portfolio of their work, including a philosophy of education, lesson plans, and other useful materials based on the competency standards and functional areas of the Child Development Associate certification.

OTH200 Introduction to Education

Industry Recognized Credential Available
Course Length: One Semester

Throughout the course, students will explore career opportunities in education. They will learn what it means to be a professional in the classroom, whether it be working alongside co-teachers or managing an inclusive and diverse group of students. Students will learn about the code of conduct expected of educational professionals. Students will explore the history and best practices in teaching and professional development opportunities. They will discover what it means to emerge as leaders in the field.

OTH220 Education Technology

Course Length: One Semester
Prerequisite: None

This course equips aspiring educators with practical skills for modern classrooms. Topics include digital tools, pedagogical strategies, and an exploration of AI's role in education. Students gain insights into transformative technology use and engaging diverse learners through digital media.

OTH350 Food Handler Cert (OTH350 FOOD HND)

Industry Recognized Credential Available
Prerequisite: None
Course Length: One Semester

Do you dream of working in the food industry, dazzling guests' tastebuds with delectable dishes? Before you can deliver on your dreams, you first must know how to keep guests safe. In this course, you'll learn the ins and outs of the food industry, food preparation safety, and keeping workspaces and surfaces clean to prevent foodborne illness. You'll explore understanding and preventing pathogens from spreading to food and setting up a foodservice facility to maintain compliance. You'll also learn about the wide variety of job options and titles within the food industry. Let's get ready to learn the important safety measures that lead to your culinary dreams!

MULTIPLE PROGRAM AREAS

ORN200 Navigating Your Future (previously Achieving Your College and Career Goals)

Industry Recognized Credential Available
Prerequisite: None
Course Length: One Semester

This course provides students with the tools, guidance, and opportunity to create and follow a career path. Students will conduct a personal exploration to determine their strengths and identify potential career pathways that align with their individual capabilities and needs of the job market. Students will hone their skills in securing a career by exploring the variety and scope of available employment, how to access job information, learn job search techniques, how to complete job applications, creating a resume, interview preparation and the development of a career portfolio. Finally, students learn the importance of being responsible and productive employees by learning employability skills, workplace etiquette, conflict management, as well as valuable life skills.

ENGLISH

4.0 English Credits Required
Default Course Progression: English 9 > English 10 > American Literature > British & World Literature
Other English courses may complete the final 1.0 credit requirement. A full year of British & World Literature is recommended for students applying for 4-year college admission

ENG108 English 9 (ENG108A ENG 9 and ENG108B ENG 9)

Course Length: Two Semesters

The Summit English 9 course is an integrated course designed to align to state standards while engaging and motivating students. The course includes instruction about reading, writing, speaking, and listening, and language with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to Grade 9. Throughout the course, students practice narrative, informative, and argument writing. Students also will develop and deliver presentations and participate in discussions with their peers. The English 9 course includes an online, searchable database of skills-based content that can be used for reference or to review of all the concepts taught in the course. **Materials:** Summit Curriculum English 9–10: *Explorations in Literature, The Way to Rainy Mountain, The Alchemist, A Midsummer Night's Dream*

ENG109 Honors English 9 (ENG109A ENG 9 and ENG109A ENG 9)

Course Length: Two Semesters

Prerequisite: Success in Grade 8 Language Arts or Equivalent

This course challenges students to improve their written and oral communication skills, while strengthening their ability to understand and analyze literature in many genres. Students enrolled in this course work on independent projects that enhance their skills and challenge them to consider complex ideas and apply the knowledge they have learned. Literature: Students read a broad array of short stories, poetry, drama, novels, autobiographies, essays, and famous speeches. The course guides students in the close reading and critical analysis of classic works of literature and helps them appreciate the texts and the contexts in which the works were written. Literary selections range from the Greek tragedy Antigone to Shakespeare's Romeo and Juliet to contemporary pieces by authors such as Annie Dillard and Maya Angelou. Language Skills: Students broaden their composition skills by examining model essays in various genres by students and published writers. Through in-depth planning, organizing, drafting, revising, proofreading, and feedback, they hone their writing skills. Students build on their grammar, usage, and mechanics skills with in-depth study of sentence analysis and structure, agreement, and punctuation, reinforced by online activities. Student vocabularies are enhanced through the study of Greek and Latin root words. **Materials:** *Classics for Young Readers, Volume 8; Classics for Young Readers, Volume 8: An Audio Companion; BK English Language Handbook, Level 1; Vocabulary from Classical Roots, Book C; The Narrative of the Life of Frederick Douglass, An American Slave* by Frederick Douglass*; Anne Frank: Diary of a Young Girl* by Anne Frank*; Romeo and Juliet* by William Shakespeare

ENG208 English 10 (ENG208A ENG 10 and ENG208B ENG 10)

