

<b>Course Catalog</b> <b>Grades 9-12</b> <b>2021-2022</b>	<b>GRADE</b>	<i>Disclaimer: DCA course offerings are subject to student interest and staffing. WIVA will make every effort to meet individual student course requests but some courses may not be available.</i> <b>** Availability is based on enrollment and ability to staff course.</b>
		<b>(O) = online book(s) included</b> <b>All courses, unless otherwise noted, are two SEMs.</b> <b>V= Virtual Lab (no materials)</b> <b>College Course = **</b>

## ENGLISH

ENG103 Readers Writers Workshop 9	9	Daily attendance required.
ENG108: Summit English 9	9	
ENG203 Readers Writers Workshop 10	10	Daily attendance required.
ENG208: Summit English 10	10	
ENG303: Summit American Literature	11	
ENG304: College Reading	12	Semester I. <b>Dual Credit Course with Madison College</b>
ENG305: College Writing	12	Semester II. <b>Dual Credit Course with Madison College</b>
ENG403: Summit British and World Literature (O)	12	College/Tech Prep Course
ENG510: AP English Literature & Composition **	11/12	K12 instructor. Advanced Placement – College Level.

## SOCIAL SCIENCES

HST030: Summit Economics	10-12	Semester II
HST103AB: Fundamentals of Summit World History	9	One Year Course. Designed for intensive instructional support.

HST103: Summit World History (O)	9	
HST303BB: Fundamentals of Summit US History	10	Two Year Course. Designed for intensive instructional support.
HST303: Summit U.S. History (O)	10	
HST304: Summit Honors US History (O)	10	
HST500: AP® U.S. History **	11/12	K12 Instructed/Independent. Advanced Placement – College Level
HST510: AP® US Government & Politics **	11/12	K12 Instructed/Independent. Advanced Placement – College Level
HST520: AP® Macroeconomics **	11/12	Semester I. K12 Instructed/Independent. Advanced Placement – College Level
HST530: AP® Microeconomics **	11/12	Semester II. K12 Instructed/Independent. Advanced Placement – College Level
HST540: AP® Psychology **	11/12	Semester II. Advanced Placement – College Level
HST560: AP® World History: Modern **	11/12	K12 Instructed/ Independent. Advanced Placement – College Level
HST020: Summit Psychology	11/12	Semester I or Semester II
HST040: Civics	11/12	Semester I or Semester II
HST060: Sociology I	11/12	Semester I
<a href="#">HST061: Sociology II</a>	11/12	Semester II
HST213: Summit Geography A	11/12	Semester I
HST213: Summit Geography B	11/12	Semester II

## MATH

MTH001: Math Foundations I	9-12	Remediation Only. Counselor permission required.
MTH107: Summit Developmental Algebra (O)	9/10	Year 1 of Algebra I.
MTH113: Summit Pre-Algebra (O)	9	
MTH128: Summit Algebra I (O)	9	
MTH207: Summit Continuing Algebra I (O)	10	Year 2 of Algebra I.
MTH208AB: Fundamentals of Summit Geometry	10	
MTH208: Summit Geometry (O)	10	
MTH307: Summit Practical Math (O)	11/12	
MTH308: Summit Algebra II (O)	11/12	Recommended for all students 2-4 year college.
MTH322: Consumer Math	11/12	
MTH403: Summit Pre-Calculus/Trigonometry	11/12	College/Tech Prep Course
MTH500: AP <sup>®</sup> Calculus AB	11/12	Advanced Placement – College Level.
MTH510: AP <sup>®</sup> Statistics	11/12	K12 Instructed Course/Independent. Advanced Placement – College Level.

## SCIENCE

SCI102: Summit Physical Science (V) (O)	9	Semester I and Semester II
SCI203: Summit Biology (V) (O)	10	Semester I and Semester II
SCI113: Summit Earth Science (V) (O)	11/12	Semester I and Semester II

SCI303: Summit Chemistry (V) (O)	11/12	College/Tech Prep Course
SCI010: Summit Environmental Science	11/12	Semester I or Semester II
SCI321: Summit Anatomy & Physiology 1	11/12	Semester I
SCI322: Summit Anatomy & Physiology 2	11/12	Semester II
SCI403: Summit Physics (V) (O)	11/12	College/Tech Prep Course
SCI500: AP®Biology	11/12	K12 Instructed Course/Independent. Advanced Placement – College Level.
SCI510: AP® Chemistry	11/12	K12 Instructed Course/Independent. Advanced Placement – College Level.
SCI530: AP® Environmental Science	11/12	K12 Instructed Course/Independent. Advanced Placement – College Level.
OTH033: Veterinary Science	9-12	Semester I or Semester II
OTH221: Engineering Fundamentals 1	9-12	Semester I
OTH222: Engineering Fundamentals 2	9-12	Semester II
<b>WORLD LANGUAGES</b>		
WLG100: Spanish I	9-12	
WLG200: Spanish II	9-12	Spanish II First Year
WLG300: Spanish III	9-12	Spanish II Second Year
WLG400: Spanish IV	9-12	
WLG500: AP Spanish Language and Culture**	11/12	K12 Instructed/ Independent. Advanced Placement – College Level

WLG110: French I	9-12	
WLG210: French II	9-12	
WLG310: French III	9-12	K12 Instructed/ Independent.
WLG510: AP French Language**	11/12	K12 Instructed/ Independent. Advanced Placement – College Level
WLG120: German I	9-12	
WLG220: German II	9-12	
<b>ELECTIVES &amp; ADDITIONAL COURSES</b>		
OTH010: Summit Skills for Health	9-12	Required for graduation. Semester I or Semester II
OTH020: Summit Physical Education	9-12	Required for graduation. Semester I or Semester II
OTH035: Early Childhood Education	9-12	Semester II
OTH040: College Success	11/12	Semester II
OTH070: Driver's Safety	10-12	Semester II. Does not include behind the wheel. State Certified. Taken through CESA 2 for \$50 fee. Limit 25 students.
OTH080: Summit Nutrition & Wellness	9-12	Semester II
OTH120: AVID I	9/10	
OTH171: Culinary Arts 1	9-12	Semester I
OTH172: Culinary Arts 2	9-12	<b>NEW!!</b> Semester II
OTH181: Fashion Design	9-12	Semester I

OTH182: Interior Design	9-12	Semester II
TCH047 Web Design I	9-12	<b>NEW!!</b> Semester I
TCH048: Web Design II	9-12	<b>NEW!!</b> Semester II
TCH105: Computer Literacy	9-12	Semester I
TCH114: Microsoft Office 1	10-12	Semester I. <b>Dual Credit Course with Madison College.</b>
TCH115: Microsoft Office 2	10-12	Semester II. <b>Dual Credit Course with Madison College.</b>

## BUSINESS PATHWAY

BUS031: Personal Finance	10-12	Semester I
BUS065: Marketing I	11/12	Semester I. <b>Dual Credit Course with Madison College.</b>
BUS075: Marketing II	11/12	Semester II. <b>Dual Credit Course with Madison College.</b>
BUS113: Accounting I	11/12	Semester I. <b>Dual Credit Course with Madison College.</b>
BUS114: Accounting II	11/12	Semester II. <b>Dual Credit Course with Madison College.</b>
BUS130: Intro to Business Management	11/12	Semester II. Project Based Learning Course
CAR017: Business and Marketing Explorations	9-12	Semester I. Project Based Learning Course
HST030: Summit Economics	10-12	Semester II
TCH047: Web Design 1	9-12	<b>NEW!!</b> Semester I
TCH048: Web Design 2	9-12	<b>NEW!!</b> Semester II

TCH105: Computer Literacy	9-12	Semester I
TCH114: Microsoft Office 1	10-12	Semester I. <b>Dual Credit Course with Madison College.</b>
TCH115: Microsoft Office 2	10-12	Semester II. <b>Dual Credit Course with Madison College.</b>

