

Cyber Academy of South Carolina

**SY22-23 HIGH SCHOOL**



**COURSE CATALOG**

Current Course Offerings and Descriptions

FALL Semester 2022

### **K12 Summit Curriculum**

The K12 Summit Curriculum takes our award-winning curriculum to new heights and transform learning by providing an inviting, intuitive, and informative experience that inspires results through rich and engaging course content, differentiated instruction, and standards and assessment mastery support, while also providing teachers with the data visibility and efficiencies they need to effectively drive instruction. The high school courses available this school year are Algebra 1, Geometry, Algebra 2, and English 9–10.

## K12 Career Readiness

This year, we continue to add many additional Career Readiness (CTE) and STEM courses to our catalog. These courses are designed to improve student understanding of the career fields available to them, and to help them get ahead in STEM. Some programming courses have been updated to offer the best possible experience. The CTE courses being introduced this school year are:

- **Business Management & Administration**
- **Education & Training**
- **Health Science**
- **Information Technology**
- **Finance**
- **Marketing**

## Course Subject Headings (Table of Contents)

<b>ENGLISH</b>	<b>2</b>
<b>MATHEMATICS</b>	<b>6</b>
<b>CHEMISTRY</b>	<b>14</b>
<b>HISTORY</b>	<b>19</b>
<b>WORLD LANGUAGE</b>	<b>25</b>
<b>PHYSICAL EDUCATION</b>	<b>27</b>
<b>FINE ARTS ELECTIVES</b>	<b>28</b>
<b>CAREER AND TECHNOLOGY EDUCATION (CTE)</b>	<b>29</b>
<b>ADDITIONAL ELECTIVES</b>	<b>39</b>

## ENGLISH

### **ENG108: SUMMIT ENGLISH 9 - *English I 302401CW***

K12's English 9 Summit 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, informative, and argument writing. Students also develop and deliver presentations and participate in discussions with their peers.

### **ENG109: ENGLISH 9 HONORS - *English I Honors 302400HW***

K12 Summit Curriculum K12's English 9 Honors Summit 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, informative, and argument writing. Students also develop and deliver presentations and participate in discussions with their peers. This course includes all the topics in ENG108 as well as several extension activities. Each semester also includes an independent honors project.

### **ENG106: SUMMIT ENGLISH 9 (CREDIT RECOVERY) - *English I CR 3024CRCW***

The Summit English 9 Credit Recovery course is a flexible online course designed for students who need to retake the course, catch up to classmates, or earn the credits necessary to graduate on-time. The 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. Examples of works studied include “The Black Cat,” “Ain’t I a Woman?” “Nothing Gold Can Stay,” and the novel *The Alchemist*. Students also learn about the formal writing process as they write a literary analysis essay.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation.

### **ENG208: SUMMIT ENGLISH 10 -English II 302501CW**

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.

**Prerequisite:** ENG108: English 1

### **ENG209: SUMMIT ENGLISH 10 HONORS - English II Honors 302500HW**

The Summit English 10 Honors 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, informative, and argument writing. Students also develop and deliver presentations and participate in discussions with their peers.

This course includes all the topics in Summit English 10, as well as an independent honors project in each semester.

**Prerequisite:** ENG108: English 1

## ENG206: SUMMIT ENGLISH 10 (CREDIT RECOVERY) - English II CR 3025CRCW

The Summit English 10 Credit Recovery course is a flexible online course designed for students who need to retake the course, catch up to classmates, or earn the credits necessary to graduate on-time. The 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. Examples of works studied include “The Pit and the Pendulum,” poems by Lord Byron and Ezra Pound, Nixon’s resignation speech, and the memoir *Night*. Students also learn about the formal writing process as they write a literary analysis essay.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation

## ENG303: SUMMIT AMERICAN LITERATURE - English III 302601CW

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.

**Prerequisite:** ENG208: English II

## ENG304 Summit American Literature Honors - English III Honors 302600HW

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.