Course Length: Two Semesters

Prerequisite: English 9 or Equivalent

The English 10 course is an integrated course designed to align to state standards while engaging and motivating students. English 10 continues the study of reading, writing, speaking, and listening, and language begun in English 9. Students continue to interpret and analyze increasingly complex works of literature and nonfiction appropriate for Grade 10. Throughout the course, students build upon and use writing skills to develop increasingly sophisticated narrative, informative, and argument writing. Students also will develop and deliver presentations and participate in discussions with their peers. The English 10 course includes an online, searchable database of skills-based content that can be used for reference or to review of all the concepts taught in the course. **Materials:** *Anthology; Cry, the Beloved Country; Night; Macbeth*

ENG209 Honors English 10 (ENG209A ENG 10 and ENG209B ENG 10)

Course Length: Two Semesters

Prerequisite: Success in English 9 or equivalent

In this course, students build on existing literature and composition skills and move on to higher levels of sophistication. Students work on independent projects that enhance their skills and challenge them to consider complex ideas and apply the knowledge they have learned. Literature: Students hone their skills of literary analysis by reading short stories, poetry, drama, novels, and works of nonfiction, both classic and modern. Authors include W. B. Yeats, Sara Teasdale, Langston Hughes, Robert Frost, Edgar Allan Poe, Nathaniel Hawthorne, Kate Chopin, Amy Tan, Richard Rodriguez, and William Shakespeare. Students have a choice of novels and longer works to study, including works by Jane Austen, Charles Dickens, and Elie Wiesel. Language Skills: In this course, students become more proficient writers and readers. In composition lessons, students analyze model essays from readers' and writers' perspectives, focusing on ideas and content, structure and organization, style, word choice, and tone. **Materials:** *Explorations in Literature* 9-10; *Frankenstein; Night; Macbeth; Cry, the Beloved Country.* Students have opportunities to choose literature.

ENG303 American Literature (ENG303A AM LIT and ENG303B AM LIT)

Course Length: Two Semesters

Prerequisite: English 10 or Equivalent

In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests. **Materials:** *Journeys in Literature: American Traditions, Volume C; The Great Gatsby* by F. Scott Fitzgerald*; The Glass Menagerie* by Tennessee Williams

ENG304 Honors American Literature (ENG304A AM LIT and ENG304B AM LIT)

Course Length: Two Semesters

Prerequisite: Success in English 10 or Equivalent

In this course, students read and analyze works of American literature from Colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests. **Materials:** *Journeys in Literature: American Traditions, Volume C; The Great Gatsby* by F. Scott Fitzgerald*; The Glass Menagerie* by Tennessee Williams*.* Students will also read one selection of their choice from the following: *The Old Man and the Sea* by Ernest Hemingway*; The House on Mango Street* by Sandra Cisneros*; A Lesson Before Dying* by Ernest Gaines*; The Red Badge of Courage* by Stephen Crane*;* and two selections of their choice from the following: *Billy Budd* by Herman Melville*, A Connecticut Yankee in King Arthur's Court* by Mark Twain*; Catcher in the Rye* by J.D. Salinger*; Song of Solomon* by Toni Morrison

ENG403 British and World Literature (ENG403A BR/WRLD and ENG403B BR/WRLD)

Course Length: Two Semesters

Prerequisite: American Literature or Equivalent

Students read selections from British and World literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students complete guided and independent writing assignments that refine their analytical skills. They have opportunities for creative expression in projects of their choosing. Students also practice test-taking skills for standardized assessments in critical reading and writing. **Materials:** *Explorations: An Anthology of British and World Literature; Hamlet*

ENG404 Honors British and World Literature (ENG404A BR/WRLD and ENG404B BR/WRLD)

Course Length: Two Semesters

Prerequisite: Success in American Literature or Equivalent

Students read selections from British and World literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students work independently on many of their analyses and engage in creative collaboration with their peers. Students also practice test-taking skills for standardized assessments in critical reading and writing. **Materials:** *Explorations: An Anthology of British and World Literature; Hamlet*

ENG010 Journalism (ENG010 JOURNAL)

Course Length: One Semester

Prerequisite: Success in English 10 or concurrent enrollment in Honors English 10

Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles. Students conduct interviews, research, write, and design their own publications.

ENG030 Creative Writing (ENG030 CREAT WR)

11th & 12th Grade Only

Course Length: One Semester (repeatable for up to 1.0 credit)

Prerequisite: American Literature or Honors American Literature (may be taken concurrently)

Creative Writing focuses on the four-step Process Writing model and the reading of professional writings to motivate students to create original essays, poems, and short stories. The writing assignments include narration, definition, process analysis, cause and effect and comparison/contrast. Students learn self-editing skills by following the instructor's detailed suggestions for the revision and refinement of their work.