## IT Pathway

CAR095: IT Explorations	9-12	Semester I. Project Based Learning Course
COM110: Interpersonal Communication	10-12	<b>NEW!!</b> Semester II. Project Based Learning Course
TCH047: Web Design 1	9-12	<b>NEW!!</b> Semester I
TCH048: Web Design 2	9-12	<b>NEW!!</b> Semester II
TCH073: Video Game Design 1	9-12	Semester I
TCH074: Video Game Design 2	9-12	Semester II
TCH114: Microsoft Office 1	10-12	Semester I. <b>Dual Credit Course with Madison College.</b>
TCH115: Microsoft Office 2	10-12	Semester II. <b>Dual Credit Course with Madison College.</b>
TCH211: Programming, Logic and Design	11/12	Semester II
TCH220: Computer Science Principles	10-12	Semester II. Project Based Learning Course
TCH321: Introduction to Java Programming I	11/12	Semester I
TCH322: Introduction to Java Programming II	11/12	Semester II
TCH553: Cyber Security	10-12	Semester 1

## HEALTHCARE PATHWAY

CAR019: Healthcare Explorations	9-12	Semester II
HLT212: Medical Terminology 1	10-12	Semester II.
HLT230: Intro to Human and Social Services		<b>NEW!!</b> Semester II
HLT511: Nursing Assistant with Exam Prep 1	12	Semester I
OTH080: Nutrition and Wellness	9-12	Semester I
OTH092: Health Science I	9-12	Semester I
SCI321: Anatomy & Physiology I	11/12	Semester I
SCI322: Anatomy & Physiology II	11/12	Semester II
TCH105: Computer Literacy	9-12	Semester I
TCH114: Microsoft Office 1	10-12	Semester I. <b>Dual Credit Course with Madison College.</b>
TCH115: Microsoft Office 2	10-12	Semester II. <b>Dual Credit Course with Madison College.</b>
CNA Technical School Coursework/Certification	11/12	Placement at local technical school for certification coursework. Talk with your counselor!

## CONSTRUCTION PATHWAY

CAR021: Construction Explorations	9-12	Semester I & II
MFG010: Basic Grade and Construction Math	9-12	Semester II
MFG201: Basic Construction Equipment Fundamentals	9-12	Semester I
MFG202: Basic Maintenance of Mobile Equipment	9-12	Semester I



OTH221: Engineering Fundamentals 1	9-12	Semester I
OTH222: Engineering Fundamentals 2	9-12	Semester II
OTH240: CDL Preparation	12	Semester !!
SCI113: Summit Earth Science (V) (O)	11/12	Semester I and II
TCH105: Computer Literacy	9-12	Semester II
TCH114: Microsoft Office 1	10-12	Semester I. <b>Dual Credit Course with Madison College.</b>
TCH115: Microsoft Office 2	10-12	Semester II. <b>Dual Credit Course with Madison College.</b>
<b>Law, Public Safety and Security</b>		
COM110: Interpersonal Communication	10-12	<b>NEW!!</b> Semester II. Project Based Learning Course
HLT230: Intro to Human and Social Services		<b>NEW!!</b> Semester II
HST020: Summit Psychology		Semester I or II
HST060: Sociology I		Semester I
HST061: Sociology II		Semester II
LAW111: Careers in Criminal Justice		<b>NEW!!</b> Semester I
OTH039: Criminology		Semester II
OTH091: Law and Order		<b>NEW!!</b> Semester I
TCH105: Computer Literacy	9-12	Semester I
TCH114: Microsoft Office 1	10-12	Semester I. <b>Dual Credit Course with Madison College.</b>

TCH115: Microsoft Office 2	10-12	Semester II. Dual Credit Course with Madison College.
TCH220: Computer Science	9-12	Semester II. Project Based Learning Course
TCH553: Cyber Security		NEW!! Semester I
Interpersonal Communication		NEW!! Semester II

## High School Courses (9–12)

---

### ENGLISH

#### ENG103 Readers Writers Workshop 9

**Course Description:** This 9<sup>th</sup> grade course is highly supported and primarily synchronous in nature. It is designed to transition students into high school English, fostering growth and confidence. Using a modified workshop model, primarily focused on multicultural literature, students will learn to confidently analyze various literary genres and types of informational texts independently. Through the exploration of mentor texts and independent practice, students will grow into confident writers and communicators. With purposeful scaffolding, readers and writers in this course will work towards growth in reading, writing, and communication skills to support future learning in language arts.

**Course Length:** Two Semesters

#### ENG108: Summit English 9

**Course Description:** This Summit English 9 course includes engaging and interactive 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, informational, and argument writing. Students also develop and deliver presentations and participate in discussions with their peers.

**Course Length:** Two Semesters

**Materials:** Anthology (name TBD), The Way to Rainy Mountain, The Alchemist, A Midsummer Night's Dream

#### ENG203 Readers Writers Workshop 10

**Course Description:** This 10<sup>th</sup> grade course builds upon English 9 Reading and Writing Workshop. It is highly supported and primarily synchronous in nature. It is designed to foster growth and confidence, preparing students for success in 11<sup>th</sup> grade courses. Using a modified workshop model, primarily focused on American literature, students will learn to confidently analyze various literary genres and types of informational texts independently. Through the exploration of mentor texts and independent practice, students will continue to build confidence in their writing and overall ability to communicate effectively. With purposeful scaffolding, readers and writers in this

course will work towards growth in reading, writing, and communication skills that will create a strong foundation to continue working towards post-secondary goals.

**Course Length:** Two Semesters

### **ENG208: Summit English 10**

**Course Description:** The Summit English 10 course includes engaging and interactive 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 10. Throughout the course, students practice narrative, informational, and argument writing. Students also develop and deliver presentations and participate in discussions with their peers.

**Course Length:** Two Semesters

**Materials:** Anthology (name TBD), Cry, the Beloved Country, Night, Macbeth

### **ENG303: Summit American Literature**

**Recommended Grade Level:** 11

**Course Description:** 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.

**Course Length:** Two Semesters

**Prerequisites:** English 9 and English 10 (or equivalent)

### **ENG304 College Reading – Dual Credit Course with Madison College**

**Recommended Grade Level:** 12

**Course Description:** This course focuses on enhancing college reading and study techniques and offers students extended practice in applying these strategies to a variety of college level materials. Emphasis will be given to developing the critical thinking and reading skills necessary to be successful college readers. Topics covered will include identifying main ideas and supporting details, highlighting and annotating text, summary writing and making inferences.

**Course Length:** One Semester

**Notes:** Dual Credit can be earned through Madison College for 3 credits if final grade is C or above.

### **ENG305 College Writing – Dual Credit Course with Madison College**

**Recommended Grade Level:** 12

**Course Description:** Introduction to College Writing, while assuming competence in basic paragraph and essay structure, reinforces principles of composition that employ critical thinking in reading and writing and develops students' grammatical competence and writing style. Through multiple revisions and workshops, students acquire writing process awareness, self-advocacy skills for understanding and managing assignments, and information literacy skills to prepare them for college writing.

**Course Length:** One Semester

**Notes:** Dual Credit can be earned through Madison College for 3 credits if final grade is C or above.

### **ENG403: Summit British and World Literature**

**Recommended Grade Level:** 12

**Course Description:** 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 choice. Students also practice test-taking skills for standardized assessments in critical reading and writing.

**Course Length:** Two Semesters

#### **ENG510: AP<sup>®</sup> English Literature & Composition**

**Course Description:** In this course, the equivalent of an introductory college-level survey class, students are immersed in novels, plays, poems, and short stories from various periods. Students read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and discussions. The course places special emphasis on reading comprehension, structural and critical analyses of written works, literary vocabulary, and recognizing and understanding literary devices. Students prepare for the AP Exam and for further study in creative writing, communications, journalism, literature, and composition.

**Course Length:** Two semesters

**Prerequisites:** Success in previous English courses, and teacher/school counselor recommendation

---

## **HISTORY AND SOCIAL SCIENCES**

#### **HST030: Summit Economics**

**Course Description:** 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.

**Course Length:** One Semester

#### **HST103B: Fundamentals of Summit World History**

**Course Description:** In this a slow-paced survey of world history from prehistoric to modern times, students focus in depth on the developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement *World History: Our Human Story*, a textbook written and published by K<sup>12</sup>. Students are challenged to consider topics in depth as they analyze primary sources and maps, create timelines, and complete other projects—practicing historical thinking and writing skills as they explore the broad themes and big ideas of human history.