This course includes all the topics in Summit English 11, as well as an independent honors project in each semester.

**Prerequisite:** ENG208: English II

### **ENG306: SUMMIT AMERICAN LITERATURE (CREDIT RECOVERY) - *English III CR 3026CRCW***

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 literature provides critical writing opportunities. Students develop vocabulary skills and refresh knowledge of grammar, usage, and mechanics in preparation for standardized tests. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **ENG403: SUMMIT BRITISH AND WORLD LITERATURE - *English IV 302701CW***

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. They complete guided and independent writing assignments that refine their analytical skills with opportunities for creative expression in projects of their choice. Practice of test-taking skills for standardized assessments in critical reading and writing.

**Prerequisite:** ENG303: English III

## **ENG404: SUMMIT HONORS BRITISH AND WORLD LITERATURE - *English IV Honors 302700HW***

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

**Prerequisite:** ENG303: English III

## **ENG406: SUMMIT BRITISH AND WORLD LITERATURE (CREDIT RECOVERY) 3027CRCW**

This course engages students in selections from British and world literature from the ancient world through modern times. They practice analytical writing and have opportunities for creative expression. Students also practice critical reading and writing test-taking skills. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation.

## **MATHEMATICS**

### **MTH128: FOUNDATIONS SUMMIT ALGEBRA I – *Foundations in Algebra 411600CW***

The Foundations Summit Algebra I 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.

### **MTH126: FOUNDATIONS SUMMIT ALGEBRA I (CREDIT RECOVERY) - *Foundations in Algebra CR 4116CRCW***

The Foundations in Algebra Credit Recovery course leads students from their proficiency and understanding of numbers and operations into the mathematics of algebraic thinking. Building on pre-algebra skills developed in middle school, students deepen their understanding of linear expressions and equations, linear inequalities, and coordinate graphing. They then explore and learn about the function concept, radical expressions, exponential expressions and functions, quadratic functions, systems of equations, factoring and roots of equations, and basic statistical analysis.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **MTH128: INTERMEDIATE SUMMIT ALGEBRA I -*Intermediate Algebra I 411700CW***

The Intermediate Summit Algebra I 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.

**Prerequisite:** MTH128: Foundations in Algebra

## **MTH126: INTERMEDIATE SUMMIT ALGEBRA I (CREDIT RECOVERY) - Intermediate Algebra I 4117CRCW**

The Foundations in Intermediate Algebra Credit Recovery course leads students from their proficiency and understanding of numbers and operations into the mathematics of algebraic thinking. Building on pre-algebra skills developed in middle school, students deepen their understanding of linear expressions and equations, linear inequalities, and coordinate graphing. They then explore and learn about the function concept, radical expressions, exponential expressions and functions, quadratic functions, systems of equations, factoring and roots of equations, and basic statistical analysis.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation

## **MTH128: SUMMIT ALGEBRA I - Algebra I 411400CW**

The Summit Algebra I 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.

## **MTH129: SUMMIT ALGEBRA I HONORS - Algebra I Honors 411401HW**

K12's Summit Algebra I 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.

## **MTH126: SUMMIT ALGEBRA I (CREDIT RECOVERY) - *Algebra I CR 4114CRCW***

The Algebra I Credit Recovery course leads students from their proficiency and understanding of numbers and operations into the mathematics of algebraic thinking. Building on pre-algebra skills developed in middle school, students deepen their understanding of linear expressions and equations, linear inequalities, and coordinate graphing. They then explore and learn about the function concept, radical expressions, exponential expressions and functions, quadratic functions, systems of equations, factoring and roots of equations, and basic statistical analysis.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

## **MTH208: SUMMIT GEOMETRY - *Geometry 412200CW***

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.