OTH036-DYN Gothic Literature (OTH036 GOTH LIT)

Course Length: One Semester

Prerequisite: None

Since the eighteenth century, Gothic tales have influenced fiction writers and fascinated readers. This course focuses on the major themes found in Gothic literature and demonstrates how the core writing drives a suspenseful environment for readers. It presents some of the recurring themes and elements found in the genre. As they complete the course, students gain an understanding of and an appreciation for the complex nature of Gothic literature. **Materials***: Dracula, Frankenstein, The Strange Case of Dr. Jekyll and Mr. Hyde*, a variety of short stories and poems with Gothic elements.

BUS410 Intro Business Communications (Comm) (BUS410 COMMUN 1)

ELA or CTE Credit
Dual Credit Eligible
Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None
No matter what career you're planning to pursue, excellent professional communication will be key to your success. Upgrade your abilities in speaking, listening, writing, using and reading body language, and communicating in teams and groups. Discover how to plan, create, and deliver business presentations and communicate through graphics. In no time, you'll be communicating with confidence, standing out from your peers, and impressing your employer.

BUS420 Business Communications (Comm) 2 (BUS420 COMMUN 2)

ELA or CTE Credit
Dual Credit Eligible
Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: BUS410 Business Communications 1
You've learned your audience, found your voice, and can read the body's unspoken words. Now, it's time to limber up those fingers and learn the P's and Q's of communicating in a business setting. In this course, you're going to take the basic writing skills you've developed and revise them so you can take new approaches to planning, building, and distributing documents for a business audience. You'll continue to explore the essentials of writing while drafting new understandings of business documents, and then you'll learn to apply your business communication skills to job applications, interviews, and presentations. No matter what your career of choice, learning to effectively communicate will help your professionalism grow leaps and bounds. Let's get writing!

HEALTH

0.5 Health Credits Required

OTH010 Skills for Health (OTH010 HEALTH)

10th, 11th & 12th Grade Only
Course Length: One Semester
Prerequisite: None
This course focuses on important skills and knowledge in nutrition; physical activity; the dangers of substance use and abuse; injury prevention and safety; growth and development; and personal health, environmental conservation, and community health resources. The curriculum is designed around topics and situations that engage student discussion and motivate students to analyze internal and external influences on their health-related decisions. The course helps students build the skills they need to protect, enhance, and promote their own health and the health of others.

HISTORY/SOCIAL STUDIES

3.0 History Credits Required

Default Course Progression: Modern World Studies, U.S. History, Civics

Washington State History, U.S. History and Civics are required courses for graduation

HST105 Washington (WA) State History (HST105 WA HIST)

Course Length: One Semester
Prerequisite: None
All students must take this course, unless they have already taken it in middle school. In this course, students will study the history of the state of Washington with a focus on its earliest inhabitants, development, environment, people, economics & government to understand the Pacific Northwest. Students will study these major areas to understand the complex background of Washington with the goal of having a sound foundation upon which to formulate opinions concerning what is happening now in our state. The course is organized chronologically and thematically with the unit titles below. Students' complete discussions, projects, and multiple-choice assessments to demonstrate their learning. The units of study include: 1. Territory & Treaty Making; 2. Railroads, Reform, Immigration & Labor; 3. Great Depression & World War II; 4. New Technologies & Industries; 5.

Contemporary Washington: Government; 6. Contemporary Washington: Economics & Personal Finance; and 7. Contemporary Washington: Industry & Trade. **Materials:** *The Washington Journey 2nd Edition* textbook & workbook

HST213 Geography (HST213A GEOGRAP and HST213B GEOGRAP)

Course Length: One Semester (repeatable for up to 1.0 credit)
Prerequisite: None

Summit Geography can be taken for a single semester or repeated for a full year. The course units are broken down by region/continent. Semester one focus: North America, Central America, South America, and Europe. Semester two focus: Asia, Africa, and Australia. Each semester uses geographic features to explore how human relationships, political and social structures, economics, science, technology, and the arts have developed and influenced life in countries around the world. Throughout the courses, students learn how to read maps, charts, and graphs rigorously and critically—and how to create them. Examining the intersection of culture and geography, students discover how a mountain in the distance can inspire national policymakers, civil engineers, or poets; how a river triggers the activity of bridge builders, shipbuilders, and merchants alike; and how the sound of a busy Cairo Street can inspire sociologists and musicians. Students come to understand how the drama of human history and cultural encounters—affecting land, natural resources, religious dominance, and more—is played out on the geographical stage

HST203 A/B Modern World Studies (HST204A MOD WRL / HST204B MOD WRL)

Course Length: Two Semesters
Prerequisite: None

In this comprehensive course, students follow the world's history from about 1870 to the present. They begin with a study of events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students examine both the staggering problems and astounding accomplishments of the twentieth century, with a focus on political and social history. Students also explore topics in physical and human geography and investigate issues of concern in the contemporary world. Online lessons help students organize study, explore topics, review in preparation for assessments, and practice sophisticated skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research. **Materials:** *The Human Odyssey, Volume 3*