**Course Length:** Two Semesters

#### **HST103: Summit World History**

**Course Description:** In this comprehensive survey of world history from prehistoric to modern times, students focus in depth on the developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement *World History: Our Human Story*, a textbook written and published by K<sup>12</sup>. Students are challenged to consider topics in depth as they analyze primary sources and maps, create timelines, and complete other projects—practicing historical thinking and writing skills as they explore the broad themes and big ideas of human history.

**Course Length:** Two Semesters

### **HST303B: Fundamentals of Summit U.S. History**

**Course Description:** This course provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. 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 written assignments, and conducting independent research. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Four Semesters

**Prerequisites:** HST103: World History (or equivalents)

### **HST303: Summit U.S. History**

**Course Description:** This course is a full-year survey that provides students with a 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, 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.

**Course Length:** Two Semesters

**Prerequisites:** HST103: World History (or equivalents)

### **HST304: Summit Honors U.S. History**

**Course Description:** 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.

**Course Length:** Two Semesters

**Prerequisites:** HST103 World History, and teacher/school counselor recommendation

### **HST500: AP<sup>®</sup> U.S. History**

**Course Description:** Students explore and analyze the economic, political, and social transformation of the United States since the time of the first European encounters. Students are asked to master not only the wide array of factual information necessary to do well on the AP exam, but also to practice skills of critical analysis of historical

information and documents. Students read primary and secondary source materials and analyze problems presented by historians to gain insight into challenges of interpretation and the ways in which historical events have shaped American society and culture. The content aligns to the sequence of topics recommended by the College Board and to widely used textbooks. Students prepare for the AP exam.

**Course Length:** Two semesters

**Materials:** *America: A Narrative History*, 9th ed. George Tindall and David E. Shi (W.W. Norton, 2013)

**Prerequisites:** Success in previous history course and teacher/school counselor recommendation

### **HST510: AP<sup>®</sup> U.S. Government and Politics**

**Course Description:** This course is the equivalent of an introductory college-level course. Students explore the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students gain the analytical perspective necessary to evaluate political data, hypotheses, concepts, opinions, and processes and learn how to gather data about political behavior and develop their own theoretical analysis of American politics. Students also build the skills they need to examine general propositions about government and politics, and to analyze specific relationships between political, social, and economic institutions. Students prepare for the AP exam and for further study in political science, law, education, business, and history.

**Course Length:** One Semester

**Prerequisites:** Success in Honors U.S. History (or equivalent) and teacher/school counselor recommendation

### **HST520: AP<sup>®</sup> Macroeconomics**

**Course Description:** This course is the equivalent of an introductory college-level course. Students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. Students also examine how individuals and institutions are influenced by employment rates, government spending, inflation, taxes, and production. Students prepare for the AP exam and for further study in business, political science, and history.

**Course Length:** One Semester

**Prerequisites:** Success in: Algebra II (or equivalent) and teacher/school counselor recommendation

### **HST530: AP<sup>®</sup> Microeconomics**

**Course Description:** This course is the equivalent of an introductory college-level course. Students explore the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students learn why the same product can cost different amounts at different stores, in different cities, and at different times. Students also learn to spot patterns in economic behavior and learn how to use those patterns to explain buyer and seller behavior under various conditions. Lessons promote an understanding of the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in the economy. Students prepare for the AP exam and for further study in business, history, and political science.

**Course Length:** One Semester

**Prerequisites:** Success in Algebra II (or equivalent) and teacher/school counselor recommendation

### **HST540: AP<sup>®</sup> Psychology**

**Course Description:** This course is the equivalent of an introductory college-level course. Students receive an overview of current psychological research methods and theories. They explore the therapies used by professional counselors and clinical psychologists, and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They study core psychological concepts, such as the brain and sensory functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Students prepare for the AP Exam and for further studies in psychology and life sciences.

**Course Length:** One Semester

**Prerequisites:** Teacher/school counselor recommendation

### **HST560: AP® World History: Modern**

**Course Description:** AP® World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. This AP® World History course is designed to be equivalent of an introductory college or university-level survey of modern world history.

**Course Length:** Two Semesters

**Prerequisites:** Success in previous history course and teacher/school counselor recommendation

### **HST020: Summit Psychology**

**Course Description:** In this one-semester 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 psychology terms and how to apply psychological principles to their own lives. Unit topics include: Methods of Study, Biological Basis for Behavior, Learning and Memory, Development and Individual Differences, and Psychological Disorders.

**Course Length:** One Semester

### **HST040: Civics**

**Course Description:** Civics is the study of citizenship and government. This one-semester 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.

**Course Length:** One Semester

### **HST060: Sociology I**

**Course Description:** 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 and impact their lives. Exciting online video journeys to an array of areas in the sociological world are an important component of this relevant and engaging course.

**Course Length:** One Semester

### **HST061: Sociology II**

**Course Description:** Sociology is the study of people, social life, and society. By developing a “sociological imagination,” students examine how society itself shapes human action and beliefs—and how in turn these factors reshape society itself. Fascinating online video journeys inform students and motivate them to seek more knowledge on their own.

**Course Length:** One Semester

### **HST213: Summit Geography A & B**

**Course Description:** This course examines a broad range of geographical perspectives covering all of the major regions of the world. Students clearly see the similarities and differences among the regions as they explore the locations and physical characteristics, including absolute and relative location, climate, and significant geographical features. They look at each region from cultural, economic, and political perspectives, and closely examine the human impact on each region. Students take diagnostic tests that assess their current knowledge and generate individualized study plans, so students can focus on topics that need review. Audio readings and vocabulary lists in English and Spanish support reading comprehension.

**Course Length:** Two Semesters – May take either or both. Taking Semester A first is recommended, but not required.

---

## **MATHEMATICS**

### **MTH001: Math Foundations I (Remedial)**

**Recommended Grade Level:** 9-12

**Course Description:** Students build and reinforce foundational math skills typically found in third through fifth grade for which they have not achieved mastery. They progress through carefully paced, guided instruction and engaging interactive practice. Formative assessments identify areas of weakness and prescribe lessons to improve performance. Summative assessments track progress and skill development. If needed, students can move on to Math Foundations II (addressing skills typically found in sixth through eighth grade) to further develop the computational skills and conceptual understanding needed to undertake high school math courses with confidence.

**Course Length:** Two Semesters

**Prerequisites:** Teacher/school counselor recommendation only

### **MTH107: Summit Developmental Algebra**

**Recommended Grade Level:** 9/10

**Course Description:** This is the first course in a two-year algebra sequence that concludes with Continuing Algebra (forthcoming in 2014-2015). In this course, students begin to explore the tools and principles of algebra. Students learn to identify the structure and properties of the real number system; complete operations with integers and



other rational numbers; work with square roots and irrational numbers; graph linear equations; solve linear equations and inequalities in one variable; and solve systems of linear equations. Sophisticated virtual manipulatives and online graphing tools help students visualize algebraic relationships. Developmental Algebra covers fewer topics than a one-year algebra course, providing students with more time to learn and practice key concepts and skills. After completing Developmental Algebra, students will be prepared to take Continuing Algebra.

**Course Length:** Two Semesters

**Prerequisites:** Pre-Algebra (or equivalent)

### **MTH113: Summit Pre-Algebra**

**Recommended Grade Level:** 9

**Course Description:** In this course, students take a broader look at computational and problem-solving skills while learning the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem; and explain strategies for solving real-world problems. Lessons provide demonstrations of key concepts as well as interactive problems with contextual feedback. A textbook supplements the online material.

**Course Length:** Two Semesters

### **MTH128: Summit Algebra I**

**Recommended Grade Level:** 9

**Course Description:** The Summit Algebra 1 course is intended to formalize and extend the mathematics that students learned in the middle grades. Because it is built to follow revised middle school math courses, the course covers slightly different ground than previous versions of algebra. In this course, students deepen their understanding of linear and exponential relationships by contrasting them with each other. Students also apply linear models to data that exhibit a linear trend. The course also covers analyzing, solving, and using quadratic functions.