**Prerequisite:** MTH128: Algebra I

## **MTH209: SUMMIT GEOMETRY HONORS - *Geometry Honors 412201HW***

This Summit Geometry Honors 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. This course includes all the topics in MTH208 as well as several extension activities. Each semester also includes an independent honors project.

**Prerequisite:** MTH128: Algebra I

### **MTH206: SUMMIT GEOMETRY CREDIT RECOVERY - *Geometry CR 4122CRCW***

This Geometry course combines mathematical reasoning and proof with an extension of students' algebraic development in geometric contexts. The course focuses primarily on two-dimensional shapes in the Euclidean plane. Starting with segments and angles, students develop understanding of and work through problems and proofs involving congruence, similarity, parallel and perpendicular lines, quadrilaterals, and circles. Toward the end of the course, time is also spent extending the treatment of triangles into basic trigonometry concepts and providing students with a detailed taste of analytic geometry by developing and using the equation of a circle in the coordinate plane.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation

### **MTH308: SUMMIT ALGEBRA II - *Algebra II 411500CW***

This Summit Algebra II 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.

**Prerequisite:** MTH128: Algebra I

### **MTH309: SUMMIT ALGEBRA II HONORS - *Algebra II Honors 411500HW***

This Summit Algebra II Honors 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.

This course includes all the topics in MTH308 as well as several extension activities. Each semester also includes an independent honors project.

**Prerequisite:** Algebra 1 and Geometry (or equivalents)

### **MTH306: SUMMIT ALGEBRA II (CREDIT RECOVERY) - *Algebra II CR 4115CRCW***

The Algebra 2 course builds on the mathematical proficiency and reasoning skills developed in Algebra 1 and Geometry to lead students into advanced algebraic work. The course emphasizes the concept of functions throughout. Sandwiched between short forays into probability and statistics is a thorough treatment of linear, quadratic, higher-degree polynomial, exponential, logarithmic, and trigonometric functions, with emphasis on analysis, problem solving, and graphing. Toward the end of the course, an introduction to sequences and series is presented in preparation for future work in mathematics.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **MTH307B: SUMMIT PRACTICAL MATH - *Discrete Math 414200CW***

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.

**Prerequisite:** Algebra I and Geometry

### **MTH307B: SUMMIT PRACTICAL MATH (CREDIT RECOVERY) - *Discrete Math CR 4142CRCW***

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.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **MTH413: SUMMIT PROBABILITY AND STATISTICS - *Probability and Statistics 414100CW***

Students learn counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression. Proficiency is measured through frequent online and offline assessments, as well as asynchronous discussions. Problem-solving activities provide an opportunity for students to demonstrate their skills in real-world situations.

**Prerequisite:** MTH302: Algebra II (or equivalent)

### **MTH413: SUMMIT PROBABILITY AND STATISTICS (HONORS) - *Probability and Statistics Honors 414110HW***

Students learn counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression. Proficiency is measured through frequent online and offline assessments, as well as asynchronous discussions. Problem-solving activities provide an opportunity for students to demonstrate their skills in real-world situations.

### **MTH413: SUMMIT PROBABILITY AND STATISTICS (CREDIT RECOVERY) - *Probability and Statistics CR 4141CRCW***

Students learn counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression. Proficiency is measured through frequent online and offline assessments, as well as asynchronous discussions. Problem-solving activities provide an opportunity for students to demonstrate their skills in real-world situations.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **MTH403B: SUMMIT PRE-CALCULUS - *Pre-Calculus 413101HW***

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.

**Prerequisite:** MTH302: Algebra II Honors (or equivalent)

## CHEMISTRY

### **SCI106: SUMMIT PHYSICAL SCIENCE (CREDIT RECOVERY) - *Physical Science CR 3211CRCW***

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. They review strategies for describing and measuring scientific concepts. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **SCI010: ENVIRONMENTAL SCIENCE - *Environmental Science 326100CW***

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.