HST204 A/B Honors Modern World Studies (HST204A MOD WRL)

Course Length: Two Semesters
Prerequisite: Success in a previous Social Studies course

In this advanced course, students investigate the history of the world from approximately 1870 to the present. They begin with an analysis of events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students examine the staggering problems and astounding accomplishments of the twentieth century, focusing on political and social history. Students also explore advanced topics in physical and human geography and investigate issues of concern in the contemporary world. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting research. Students complete independent projects each semester. **Materials:** *The Human Odyssey, Volume 3*

HST303 U.S. History (HST303A US HST)

Course Length: Two Semesters
Prerequisite: Modern World Studies

This course is a full-year survey that provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12's *The American Odyssey: A History of the United States.* Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research. **Materials:** *The American Odyssey: A History of the United States*

HST304 Honors U.S. History (HST303B US HST)

Course Length: Two Semesters
Prerequisites: Modern World Studies; Success in previous social studies course

This course is a challenging full-year survey that provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12's *The American Odyssey: A History of the United States*. Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice advanced skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research. Students complete independent projects each semester. **Materials:** *The American Odyssey: A History of the United States*

HST040 Civics (HST040 CIVICS)

12th Grade Only
Course Length: One Semester

Prerequisite: US History

Civics is the study of citizenship and government. This one-semester, 12th grade level, course provides students with a basic understanding of civic life, politics, and government, and a short history of government's foundation and development in this country. Students learn how power and responsibility are shared and limited by government, the impact American politics has on world affairs, the place of law in the American constitutional system, and which rights the American government guarantees its citizens. Students also examine how the world is organized politically and how civic participation in the American political system compares to that in other societies around the world today.

HST020 Psychology (HST020 PSYCH)

Course Length: One Semester

Prerequisite: None

In this course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics in this one-semester course include methods of study, biological basis for behavior, learning and memory, development and individual differences, and psychological disorders.

HST030 Economics

Course Length: One Semester

Prerequisite: US History

Students are introduced to the basics of economic principles, and they will learn the importance of understanding different economic systems. They will also investigate how to think like an economist. Students will explore different economic systems, including the American free enterprise system, and they will analyze and interpret data to understand the laws of supply and demand. Students will also be presented with economic applications in today's world. From economics in the world of business, money, banking, and finance, students will see how economics is applied both domestically and globally. Students will also study how the government is involved in establishing economic stability in the American free enterprise system as well as the how the U.S. economy has a global impact.

HST060-DYN Sociology I (HST060 SOCIOL 1)

Course Length: One Semester

Prerequisite: None

The world is becoming more complex. How do your beliefs, values, and behavior affect the people around you and the world in which you live? Students examine social problems in the increasingly connected world and learn how human relationships can strongly influence. Units of study include World of Sociology, Our Culture, Socialization, Social Structure & Group Behavior, Deviance & Crime, Social Stratification & Class, Inequalities of Race & Ethnicity, and Gender.

MATH

3.0 Math Credits Required
Default Course Progression: Algebra 1 > Geometry > Alternate Math Course **Minimum for 4-Year College Admission: Algebra 1 > Geometry > Algebra 2 > Pre-Calc/Trig** Algebra 1 and Geometry are required courses for graduation

MTH128 Algebra 1 (MTH128A ALG 1 and MTH128B ALG 1)

Course Length: Two Semesters

Prerequisite: None

Stride/K12's Algebra 1 course is designed to align to state standards while engaging and motivating students. This course's basic purpose is to extend the mathematics students learned in the middle grades. In some ways, this is a more ambitious version of Algebra I than before. The critical areas of study are linear and exponential relationships; applying linear models to data; and analyzing, solving, and using quadratic functions. **Materials:** *Summit Curriculum Algebra 1 Reference Guide*

MTH129 Honors Algebra 1 (MTH129A ALG 1 and MTH129B ALG 1)

Course Length: Two Semesters

Prerequisite: Success in previous math course

This course prepares students for more advanced courses while they develop algebraic fluency, learn the skills needed to solve equations, and perform manipulations with numbers, variables, equations, and inequalities. They also learn concepts central to the abstraction and generalization that algebra makes possible. Students learn to use number properties to simplify expressions or justify statements; describe sets with set notation

and find the union and intersection of sets; simplify and evaluate expressions involving variables, fractions, exponents, and radicals; work with integers, rational numbers, and irrational numbers; and graph and solve equations, inequalities, and systems of equations. They learn to determine whether a relation is a function and how to describe its domain and range; use factoring, formulas, and other techniques to solve quadratic and other polynomial equations; formulate and evaluate valid mathematical arguments using various types of reasoning; translate word problems into mathematical equations and then use the equations to solve the original problems. The course is expanded with more challenging assessments, optional exercises, and threaded discussions that allow students to explore and connect algebraic concepts. There are also independent honors projects each semester. **Materials:** *Algebra 1: Reference Guide and Problem Sets*