**Course Length:** Two Semesters

### **MTH207: Summit Continuing Algebra**

**Recommended Grade Level:** 10

**Course Description:** This is the second course in a two-year algebra sequence. In this course, students build on what they learned in MTH107: Developmental Algebra to complete their knowledge of all topics associated with a deep understanding of Algebra I. They learn about relations and functions, radicals and radical expressions, polynomials and their graphs, factoring expressions and using factoring to solve equations, solving quadratics, rational expressions, and logic and reasoning.

**Course Length:** Two Semesters

**Materials:** Algebra I: Reference Guide and Problem Sets

**Prerequisites:** Developmental Algebra (or equivalent)

### **MTH208A: Fundamentals of Summit Geometry**

**Recommended Grade Level:** 10

**Course Description:** 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.

**Course Length:** Two Semesters

**Prerequisites:** Algebra I (or equivalent), Teacher/Counselor Recommendation only

### **MTH208: Summit Geometry**

**Recommended Grade Level:** 10

**Course Description:** 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.

**Course Length:** Two Semesters

**Materials:** Reference Guide

**Prerequisites:** Algebra I (or equivalent)

### **MTH307: Practical Math**

**Recommended Grade Level:** 11/12

**Course Description:** In this course, students use math to solve real-world problems—and real-world problems to solidify their understanding of key mathematical topics. Data analysis, math modeling, and personal finance are key themes in this course. Specific topics of study include statistics, probability, graphs of statistical data, regression, finance, and budgeting. In addition, students learn how to use several mathematical models involving algebra and geometry to solve problems. Proficiency is measured through frequent online and offline assessments, as well as class participation. Units focused on projects also allow students to apply and extend their math skills in real-world cases.

**Course Length:** Two Semesters

**Prerequisites:** Algebra I and Geometry (or equivalents)

### **MTH308: Summit Algebra II**

**Recommended Grade Level:** 11/12

**Course Description:** This Summit 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.

**Course Length:** Two Semesters

**Materials:** Reference Guide

**Prerequisites:** Algebra I and Geometry (or equivalents)

### **MTH322: Consumer Math**

**Recommended Grade Level:** 11/12

**Course Description:** In Summit Consumer Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester, students learn about personal finances, checking and savings accounts, loans and buying

on credit, automobile expenses, and housing expenses. Narrated slideshows help illustrate some of the more difficult content. Throughout the course, students participate in online discussions with each other and their teacher. In Consumer Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester, students learn about personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses. Narrated slideshows help illustrate some of the more difficult content. Throughout the course, students participate in online discussions with each other and their teacher.

**Course Length:** Two Semesters

### **MTH403: Summit Pre-Calculus/Trigonometry**

**Recommended Grade Level:** 11/12

**Course Description:** 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 a variety of other fields related to mathematics. Purposeful concentration is placed on how the concepts covered relate to each other. Demonstrating the connection between the algebra and the geometry of concepts highlights the interwoven nature of the study of mathematics.

**Course Length:** Two Semesters

**Prerequisites:** Geometry and Algebra II (or equivalents)

### **MTH500: AP<sup>®</sup> Calculus AB**

**Recommended Grade Level:** 11/12

**Course Description:** 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 the AP exam and further studies in science, engineering, and mathematics.

**Course Length:** Two Semesters

**Prerequisites:** Success in Geometry, Algebra II, Pre-Calculus/Trigonometry (or equivalents), and teacher/ school counselor recommendation

### **MTH510: AP<sup>®</sup> Statistics**

**Recommended Grade Level:** 11/12

**Course Description:** This course is the equivalent of an introductory college-level course. Statistics—the art of drawing conclusions from imperfect data and the science of real-world uncertainties— plays an important role in many fields. Students collect, analyze, graph, and interpret real-world data. They learn to design and analyze research studies by reviewing and evaluating examples from real research. Students prepare for the AP<sup>®</sup> Exam.

**Course Length:** Two Semesters

**Prerequisites:** Success in Algebra II (or equivalent) and teacher/school counselor recommendation

---

## SCIENCE

### **SCI102: Summit Physical Science**

**Recommended Grade Level:** 9

**Course Description:** Students explore the relationship between matter and energy by investigating force and motion, the structure of atoms, the structure and properties of matter, chemical reactions, and the interactions of energy and matter. Students develop skills in measuring, solving problems, using laboratory apparatuses, following safety procedures, and adhering to experimental procedures. Students focus on inquiry-based learning, with hands-on laboratory investigations making up half of the learning experience.

**Course Length:** Two Semesters

### **SCI203: Summit Biology**

**Recommended Grade Level:** 10

**Course Description:** In this comprehensive course, students investigate the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of in-depth online lessons including extensive animations, an associated reference book, collaborative explorations, and hands-on laboratory experiments students can conduct at home.

**Course Length:** Two Semesters

### **SCI113: Summit Earth Science**

**Recommended Grade Level:** 11/12

**Course Description:** This course provides students with a solid earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of online lessons, an associated reference book, collaborative activities, and hands-on laboratories students can conduct at home. The course provides a base for further studies in geology, meteorology, oceanography, and astronomy, and gives practical experience in implementing scientific methods.

**Course Length:** Two Semesters

### **SCI303: Summit Chemistry**

**Recommended Grade Level:** 11/12

**Course Description:** This course gives students a solid basis to move on to future studies. The course provides an in-depth survey of all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction, laboratories, and related assessments, used with a problem-solving book.

**Course Length:** Two Semesters

**Prerequisites:** Physical Science and solid grasp of algebra basics, evidenced by success in Algebra I (or equivalents)

### **SCI010 Summit Environmental Science**

**Recommended Grade Level:** 11/12

**Course Description:** This course surveys key topic areas including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on, unit-long research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.

**Course Length:** One Semester

**Prerequisites:** Success in previous high school science course; and teacher/school counselor recommendation

### **SCI321 Anatomy and Physiology**

**Recommended Grade Level:** 11/12

**Course Description:** Starting with the relationship between anatomy and physiology, students will then learn about cell structure and their processes. Learners will also discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems. Students will learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and the endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics. Finally, students will explore the importance of accurate patient documentation as well as technology used in the industry.

**Course Length:** One Semester

### **SCI322 Anatomy and Physiology**

**Recommended Grade Level:** 11/12

**Course Description:** Starting with the relationship between anatomy and physiology, students will then learn about cell structure and their processes. Learners will also discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems. Students will learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and the endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics. Finally, students will explore the importance of accurate patient documentation as well as technology used in the industry.

**Course Length:** One Semester

### **SCI403: Summit Physics**

**Recommended Grade Level:** 11/12

**Course Description:** This course provides a comprehensive survey of all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, and magnetism, and introduces students to modern physics topics such as quantum theory and the atomic nucleus. The course gives students a solid basis to move on to more advanced courses later in their academic careers. The program consists of online instruction, laboratories, and related assessments, plus an associated problem-solving book.

**Course Length:** Two Semesters

**Prerequisites:** Algebra II and Pre-Calculus/Trigonometry (or equivalents)

### **SCI500: AP<sup>®</sup> Biology**

**Recommended Grade Level:** 11/12

**Course Description:** This course guides students to a deeper understanding of biological concepts including the diversity and unity of life, energy and the processes of life, homeostasis, and genetics. Students learn about regulation, communication, and signaling in living organisms, as well as interactions of biological systems. Students

carry out a number of learning activities, including readings, interactive exercises, extension activities, hands-on laboratory experiments, and practice assessments. These activities are designed to help students gain an understanding of the science process and critical-thinking skills necessary to answer questions on the AP Biology Exam. The content aligns to the sequence of topics recommended by the College Board.

**Course Length:** Two Semesters

**Prerequisites:** Success in Biology, Chemistry, Algebra I (or equivalents), and teacher/school counselor recommendation required; success in Algebra II highly recommended.