### **SCI010: ENVIRONMENTAL SCIENCE (CREDIT RECOVERY) - *Environmental Science CR 3261CRCW***

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.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **SCI530: AP ENVIRONMENTAL SCIENCE - *AP Environmental Science 327700AW***

AP Environmental Science is a one-semester introductory college-level science

course. 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.

**Prerequisite:** SCI204: Biology Honors and SCI304: Chemistry Honors

### **SCI203: SUMMIT BIOLOGY - *Biology 1 322100CW***

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 laboratory experiments students can conduct at home.

### **SCI204: SUMMIT BIOLOGY HONORS - *Biology Honors 322100HW***

This course provides students with a challenging honors-level biology curriculum, focusing on the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of advanced online lessons, including extensive animations, an associated reference book, collaborative explorations, and laboratory experiments students can conduct at home. Honors activities include debates, research papers, and extended laboratories.

**Prerequisite:** Middle School Life Science (or equivalent), success in previous science course; and teacher/school counselor recommendation

### **SCI206: SUMMIT BIOLOGY (CREDIT RECOVERY) - *Biology CR 3221CRCW***

Topics include the scientific method, characteristics of living things, energy, organic compounds, and water. Students review the structure and function of living things, the cell, genetics, DNA, RNA, and proteins. They review evolution and natural selection; digestive, respiratory, nervous, reproductive, and muscular systems; and ecology and the environment. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation

### **SCI113: SUMMIT EARTH SCIENCE - *Earth Science 326500CW***

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

### **SCI116: SUMMIT EARTH SCIENCE (CREDIT RECOVERY) - *Earth Science CR 3265CRCW***

This course provides students with a comprehensive earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of in-depth online lessons, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home. The course prepares students for further studies in geology, meteorology, oceanography, and astronomy courses, and gives them practical experience in implementing

scientific methods. Diagnostic tests assess current knowledge and generate study plans to focus on topics that need review.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **SCI303: SUMMIT CHEMISTRY - *Chemistry 1 323100CW***

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.

**Prerequisite:** SCI203: Biology I

### **SCI304: SUMMIT CHEMISTRY HONORS - *Chemistry 1 Honors 323100HW***

This advanced course gives students a solid basis to move on to more advanced courses. The challenging course surveys atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry, enhanced with challenging model problems and assessments. Students complete community-based written research projects treating aspects of chemistry that require individual research and reporting and participate in online threaded discussions.

**Prerequisite:** SCI203: Biology I

### **SCI306: SUMMIT CHEMISTRY (CREDIT RECOVERY) - *Chemistry CR 3231CRCW***

This comprehensive 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 and laboratories. Diagnostic tests assess current knowledge and generate individualized study plans to focus on topic reviews.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **SCI403: SUMMIT PHYSICS - *Physics 324100CW***

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.

**Prerequisite:** SCI303: Chemistry

### **SCI404: SUMMIT PHYSICS HONORS - *Physics Honors 324100HW***

This advanced course surveys 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. Additional honors assignments include debates, research papers, and extended laboratories. The course gives a solid basis for moving on to more advanced college physics courses. The program consists of online instruction, and related assessments, plus an associated problem-solving book.

**Prerequisite:** SCI303: Chemistry

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## HISTORY

### **HST213: SUMMIT GEOGRAPHY - *Human Geography 330700CW***

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.

### **HST213: SUMMIT GEOGRAPHY - *Human Geography Honors 330700HW***

This course examines a broad range of geographical perspectives covering all 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.

### **HST216: SUMMIT GEOGRAPHY (CREDIT RECOVERY) – *Human Geography CR 3307CRCW***

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 list in English and Spanish support reading comprehension.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **HST103: SUMMIT WORLD HISTORY – *Modern World History 330600CW***

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 K12. 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.

### **HST104: SUMMIT WORLD HISTORY HONORS – *Modern World History Honors 583401HW***

In this challenging 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 K12. Students are challenged to consider topics in-depth as they analyze primary sources and maps, create timelines, and complete other projects—practicing advanced historical thinking and writing skills as they explore the broad themes and big ideas of human history. Students complete an independent honor project each semester.