MTH208 Geometry (MTH208A GEOMETR and MTH208B GEOMETR)

Course Length: Two Semesters

Prerequisite: Algebra 1

This Summit Geometry course builds on the geometry covered in middle school to explore more complex geometric situations and deepen students' ability to explain geometric relationships, moving toward formal mathematical arguments. Specific topics include similarity and congruence, analytic geometry, circles, the Pythagorean theorem, right triangle trigonometry, analysis of three-dimensional objects, conic sections, and geometric modeling. **Materials:** *Geometry: A Reference Guide*

MTH209 Honors Geometry (MTH209A GEOMETR and MTH209B GEOMETR)

Course Length: Two Semesters

Prerequisite: Success in Algebra 1

Students work with advanced geometric concepts in various contexts. They build in-depth ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry. They also develop a sophisticated understanding of mathematical structure, method, and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; the use of transformations; and non-Euclidean geometries. Students work on additional challenging assignments, assessments, and research projects. **Materials:** *Geometry: A Reference Guide*

MTH308 Algebra 2 (MTH308A ALG 2 and MTH308B ALG 2)

Course Length: Two Semesters

Prerequisites: Algebra 1 and Geometry

In K12's Algebra 2 course, students build on their work with linear, quadratic, and exponential functions, and extend their repertoire to include polynomial, rational, radical, and trigonometric functions. Students also expand their ability to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The course covers sequences and series, probability distributions, and more advanced data analysis techniques. **Materials:** *Summit Curriculum Algebra 2 Reference Guide*

MTH309 Summit Honors Algebra 2 (MTH309A ALG 2 and MTH309B ALG 2)

Course Length: Two Semesters

Prerequisites: Success in Algebra 1 and Geometry

This course builds upon advanced algebraic concepts covered in Algebra I and prepares students for advanced-level courses. Students extend their knowledge and understanding by solving open-ended problems and thinking critically. Topics include functions and their graphs; quadratic functions; complex numbers, and advanced polynomial functions. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; probability; statistics; and conic sections. Students work on additional challenging assignments, assessments, and research projects. **Materials:** *Algebra 2: A Reference Guide*

MTH322 Summit Consumer Math (MTH322A CON MTH and MTH322B CON MTH)

Course Length: Two Semesters

Prerequisites: Algebra 1 and Geometry

This comprehensive review and study of arithmetic skills applies to both personal and vocational business opportunities. Topics include numbers, fractions, percentages, basic statistics, and graphs. Practical applications in finance, taxes, budgeting, banking, and home ownership are provided.

MTH403 Summit Pre-Calculus/Trigonometry (MTH403A Pre-Cal and MTH403B Pre-Cal)

Course Length: Two Semesters

Prerequisites: Algebra 1, Geometry, Algebra 2

Pre-calculus weaves together concepts of algebra and geometry into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include quadratic, exponential, logarithmic, radical, polynomial, and rational functions; matrices; and conic sections in the first semester. The second semester covers an introduction to infinite series, trigonometric ratios, functions, and equations; inverse trigonometric functions; applications of trigonometry, including vectors; polar equations and polar form of complex numbers; arithmetic of complex numbers; and parametric equations. Connections are made throughout the course to calculus and other mathematics fields. Purposeful concentration is placed on how the concepts covered relate to each other. Demonstrating the connection

between algebra and geometry concepts highlights the interwoven nature of the study of mathematics. **Suggested Materials:** Texas Instruments T1-84 Plus graphing calculator (not provided)

MTH413 Probability and Statistics

Course Length: Two Semesters
Prerequisites: Algebra 1, Geometry
In this high school math course, students learn counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression. Proficiency is measured through frequent online and offline assessments and asynchronous discussions. Problem-solving activities provide an opportunity for students to demonstrate their skills in real world situations.

MTH433 Calculus (MTH433A CALC and MTH433B CALC)

Course Length: Two Semesters
Prerequisites: Success Geometry, Algebra 2 and Pre-Calculus/Trigonometry
This course is the equivalent of an introductory college-level calculus course. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. Students learn to evaluate the soundness of proposed solutions and apply mathematical reasoning to real-world models. Students also learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students prepare for further studies in science, engineering, and mathematics. **Suggested Materials:** Texas Instruments T1-84 Plus graphing calculator (not provided)

MFG010 Grade/Construction Math (MFG010 BGC MTH)

Math or CTE Credit
Course Length: One Semester
Prerequisite: None
In the construction industry, grading is the work of ensuring a level base, or a grade with a specific slope. Grade construction work is needed in almost any building project, from laying a building foundation, to landscaping, or even roadwork. In this course, you will be introduced to core equipment used in the staking process and Personal Protective Equipment (PPE) used in the construction industry. Communication processes used in the construction industry for interpreting and setting grade are also an important part of this course. Finally, you will learn mathematical concepts related to the construction industry for grade staking.