### **SCI510: AP<sup>®</sup>Chemistry**

**Recommended Grade Level:** 11/12

**Course Description:** Students solve chemical problems by using mathematical formulation principles and chemical calculations in addition to laboratory experiments. They build on their general understanding of chemical principles and engage in a more in-depth study of the nature and reactivity of matter. Students focus on the structure of atoms, molecules, and ions, and then go on to analyze the relationship between molecular structure and chemical and physical properties. To investigate this relationship, students examine the molecular composition of common substances and learn to transform them through chemical reactions with increasingly predictable outcomes.

**Course Length:** Two Semesters

**Prerequisites:** Success in Chemistry and Algebra II, and teacher/school counselor recommendation.

### **SCI530: AP<sup>®</sup>Environmental Science**

**Recommended Grade Level:** 11/12

**Course Description:** This course aims to provide students with scientific principles, concepts, and methodologies needed to understand interrelationships in the natural world; identify and analyze environmental problems (natural and human-made); evaluate the relative risks associated with these problems; and examine alternative solutions to resolve or prevent these problems. Unifying themes in the course, identified by the College Board, provide a foundation for the content. This course

**Course Length:** Two Semesters

**Prerequisites:** Minimum 1 year of high school Algebra and completion of Earth Science.

### **OTH033: Veterinary Science**

**Recommended Grade Level:** 9-12

**Course Description:** As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look 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 not only the animals around us, but at times, us humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.

**Course Length:** One Semester

### **OTH221: Engineering Fundamentals 1 – NEW!**

**Recommended Grade Level:** 11/12

**Course Description:** This course is designed to give students strong problem-solving skills and a solid foundation in fundamental principles they will need to become analytical, detail-oriented, and innovative engineers. The course begins with an overview of what engineers do, an inside glimpse of the various areas of specialization, and a straightforward look at what it takes to succeed. It then covers the basic physical concepts and laws that students

will encounter on the job. The course also includes professional profiles that highlight the work of practicing engineers from around the globe. Throughout, the course demonstrates how engineers apply physical and chemical laws and principles, as well as mathematics, to design, test, and supervise the production of millions of parts, products, and services that people use every day.

**Course Length:** One Semester

### **OTH222: Engineering Fundamentals 2 – NEW!**

**Recommended Grade Level:** 11/12

**Course Description:** This is the second semester of Engineering Fundamentals. This course is designed to give students strong problem-solving skills and a solid foundation in fundamental principles they will need to become analytical, detail-oriented, and creative engineers. The course begins with an overview of what engineers do, an inside glimpse of the various areas of specialization, and a straightforward look at what it takes to be successful in engineering. It then covers the basic physical concepts and laws that students will encounter on the job. The course also includes professional profiles that highlight the work of practicing engineers from around the globe. Throughout, the course demonstrates how engineers apply physical and chemical laws and principles, as well as mathematics, to design, test, and supervise the production of millions of parts, products, and services that people use every day.

**Course Length:** One Semester

---

## **WORLD LANGUAGES**

### **WLG100: Spanish I**

**Course Description:** Students begin their introduction to Spanish by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries; and take frequent assessments by which their language progression can be monitored.

**Course Length:** Two Semesters

**Note:** Students who have already succeeded in Middle School Spanish 2 should enroll in Spanish II rather than in Spanish I

### **WLG200: Spanish II (Year 1)**

**Course Description:** Students continue their study of Spanish by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities,

speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations and respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries; and take frequent assessments by which their language progression can be monitored. By Semester 2, the course is conducted almost entirely in Spanish.

**Course Length:** Two Semesters

**Prerequisites:** Spanish; Middle School Spanish 1 and 2 (or equivalents)

### **WLG300: Spanish III (Spanish II Year 2)**

**Course Description:** Intermediate Spanish students who have a strong base of vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course. Through games and compelling stories, students learn advanced grammar and vocabulary, with an emphasis on correct accents and comprehension of real-world native speech. Error-recognition technology helps students eliminate common mistakes from their speaking and writing. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

**Course Length:** Two Semesters

**Prerequisites:** WLG200: Spanish II (or equivalent)

### **WLG300: Spanish IV**

**Course Description:** 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 by which their language progression can be monitored.

**Course Length:** Two Semesters

**Prerequisites:** WLG300: Spanish III (or equivalent)

### **WLG500: AP Spanish Language and Culture**

**Course Description:** The AP<sup>®</sup> Spanish Language and Culture course is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical and communicative skills. The AP<sup>®</sup> Spanish Language and Culture course prepares students for the AP<sup>®</sup> Spanish Language and Culture exam. It uses as its foundation the three modes of communication (Interpersonal, Interpretive, and Presentational) as defined in the Standards for Foreign Language Learning in the twenty-first century. The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. In addition, students participate in a forum where they are able to share their own opinions and comments about various



topics and comment on other students' posts. The course also makes great use of the Internet for updated and current material.

**Course Length:** Two Semesters

**Prerequisites:** Strong success in Spanish III, or success in Spanish IV (or equivalents), and teacher/school counselor recommendation

### **WLG110: French I**

**Course Description:** Students begin their introduction to French by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries; and take frequent assessments by which their language progression can be monitored.

**Course Length:** Two Semesters

**Note:** Students who have already succeeded in middle school French 2 should enroll in French II rather than in French I

### **WLG210: French II**

**Course Description:** Students continue their study of French by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations and respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various French-speaking countries; and take frequent assessments by which their language progression can be monitored. By semester 2, the course is conducted almost entirely in French.

**Course Length:** Two Semesters

**Prerequisites:** French I, Middle School French 1 and 2 (or equivalents)

### **WLG310: French III**

**Course Description:**

Students further deepen their understanding of French 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 both formal and informal 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; respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various French-speaking countries; read and analyze important pieces of literature; and take frequent assessments by which their language progression can be monitored. The course is conducted almost entirely in French.

**Course Length:** Two Semesters

**Prerequisites:** French II (or equivalent)

### **WLG510: AP French Language**

**Course Description:** The AP® French Language and Culture course is an advanced language course in which students prepare for the AP® French Language and Culture exam. It uses as its foundation the three modes of communication: interpersonal, interpretive, and presentational. The course is conducted almost exclusively in French. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide variety of authentic French-language materials and sources; demonstrate proficiency in interpersonal, interpretive, and presentational communication using French; gain knowledge and understanding of the cultures of the Francophone world; use French to connect with other disciplines and expand knowledge in a wide variety of contexts; develop insight into the nature of the French language and its culture; and use French to participate in communities at home and around the world. The AP® French Language course is a college level course.

**Course Length:** Two Semesters

**Prerequisites:** Strong success in French III, or success in French IV (or equivalents), and teacher/school counselor recommendation

### **WLG120: German I**

**Course Description:** Students begin their introduction to German by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations; respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various German-speaking countries; and take frequent assessments by which their language progression can be monitored.

**Course Length:** Two Semesters

**Note:** Students who have already succeeded in middle school German 2 should enroll in German II rather than in German I

### **WLG220: German II**

**Course Description:** Students continue their study of German by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit

consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations; respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various German speaking countries; and take frequent assessments by which their language progression can be monitored.

**Course Length:** Two Semesters

**Prerequisites:** German I, Middle School German 1 and 2 (or equivalents)

---

## **ELECTIVES AND ADDITIONAL COURSES**

### **OTH010: Summit Skills for Health**

**Course Description:** 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.

**Course Length:** One Semester

### **OTH020: Summit Physical Education**

**Course Description:** This pass/fail course combines online instructional guidance with student participation in weekly cardiovascular, aerobic, muscle-toning, and other activities. Students fulfill course requirements by keeping weekly logs of their physical activity. The course promotes the value of lifetime physical activity and includes instruction in injury prevention, nutrition and diet, and stress management. Students may enroll in the course for either one or two semesters and repeat for further semesters as needed to fulfill state requirements.