## **HST106: SUMMIT WORLD HISTORY (CREDIT RECOVERY) - *Modern World History CR 3306CRCW***

In this survey of world history from prehistoric to modern times, students focus on the key 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 K12. Students 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. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation

## **HST303: SUMMIT U.S. HISTORY - *US History 332001CW***

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

## **HST304: SUMMIT U.S. HISTORY HONORS - *US History H 332001HW***

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.

### **HST306: SUMMIT U.S. HISTORY (CREDIT RECOVERY) - *US History CR 3320CRCW***

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.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **HST403: SUMMIT U.S. GOVERNMENT AND POLITICS - *Government 333000CH (.5 credit)***

This course studies the history, organization, and functions of the United States government. Beginning with the Declaration of Independence and continuing through to the present day, students explore the relationship between individual Americans and our governing bodies. Students take a close look at the political culture of our country and gain insight into the challenges faced by citizens, elected government officials, political activists, and others. Students also learn about the roles of political parties, interest groups, the media, and the Supreme Court, and discuss their own views on current political issues.

### **HST403: SUMMIT U.S. GOVERNMENT AND POLITICS - *Government Honors 333000HH (.5 credit)***

This course studies the history, organization, and functions of the United States government. Beginning with the Declaration of Independence and continuing through to the present day, students explore the relationship between individual Americans and our governing bodies. Students take a close look at the political culture of our country and gain insight into the challenges faced by citizens, elected government officials, political activists, and others. Students also learn about the roles of political parties, interest groups, the media, and the Supreme Court, and discuss their own views on current political issues.

### **HST510: AP SUMMIT U.S. GOVERNMENT AND POLITICS - *AP Government ????????***

AP Government & Politics

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.

**Prerequisite:** HST304: Honors U.S. History

### **HST406: SUMMIT U.S. GOVERNMENT AND POLITICS (CREDIT RECOVERY) - *Government CR 3330CRCH (.5 credit)***

This course studies the history, organization, and functions of the United States government. Beginning with the Declaration of Independence and continuing through to the present day, students explore the relationship between individual Americans and our governing bodies. Students take a close look at the political culture of our country, and gain insight into the challenges

faced by citizens, elected government officials, political activists, and others. Students also learn about the roles of political parties, interest groups, the media, and the Supreme Court. They discuss their own views on current political issues. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

### **HST413: SUMMIT U.S. AND GLOBAL ECONOMICS – *Economics and Personal Finance 330800CW (.5 credit)***

In this course on economic principles, students explore choices they face as producers, consumers, investors, and taxpayers. Students apply what they learn to real-world simulation problems. Topics of study include markets from historic and contemporary perspectives; supply and demand; theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; money (what it is, how it evolved, the role of banks, investment houses, and the Federal Reserve); Keynesian economics; how capitalism functions, focusing on productivity, wages, investment, and growth; issues of capitalism such as unemployment, inflation, and the national debt; and a survey of markets in such areas as China, Europe, and the Middle East.

### **HST413: SUMMIT U.S. AND GLOBAL ECONOMICS (HONORS) – *Economics and Personal Finance Honors 330803HH***

In this course on economic principles, students explore choices they face as producers, consumers, investors, and taxpayers. Students apply what they learn to real-world simulation problems. Topics of study include markets from historic and contemporary perspectives; supply and demand; theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; money (what it is, how it evolved, the role of banks, investment houses, and the Federal Reserve); Keynesian economics; how capitalism functions, focusing on productivity, wages, investment, and growth; issues of capitalism such as unemployment, inflation, and the national debt; and a survey of markets in such areas as China, Europe, and the Middle East.