BUS030 Basic Financial Literacy

CTE or Math Credit
Industry Recognized Credential Available
Course Length: Two Semesters
Prerequisite: None
This new course is designed for students in grades 9-12. In this semester-long course, students will explore their choices as producers, consumers, investors, and taxpayers. In addition, they will learn financial literacy skills emphasizing investments, markets, and taxation. Students will apply what they learn to real-world simulation problems.

TCH342A Python Programming (TCH342A PYTHON)

CTE or 3rd Year Math Credit
Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: None
Python Programming 1 is a CodeHS course that teaches the fundamentals of computer programming as well as some advanced features of the Python language. Students will develop an appreciation for how computers store and manipulate information by building simple console-based games. Once students have completed the Introduction to Python course, they will have learned material equivalent to a semester college introductory course in Computer Science and can program in Python. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours (about 4 days) of hands-on programming practice in total. Several units have free response questions that have students consider the applications of programming and incorporate examples from their own lives.

TCH342 Python Programming 2 (TCH342B PYTHON)

CTE or 3rd Year Math Credit
Industry Recognized Credential Available
Course Length: One Semester
Prerequisite: Python Programming 1
Once students have completed the Introduction to Python course, they will have learned material equivalent to a semester college introductory course in Computer Science and be able to program in Python. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours (about 4 days) of hands-on programming practice in total. Several units have free response questions that have students consider the applications of programming and incorporate examples from their own lives.

TCH410D Game Design in Unity 1 (TCH410 GAME DES)

CTE or 3rd Year Math Credit

Course Length: One Semester

Prerequisite: None

Industry Recognized Credential Available

This first semester course teaches students the fundamentals of game design by using Unity's game engine. By the end of this course, students will understand the design planning process, be knowledgeable of industry-related careers, and navigate the Unity environment to create their own 3D games. This course will prepare students for the second semester course of Game Design in Unity. Note: Student devices must be able to download and install the Unity platform (not compatible on Chromebooks).

TCH411D Game Design in Unity 2 (TCH411 GAME DES)

CTE or 3rd Year Math Credit

Industry Recognized Credential

Course Length: One Semester

Prerequisite: Game Design in Unity 1

Industry Recognized Credential Available

This second semester course teaches students the fundamentals of game design by using the Unity game engine. By the end of this course, students will gain a deeper understanding of the design planning process, add special effects, manipulate cameras, and set up character animations to enhance their own 3D games.

PHYSICAL EDUCATION

1.5 PE Credits Required

OTH021 Personal Fitness 1 (OTH021 FITNESS)

Course Length: One Semester

Prerequisite: None

In this course, high school students will study ways to get and stay fit through moderate and vigorous activities, sports, and recreation. They will study the components and benefits of fitness. Students will also study self-management, stress management, and lifestyle practices to achieve and maintain fitness. In addition to their reading lessons, students complete various activities, assignments, quizzes, and tests to assess their understanding of the content studied. **Materials:** *Fitness for Life*

OTH022 Personal Fitness 2 (OTH022 FITNESS)

Course Length: One Semester

Prerequisite: None

In this course, high school students will study ways to get and stay fit through moderate and vigorous activities, sports, and recreation. They will study the components and benefits of fitness. Students will also study self-management, stress management, and lifestyle practices to achieve and maintain fitness. In addition to their reading lessons, students complete various activities, assignments, quizzes, and tests to assess their understanding of the content studied. **Materials:** *Fitness for Life*

OTH020 Physical Education (OTH020A PE)

Course Length: One Semester

Prerequisite: None

The objective of this course is for students to become self-directed, engaged, and excited by physical activity. Students will understand SMART goals and create a project-based proposal that they will design and implement throughout the semester. Weekly reflection journals and Class Connect sessions will provide accountability and student-led feedback and problem-solving. The final project/presentation can be submitted via PowerPoint, video, presentation, blog, podcast, posters, brochures, pamphlets, or comprehensive written assignment. Weekly reflection journals will include answering project questions and requiring research, experiments, and interviews relevant to the student proposal. Students will need to consider equipment, certifications, ecological impact, community relations, budget, nutrition, safety and first aid, revisions to the project, problem-solving, and maintaining discipline and focus.

SCIENCE

3.0 Science Credits Required (2.0 in a Science Lab)
Default Course Progression: Physical Science > Biology > Chemistry/Other Science Course **Minimum 4-Year College Admission: Earth Science > Biology > Chemistry** **Suggested Highly Competitive College Admission: Earth Science > Biology > Chemistry > Physics** Two credits of lab science are required for graduation

SCI102A/B Physical Science (SCI102A PHY SCI and SCI102B PHY SCI)

Lab Credit: Yes
Course Length: Two Semesters
Prerequisite: None

Designed for students to become acclimated to the rigors of more advanced courses, students will explore physical science concepts of force, energy, work, power, waves, light and electricity. In the second semester, students will explore physical science concepts of matter, atomic structure, the periodic table, bonds, organic and macro molecules, reactions and balancing equations, and heat. Labs are assigned to expand content mastery and engage with science and engineering practices. Labs must be completed to pass the course. Honors designation is not possible in this class.