**Course Length:** One Semester

### **OTH035: Early Childhood Education**

**Course Description:** 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!

**Course Length:** One Semester

### **OTH040: College Success**

**Course Description:** This is a Dual Credit course worth 3 college credits with successful completion of the course. College Success is frequently a first year course in many technical college programs. This course provides learners with strategies to develop skills for success in college. Learners will work on academic skills such as test taking, note taking, reading etc. And, learners will work on other success strategies such as motivation, goal setting,

interdependence, and self-awareness. Learners will apply self-management techniques, explore resource management strategies, practice study skills, and learn about ways to improve personal effectiveness.

**Course Length:** One Semester

### **OTH070: Driver's Safety (Elective)**

**Course Description:** This course is instructed through CESA 2 and is certified to meet the state department of transportation's or motor vehicle's requirements for learners permit issuance. Drivers Safety can provide a foundation for a lifetime of responsible driving. Instructional material in this course emphasizes the mechanics of driving operations and the rules of safe driving. Among other topics, students learn how to assess and manage risk, handle social pressures, understand signs and signals, comprehend the rules of the road, and start, steer, stop, turn, and park a car. They also learn how to contend with driving environments including light and weather conditions, share the roadway, respond to an emergency. This course does NOT include Behind the Wheel. There is a \$50.00 fee for this course as it is instructed through CESA 2.

**Course Length:** One Semester (SEMESTER 2)

**COST: \$50.00**

**Notes:** Limited to 25 students

### **OTH120: AVID I**

**Course Description:** The AVID I course is an elective course for students that are college-bound (Tech or 4-year). The AVID curriculum will focus on writing, inquiry, collaboration, organization and reading (WICOR) in both teacher and student-led activities. Other areas that are stressed in the AVID I curriculum will be note-taking, critical reading strategies, public speaking and social/emotional development. Students will also be encouraged to start looking at colleges that they will be interested in attending in the future.

**Course Length:** Two Semesters

**Prerequisites:** Must have teacher/counselor recommendation

### **OTH171: Culinary Arts 1**

**Course Description:** 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.

**Course Length:** One semester

### **OTH172: Culinary Arts 2 – NEW!!**

**Course Description:** 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!

**Course Length:** One semester

**Prerequisite:** Culinary Arts 1

### **OTH181: Fashion Design – NEW!!**

**Course Description:** Are you a fashion trend follower? Are you drawn to how designers have pulled together fabrics and colors to create memorable pieces? Do you dream of designing your own line of clothing or accessories? Learn what it takes to get started in the fashion industry, from the careers available to new technology and trends reshaping the industry every day. Start creating!

**Course Length:** One semester

### **OTH182: Interior Design – NEW!!**

**Course Description:** Do you have a flare for designing and decorating? If so, this course will show you how to turn your interests and skills into a career. From professionals who own their own business to those working within a larger company, interior designers do it all—from planning the color scheme to choosing furniture and light fixtures—with the end goal of creating a space where people can live or work comfortably, safely, and happily. You’ll learn about color, texture, trends and styles over time, how homes are built, and “green” options for homes and businesses. Most importantly, you’ll learn how to work with a client to meet their unique needs and style requirements. This course will help you to identify parts of interior design that are most interesting to you, helping you to chart the path for your future.

**Course Length:** One semester

### **TCH047: Web Design 1**

**Course Description:** TCH047 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 web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi page 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.

**Course Length:** One Semester

### **TCH048: Web Design 2**

**Course Description:** TCH048 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 web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi page 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.

**Course Length:** One Semester

**Prerequisite:** Web Design 1

### **TCH105: Computer Literacy**

**Course Description:** In this introductory course, students become familiar with the basic principles of a personal computer, including the internal hardware, operating system, and software applications. Students gain practice in using key applications such as word processing, spreadsheet, and presentation software, as well as understand social and ethical issues around the Internet, information, and security.

**Course Length:** One semester

### **TCH114: Microsoft Office 1**

**Course Description:** This course is a Project Based Learning course (PBL). 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office II must be taken Semester II and a grade of C or above must be earned for both courses.

### **TCH115: Microsoft Office 2**

**Course Description:** This course is a Project Based Learning course (PBL). This course is for students who wish to learn core skills in Microsoft Excel, and Access. Students work through hands-on 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office I must be taken Semester II and a grade of C or above must be earned for both courses.

---

## **BUSINESS PATHWAY**

### **BUS031: Personal Finance (Elective)**

**Course Description:** This course covers the most current and relevant financial topics that impact today's students. Topics including budgeting, identity theft, saving, investing, risk management, and careful use of credit. This course teaches students how to plan and manage their personal finances; how to live a financially successful life; and what their financial responsibilities are as citizens.

**Course Length:** One Semester

### **BUS065: Marketing I**

**Course Description:** 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.

**Course Length:** One Semester

**Notes:** Dual Credit can be earned through Madison College for 3 credits if final grade is C or above. Marketing II must be taken Semester II and a grade of C or above must be earned for both courses.

### **BUS075: Marketing II**

**Course Description:** 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 an entrepreneur 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.

**Course Length:** One Semester

**Notes:** Dual Credit can be earned through Madison College for 3 credits if final grade is C or above. Marketing I must be taken Semester II and a grade of C or above must be earned for both courses.

### **BUS111: Accounting I**

**Course Description:** This is the first semester of a two semester course. The course teaches accounting while placing emphasis on conceptual understanding and financial statement analysis to encourage students to apply accounting concepts to real-world situations and make informed business decisions. Topics include transactions and methods of accounting for both service and merchandising businesses. Accounting I prepares students for the NOCTI Accounting-Basic credential.

**Course Length:** One Semester

**Notes:** Dual Credit can be earned through Madison College for 4 credits if final grade is C or above. Accounting II must be taken Semester II and a grade of C or above must be earned for both courses.

### **BUS112: Accounting II**

**Course Description:** This is the second semester of a two semester course. The course continues to teach accounting while placing emphasis on conceptual understanding and financial statement analysis to encourage students to apply accounting concepts to real-world situations and make informed business decisions. Topics include transactions and methods of accounting for both service and merchandising businesses. Accounting 2 prepares students for the NOCTI Accounting-Advanced credential.

**Course Length:** One Semester

**Prerequisites:** Completion of Accounting I

**Notes:** Dual Credit can be earned through Madison College for 4 credits if final grade is C or above. Accounting I must be taken Semester II and a grade of C or above must be earned for both courses.

### **BUS130: Intro to Business Management (Project Based Learning)**

**Course Description:** Do you dream of owning your own business someday, or working for a company in a leadership position? Wherever your path may lead you, having the essential knowledge of business types, requirements to start a business, understanding of finances, business law, marketing, sales, customer service, and more, will ensure you're on the path to success. Let's explore your passion for business in this course!

**Course Length:** One Semester

**Prerequisites:** CAR017 Business and Marketing Explorations, TCH105 Computer Literacy

### **CAR017: Business and Marketing Explorations (Project Based Learning)**

**Course Description:** This course is designed as an exploration of the business career pathways. Students will get an introduction to business careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of business and marketing, as well as career options in each area.

Students study the concepts of marketing, financial management, and human resource management, in addition to other common business related functions. Students complete projects to develop a deeper understanding of the roles these business functions play.

**Course Length:** One Semester

### **HST030: Summit Economics**

**Course Description:** 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.

**Course Length:** One Semester

### **TCH047: Web Design 1**

**Course Description:** TCH047 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 web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi page 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.

**Course Length:** One semester

### **TCH048: Web Design 2**

**Course Description:** TCH048 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 web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi page 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.

**Course Length:** One Semester

**Prerequisite:** Web Design 1



**TCH105: Computer Literacy**

**Course Description:** In this introductory course, students become familiar with the basic principles of a personal computer, including the internal hardware, operating system, and software applications. Students gain practice in using key applications such as word processing, spreadsheet, and presentation software, as well as understand social and ethical issues around the Internet, information, and security.

**Course Length:** One semester

**TCH114: Microsoft Office 1**

**Course Description:** This course is a Project Based Learning course (PBL). 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office II must be taken Semester II and a grade of C or above must be earned for both courses.

**TCH115: Microsoft Office 2**

**Course Description:** This course is a Project Based Learning course (PBL). This course is for students who wish to learn core skills in Microsoft Excel, and Access. Students work through hands-on 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office I must be taken Semester II and a grade of C or above must be earned for both courses.

---

## IT PATHWAY

**CAR095 IT Explorations (New Project Based Learning)**

**Course Description:** This course is a Project Based Learning course (PBL). This course is designed as an exploration of the information technology career pathways. Students will get an introduction to information technology careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of information technology, as well as career options in each area. Students study the concepts of networking information support, web and digital communications, and programming and software development.

**Course Length:** One semester

**COM110: Interpersonal Communication - NEW!!**

**Course Description:** Coming Soon!

**Course Length:** One semester

**TCH047: Web Design 1**

**Course Description:** TCH047 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 web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi page 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.

**Course Length:** One semester

### **TCH048: Web Design 2**

**Course Description:** TCH048 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 web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi page 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.

**Course Length:** One Semester

**Prerequisite:** Web Design 1

### **TCH073: Video Game Design 1**

**Course Description:** The CodeHS video game design curriculum teaches the foundations of creating video games in JavaScript.

The course utilizes a project-based learning approach. The content is fully web-based, with students writing and running code in the browser. 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.

Students write and run JavaScript programs in the browser using the CodeHS editor.

**Course Length:** One semester

### **TCH074: Video Game Design 2**

**Course Description:** The CodeHS video game design curriculum teaches the foundations of creating video games in JavaScript.

The course utilizes a project-based learning approach. The content is fully web-based, with students writing and running code in the browser. 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.

Students write and run JavaScript programs in the browser using the CodeHS editor.

**Course Length:** One semester

**TCH114: Microsoft Office 1**

**Course Description:** This course is a Project Based Learning course (PBL). This course is for students who wish to learn core skills in Microsoft Word and PowerPoint. After completing this course, student will be prepared to take the Microsoft Office Specialist exam in Word and PowerPoint. Students work through 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office II must be taken Semester II and a grade of C or above must be earned for both courses.

**TCH115: Microsoft Office 2**

**Course Description:** This course is a Project Based Learning course (PBL). This course is for students who wish to learn core skills in Microsoft Excel, and Access. Students work through hands-on 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office I must be taken Semester II and a grade of C or above must be earned for both courses.

**TCH211: Programming, Logic and Design**

**Course Description:** This course prepares student programmers for success by teaching them the fundamental principles of developing structured program logic. This course takes a unique, language independent approach to programming, with a distinctive emphasis on modern conventions and prepares students for all programming situations with introductions to object-oriented concepts, UML diagrams, and databases.

**Course Length:** One semester

**TCH220: Computer Science Principles**

**Course Description:** TCH220-PBL Computer Science Principles is a CodeHS course that introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. The course utilizes a project-based learning approach.

With a unique focus on creative problem solving and real-world applications, the CodeHS Computer Science Principles course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field.

**Course Length:** One semester

**TCH321: Introduction to Java Programming I**

**Course Description:** This course is a Project Based Learning course (PBL). Introduction to Java 1 is a CodeHS course that teaches students the basics of object-oriented programming with a focus on problem solving and algorithm development. Students learn basic Java, methods, data structures, classes, and object-oriented programming in this course. It is the first course in a two course sequence and should be completed before TCH324 Introduction to Java 2.

**Course Length:** One semester

**Prerequisite:** Computer Science completion required; Algebra and Geometry are strongly recommended to be completed or taken alongside this course

### **TCH322: Introduction to Java Programming II**

**Course Description:** This course is a Project Based Learning course (PBL). Introduction to Java 2 is a CodeHS course that teaches students the basics of object-oriented programming with a focus on problem solving and algorithm development. Students learn basic Java, methods, data structures, classes, and object-oriented programming in this course. It is the second course in a two course sequence and should be completed after TCH323 Introduction to Java 1.

**Course Length:** One semester

**Prerequisite:** Introduction to Java Programming 1

### **TCH553: Cyber Security**

**Course Description:** TCH553 Cybersecurity is a CodeHS course that teaches students foundational cybersecurity topics including digital citizenship and cyber hygiene, the basics of cryptography, software security, networking fundamentals, and basic system administration. Students will complete projects at the end of each module, and a culminating course project completing a simulated hack walkthrough. Students will learn basic SQL, and will utilize basic HTML and JavaScript within specific contexts and will be provided supports within those contexts.

**Course Length:** One semester

---

## **HEALTHCARE PATHWAY**

### **CAR019: Healthcare Explorations**

**Course Description:** This course is a Project Based Learning course (PBL). This course is designed as an exploration of the healthcare career pathways. Students will get an introduction to healthcare careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of healthcare, as well as career options in each area. Students study the concepts of disease prevention, personal health management, and social work, in addition to other common health related functions. Students complete projects to develop a deeper understanding of the roles these healthcare functions play.

**Course Length:** One semester

### **HTL212: Medical Terminology 1**

**Course Description:** This course simplifies the process of memorizing complex medical terminology by focusing on the important word parts—common prefixes, suffixes and root words—that provide a foundation for learning hundreds of medical terms. Organized by body systems, the course follows a logical flow of information: an overview of the body system's structures and functions, a summary of applicable medical specialties, and ultimately pathology, diagnostic, and treatment procedures.

**Course Length:** One semester

### **HTL230: Intro to Human and Social Services**

**Course Description:** Those working in the field of social services are dedicated to strengthening the economic and social well-being of others and helping them lead safe and independent lives. Explore the process of helping, body, mind, and family wellness, and how you can become a caring social service professional. If you are interested in an emotionally fulfilling and rewarding career and making a difference in the lives of others, social and human services may be the right field for you.

**Course Length:** One semester

#### **HTL511: Nursing Assistant with Exam Prep 1**

**Course Description:** These courses prepare nursing assistants for meaningful careers in acute care, long-term care, and home health. Students learn more than 150 procedures, including key skills in patient handling and transfers, wound care, communication, safety, and record keeping. Students also learn about infection control, safety, culture, working with difficult patients, OSHA, communication, age-appropriate care, and legal considerations. Optional materials: To complete lab practicums (optional), students will need access to a standard clinical lab with common furniture, fixtures, tools, equipment, and disposable and consumable materials. For a comprehensive list of equipment and materials, please contact a K12 instructor or representative.

**Course Length:** One semester

#### **OTH080: Nutrition and Wellness**

**Course Description:** This half-credit course will introduce the student to an overview of good nutrition principles that are needed for human physical and mental wellness. Discussion of digestion, basic nutrients, weight management, sports and fitness, and life-span nutrition is included. Application to today's food and eating trends, plus learning to assess for reliable nutrition information is emphasized.

**Course Length:** One semester

#### **OTH092: Health Science I**

**Course Description:** 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.

**Course Length:** One semester

#### **SCI321 Anatomy and Physiology**

**Recommended Grade Level:** 11/12

**Course Description:** Starting with the relationship between anatomy and physiology, students will then learn about cell structure and their processes. Learners will also discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems. Students will learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and the endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics. Finally, students will explore the importance of accurate patient documentation as well as technology used in the industry.

**Course Length:** One Semester

#### **SCI322 Anatomy and Physiology**

**Recommended Grade Level:** 11/12

**Course Description:** Starting with the relationship between anatomy and physiology, students will then learn about cell structure and their processes. Learners will also discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems. Students will learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and the endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics. Finally, students will explore the importance of accurate patient documentation as well as technology used in the industry.

**Course Length:** One Semester

#### **TCH105: Computer Literacy**

**Course Description:** In this introductory course, students become familiar with the basic principles of a personal computer, including the internal hardware, operating system, and software applications. Students gain practice in using key applications such as word processing, spreadsheet, and presentation software, as well as understand social and ethical issues around the Internet, information, and security.

**Course Length:** One semester

#### **TCH114: Microsoft Office 1**

**Course Description:** This course is a Project Based Learning course (PBL). 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office II must be taken Semester II and a grade of C or above must be earned for both courses.