SCI113A/B Earth Science SCI113A EAR SCI and SCI113B EAR SCI)

Lab Credit: Yes
Course Length: Two Semesters
Prerequisite: None

Earth Science is a lab-based course with writing related coursework. This course provides students with a comprehensive earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of in-depth online lessons, an associated reference book, collaborative activities, and laboratories students can conduct at home. The course prepares students for further studies in geology, meteorology, oceanography, and astronomy courses, and gives them practical experience in implementing scientific methods. Honors designation is available in this class.

SCI203A/B Biology (SCI203A BIOLOGY and SCI203B BIOLOGY)

Lab Credit: Yes
Course Length: Two Semesters
Prerequisite: None

Biology is a lab and algebra-based course with writing related coursework. You will explore cells, genetics, structure and function of living things, ecology, and the theory of evolution. Also, students will complete labs using online and real-life simulations where they will be required to create lab reports and maintain interactive notebooks. Honors designation is available in this class.

SCI303A/B Chemistry (SCI303A CHEMIST and SCI303B CHEMIST)

Lab Credit: Yes
Course Length: Two Semesters
Prerequisite: 1.0 high school-level lab science credit, and successful completion of Algebra I

Chemistry is a lab and algebra based physical science course with many math-related problems. You will learn about chemicals that are part of your everyday life, explore the uses of the periodic table, and explore various chemical reactions. Additionally, students will complete analytical labs where algebraic skills and lab reports will be required. This class is strongly recommended if the student desires to pursue college immediately after high school with a science major or minor. Honors designation is available in this class.

SCI330A/B Anatomy and Physiology (SCI330A ANATOMY and SCI330B ANATOMY)

Science or CTE Credit
Lab Credit: Yes
Course Length: Two Semesters
Prerequisite: Success in previous high school science course
Industry Recognized Credential Available

These courses provide a thorough introduction to the basics required for studying the human body. Students receive a general introduction to life functions, the terminology, and phonetic pronunciations used to describe body parts and their locations, and an overall review of human development, body processes and system functions. This course also includes infection control and standard precautions, which emphasizes the importance of maintaining health and safety in the health-care work environment and highlighting the latest practices and protocols.

SCI403A/B Physics (SCI403A PHYSICS and SCI403B PHYSICS)

Lab Credit: Yes
Course Length: Two Semesters
Prerequisite: Algebra II (cannot be taken concurrently; trigonometry skills are required)

Physics is a lab and algebra based physical science course with many math-related problems. This course is designed to explore the fundamental concepts of classical and modern physics as applied to the real world. This course will require extensive study and time put in outside of the classroom. Physics is an intensive algebra course with portions of right triangle trigonometry and requires lab reports. This class is strongly recommended if the student desires to pursue college immediately after high school with a science major or minor. Honors designation available in this course.

SCI010 Environmental Science (SCI010 ENVI SCI)

10th, 11th and 12th grade only
Lab Credit: Yes
Course Length: One Semester
Prerequisite: Success in a previous high school science course

Environmental Science is a lab-based life science class with writing related coursework. The student will learn earth dynamics, biotic and abiotic environmental factors, energy production technologies, biodiversity with emphasis on the real-world relationship between biology, geology, and chemical energy cycles. This program consists of online instruction and related assessments along with labs via online and real-life simulations that require the completion of a lab report. Honors designation is available in this class. This course can be counted toward CTE or Science credit.

SCI030 Forensic Science (SCI030 FOR SCI)

10th, 11th and 12th Grade Only
Lab Credit: Yes
Course Length: One Semester
Prerequisite: Success in a previous high school science course

This course focuses on the application of scientific processes and tools in solving crimes. This course will teach students the application of scientific process for forensic analysis, procedures and principles of crime scene investigations, surveys of physical and trace evidence, the law and courtroom procedures from the point of view of the forensic scientist, trace evidence autopsies, and other aspects of crime investigation.

AGR200 Energy and Environmental Design

CTE or Science Credit
Course Length: One Semester
Prerequisite: None

This course introduces students to the LEED process. LEED, or Leadership in Energy and Environmental Design, is the global standard for green building certification. Throughout the course, students will gain an understanding of the various components of green building. The theme of sustainability and sustainable construction is woven throughout each module both in terms of physical environment and as it pertains to LEED certification.