#### **TCH115: Microsoft Office 2**

**Course Description:** This course is a Project Based Learning course (PBL). This course is for students who wish to learn core skills in Microsoft Excel, and Access. Students work through hands-on 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office I must be taken Semester II and a grade of C or above must be earned for both courses.

---

## **CONSTRUCTION PATHWAY**

### **CAR021: Construction Explorations**

**Course Description:** 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.

**Course Length:** One semester

**MFG010: Basic Grade and Construction Math**

**Course Description:** In this course students, will learn how to use concepts and mathematical calculations with plans sheets to better familiarize themselves with the construction process. (Math level Pre-Algebra).

**Course Length:** One semester

**Notes:** Articulated Credit can be earned through Fox Valley Technical College if final grade is B or above.

**MFG201: Basic Construction Equipment Fundamentals**

**Course Description:** Introduces students to heavy equipment used in the construction industry. Students will also be instructed on basic safety, maintenance, and communication methods that operating engineers may be exposed to.

**Course Length:** One semester

**Notes:** Articulated Credit can be earned through Fox Valley Technical College if final grade is B or above.

**MFG202: Basic Maintenance of Mobile Equipment**

**Course Description:** Instructs students in the basics of maintenance of heavy equipment. Students will learn about engines, hydraulic systems, powertrain systems, lubricants and electrical systems. They will also be taught preventative maintenance, how to use parts and technical manuals, shop safety and tools.

**Course Length:** One semester

**Notes:** Articulated Credit can be earned through Fox Valley Technical College if final grade is B or above.

**OTH221: Engineering Fundamentals 1 – NEW!**

**Recommended Grade Level:** 11/12

**Course Description:** In this course students learn about actual product design through all phases, from concept through manufacturing, marketing, and distribution. Students learn how engineering design practices improve output quality and also learn management methods to identify the causes of defects, remove them, and minimize manufacturing variables.

**Course Length:** One Semester

**OTH222: Engineering Fundamentals 2 – NEW!**

**Recommended Grade Level:** 11/12

**Course Description:** This is the second semester of Engineering Drawing and Design. In this course students continue their study of learning about actual product design through all phases, from concept through manufacturing, marketing, and distribution. Students learn how engineering design practices improve output quality and also learn management methods to identify the causes of defects, remove them, and minimize manufacturing variables.

**Course Length:** One Semester

**OTH240: CDL Preparation with Skills USA**

**Course Description:** Instructs students in the basics of heavy equipment operation licensure requirements followed by professional skill building and employment readiness.

**Course Length:** One semester

**Prerequisite:** Must be 18 years or older

**SCI113: Summit Earth Science**

**Course Description:** This course provides students with a solid earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of online lessons, an associated reference book, collaborative activities, and hands-on laboratories students can conduct at home. The course provides a base for further studies in geology, meteorology, oceanography, and astronomy, and gives practical experience in implementing scientific methods.

**Course Length:** Two semesters

#### **TCH105: Computer Literacy**

**Course Description:** In this introductory course, students become familiar with the basic principles of a personal computer, including the internal hardware, operating system, and software applications. Students gain practice in using key applications such as word processing, spreadsheet, and presentation software, as well as understand social and ethical issues around the Internet, information, and security.

**Course Length:** One semester

#### **TCH114: Microsoft Office 1**

**Course Description:** This course is a Project Based Learning course (PBL). 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office II must be taken Semester II and a grade of C or above must be earned for both courses.

#### **TCH115: Microsoft Office 2**

**Course Description:** This course is a Project Based Learning course (PBL). This course is for students who wish to learn core skills in Microsoft Excel, and Access. Students work through hands-on 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office I must be taken Semester II and a grade of C or above must be earned for both courses.

---

## **LAW, PUBLIC SAFETY AND SECURITY**

#### **COM110: Interpersonal Communication - NEW!!**

**Course Description:** Coming Soon!

**Course Length:** One semester

#### **HLT230: Intro to Human and Social Services**



**Course Description:** Those working in the field of social services are dedicated to strengthening the economic and social well-being of others and helping them lead safe and independent lives. Explore the process of helping, body, mind, and family wellness, and how you can become a caring social service professional. If you are interested in an emotionally fulfilling and rewarding career and making a difference in the lives of others, social and human services may be the right field for you.

**Course Length:** One Semester

### **HST020: Summit Psychology**

**Course Description:** In this one-semester 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 psychology terms and how to apply psychological principles to their own lives. Unit topics include: Methods of Study, Biological Basis for Behavior, Learning and Memory, Development and Individual Differences, and Psychological Disorders.

**Course Length:** One Semester

### **HST060: Sociology I**

**Course Description:** 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 and impact their lives. Exciting online video journeys to an array of areas in the sociological world are an important component of this relevant and engaging course.

**Course Length:** One Semester

### **HST061: Sociology II**

**Course Description:** Sociology is the study of people, social life, and society. By developing a “sociological imagination,” students examine how society itself shapes human action and beliefs—and how in turn these factors reshape society itself. Fascinating online video journeys inform students and motivate them to seek more knowledge on their own.

**Course Length:** One Semester

### **LAW111: Careers in Criminal Justice**

**Course Description:** 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 and impact their lives. Exciting online video journeys to an array of areas in the sociological world are an important component of this relevant and engaging course.

**Course Length:** One Semester

### **OTH039: Criminology**

**Course Description:** In the modern world, many citizens share a concern about criminal behaviors and intent. This course introduces students to the field of criminology, the study of crime. Students look at possible explanations for crime from psychological, biological, and sociological perspectives; explore the categories and social consequences of crime; and investigate how the criminal justice system handles criminals and their misdeeds. The

course explores some key questions: Why do some individuals commit crimes while others do not? What aspects of culture and society promote crime? Why are different punishments given for the same crime? What factors—from arrest to punishment—help shape the criminal case process?

**Course Length:** One Semester

#### **OTH091: Law and Order**

**Course Description:** Every society has laws that its citizens must follow. From traffic laws to regulations on how the government operates, laws help provide society with order and structure. Our lives are guided and regulated by our society's legal expectations. Consumer laws help protect us from faulty goods; criminal laws help protect society from individuals who harm others; and family law handles the arrangements and issues that arise in areas like divorce and child custody. This course focuses on the creation and application of laws in various areas of society. By understanding the workings of our court system, as well as how laws are actually carried out, students become more informed and responsible citizens.

**Course Length:** One Semester

#### **TCH105: Computer Literacy**

**Course Description:** In this introductory course, students become familiar with the basic principles of a personal computer, including the internal hardware, operating system, and software applications. Students gain practice in using key applications such as word processing, spreadsheet, and presentation software, as well as understand social and ethical issues around the Internet, information, and security.

**Course Length:** One semester

#### **TCH114: Microsoft Office 1**

**Course Description:** This course is a Project Based Learning course (PBL). 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office II must be taken Semester II and a grade of C or above must be earned for both courses.

#### **TCH115: Microsoft Office 2**

**Course Description:** This course is a Project Based Learning course (PBL). This course is for students who wish to learn core skills in Microsoft Excel, and Access. Students work through hands-on 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.

**Course Length:** One semester

**Notes:** Dual Credit can be earned through Madison College for 2 credits if final grade is C or above. Microsoft Office I must be taken Semester II and a grade of C or above must be earned for both courses.

#### **TCH220: Computer Science Principles**

**Course Description:** TCH220-PBL Computer Science Principles is a CodeHS course that introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. The course utilizes a project-based learning approach.

With a unique focus on creative problem solving and real-world applications, the CodeHS Computer Science Principles course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field.

**Course Length:** One semester

### **TCH553: Cyber Security**

**Course Description:** TCH553 Cybersecurity is a CodeHS course that teaches students foundational cybersecurity topics including digital citizenship and cyber hygiene, the basics of cryptography, software security, networking fundamentals, and basic system administration. Students will complete projects at the end of each module, and a culminating course project completing a simulated hack walkthrough. Students will learn basic SQL, and will utilize basic HTML and JavaScript within specific contexts and will be provided supports within those contexts.

**Course Length:** One semester