OTH033 Veterinary Science (OTH033 VET SCI)

10th, 11th & 12th Grades
Lab Credit: No
Course Length: One Semester
Prerequisite: Success in a previous high school science course

As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Looking at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course examines some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases affect the animals around us and at times, us humans! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.

OTH092 Health Sciences 1 (OTH092 HLTSCI 1)

CTE Credit
Course Length: One Semester
Prerequisite: None
Industry Recognized Credential Available

Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and measles identified and diagnosed? Health sciences provide the answers to questions such as these. This course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

OTH094 Health Sciences 2 (OTH094 HLTSCI 2)

CTE Credit

Course Length: One Semester
Prerequisite: OTH092 Health Sciences 1
Industry Recognized Credential Available

Challenging. Variable. Rewarding. These three words can be used to describe many careers in the health sciences. In this course, you will learn more about what it takes to be a successful health science professional, including how to communicate with patients. You'll explore the rights and responsibilities of both patients and health science professionals in patient care and learn more about how to promote wellness among patients and health care staff. Finally, you'll learn more about safety in health science settings and the challenges and procedures of emergency care, infection control, and blood-borne pathogens.

HLT041 and HLT042: Biotechnology 1 and 2 (HLT041 BIOTECH and HLT042 BIOTECH)

Science or CTE Credit

Industry Recognized Credential
Lab Credit: Yes
Course Length: Two Semesters
Prerequisite: None

Biotechnology is a lab and algebra-based course. In this course you will learn the basics of biotechnology and evolutionary theory, explore the various ways we store and preserve food, discover the process of fermentation and microbiology, breeding plants and hybridization. You will also learn how biotech seeks to cure such deadly diseases as cancer and malaria, develop innovative medicine, and effectively feed the world through improved agricultural systems. Learn about the challenges biotechnology faces today, such as the growth of antibiotic resistant bacteria and questions about the safety of commercially produced genetically modified organisms (GMOs) and new biotechnologies.

TCH160 Intro to Robotics 1 (TCH160 ROBOT 1)

CTE or Science Credit

Course Length: One Semester
Prerequisite: None
Industry Recognized Credential Available

Are you fascinated with how machines work? Robots are machines, and they are all around us, from helping doctors in surgeries to helping to keep our homes clean. Explore the physics, mechanics, motion, and the engineering design and construction aspects used to develop robots.

TCH162 Intro to Robotics 2 (TCH162 ROBOT 2)

CTE or Science Credit

Course Length: One Semester
Prerequisite: Introduction to Robotics 1

The robots have invaded… and they're here to make our lives easier. You've learned about the basics of robotics and STEM careers, but now we're going to learn about manipulating the physical world to create desired effects. In this course, you'll learn to manipulate electrical signals to create logic and memory, how to quantify the physical world through variables, and how to have an impact through tools. You'll discover how to choose the best tools and materials, how to create AI, and how to take an idea from initial planning to a completed project. Let's continue the pursuit of a career in robotics so the friendly invasion can thrive!

WORLD LANGUAGES

2.0 Credits Required for 4-Year College Admission
WAVA High School's global world language courses are highly academic electives. Though global language credit is not a graduation requirement, most four-year universities will require a minimum of two years of the same global world language for admission. Currently WAVA does not offer 'competency-based credit' for non-native English speakers. Students may earn global language credit at their local resident school if it is offered. More information can be found here.

WLG100A/B Spanish 1 (WLG100A SPANISH and WLG100B SPANISH)

Course Length: Two Semesters
Prerequisite: Students must pass the first semester class to enroll in the second semester

Students begin their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. Vocabulary and grammar topics are introduced in an ongoing adventure story that prompts students to use skills from all four language learning areas. Students learn fundamental grammar embedded in authentic spoken language. Cultural

information covers major Spanish-speaking areas in Europe and the Americas. All-new graphics, videos, and games keep students engaged, and make learning languages exciting. **Materials:** Vox Everyday Spanish and English Dictionary

WLG200A/B Spanish 2 (WLG200A SPANISH and WLG200B SPANISH)

Course Length: Two Semesters

Prerequisite: Spanish 1; Students must pass the first semester class to enroll in the second semester

In this continuing introduction to Spanish, students deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then to reproduce new vocabulary in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in Spanish I, students learn grammar through supplemental texts that supply traditional charts, tables, and explanations. Cultural information addresses Spanish as it is used around the globe. All-new graphics, videos, and games keep students engaged, and make learning languages exciting. **Materials:** Vox Everyday Spanish and English Dictionary

WLG300A/B Spanish 3 (WLG300A SPANISH and WLG300B SPANISH)

Course Length: Two Semesters

Prerequisite: Spanish 2; Students must pass the first semester class to enroll in the second semester

Students further deepen their understanding of Spanish by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, read and analyze important pieces of Hispanic literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in Spanish. **Materials**: A speaker and microphone are necessary (a headset combination is recommended); Vox Everyday Spanish and English Dictionary or equivalent is recommended.