## HST416: SUMMIT U.S. AND GLOBAL ECONOMICS (CREDIT RECOVERY) – Economics and Personal Finance CR 3308CRCH (.5 credit)

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 how the U.S. economy has a global impact. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit and teacher/school counselor recommendation.

## WORLD LANGUAGE

### WLG100A: SPANISH I - *Spanish I 365100CW*

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.

## **WLG100B: SPANISH II - *Spanish II 365200CW***

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.

**Prerequisite:** WLG100A: Spanish 1

## **WLG200: SPANISH II - *Spanish III Honors 365302HW***

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.

**Prerequisite:** WLG100B: Spanish II

## **WLG300: SPANISH III - *Spanish IV Honors 365410HW***

The AP® 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® Spanish Language and Culture course prepares students for the AP® 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.

**Prerequisite:** WLG300: Spanish III

## **PHYSICAL EDUCATION**

### **OTH020A: SUMMIT PHYSICAL EDUCATION - *Physical Education I 344100CW***

This 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 personal health, injury prevention, nutrition and diet, and stress management.

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## **OTH020B: SUMMIT PHYSICAL EDUCATION (ELECTIVE) - *Physical Education II 344200CW***

This course combines online instructional guidance with student participation in weekly cardiovascular, aerobic, muscle-toning, and other activities. In this course, students will create a personal fitness plan and work to increase cardiovascular health, endurance and flexibility. Students will learn about physical and team sports, career options and the importance of lifetime fitness

## **FINE ARTS ELECTIVES**

### **ART010A: SUMMIT FINE ART ELECTIVE - *Art 350100CW***

This course combines art history, appreciation, and analysis, while engaging students in hands-on creative projects. Students will gain an in-depth understanding of the elements and principles of art design. Lessons introduce major periods and movements in art history from the ancient times to the Renaissance while focusing on the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.

### **ART010B: SUMMIT FINE ART ELECTIVE - *Art 2 350200CW***

This course combines art history, appreciation, and analysis, while engaging students in hands-on creative projects. Lessons introduce major movements in art history, including the Baroque, Romantic, Realist and Post-Impressionism time periods. While embracing these historical movements, students will also focus on the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.

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### **ART020A: SUMMIT MUSIC APPRECIATION ELECTIVE - *Music Appreciation 1 356100CW***

This course introduces students to the history, theory, and genres of music. Basic music theory concepts will be covered, as well as early musical forms, classical music, patriotic and nationalistic music, and twentieth-century music. The course explores the history of music, from the surviving examples of rudimentary musical forms through to contemporary pieces from around the world.

### **ART020B: SUMMIT MUSIC APPRECIATION ELECTIVE - *Music Appreciation 2 356201CW***

This course introduces students to the history, theory, and genres of music. Modern music traditions will be presented, including American jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop. The course explores the history of music, from the surviving examples of rudimentary musical forms through to contemporary pieces from around the world.

## **CAREER AND TECHNOLOGY EDUCATION (CTE)**

### **OTH092: HEALTH SCIENCE I - *DYN Health Science I 555088CW***

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.

**\*NOTE:** *This course will not satisfy the South Carolina Computer Science requirement for graduation*

## **OTH094: HEALTH SCIENCE 2 - DYN Health Science II 555189CW**

In this course, students will learn more about what it takes to be a successful health science professional, including how to communicate with patients. Students will explore the rights and responsibilities of both patients and health sciences professionals in patient care and learn more about how to promote wellness among patients and health care staff. Finally, students will learn more about safety in health sciences settings and the challenges and procedures of emergency care, infection control, and blood-borne pathogens. Students are expected to fulfill the requirement of at least two face-to-face meetings for skills instruction.

**\*NOTE:** This course will not satisfy the South Carolina Computer Science requirement for graduation

**Prerequisite:** OTH092: Health Science 1

## **SCI330A: ANATOMY AND PHYSIOLOGY - Health Science 3 555201CW**

The course provides a thorough introduction to the basics required for the study of the human body and how it functions. This course walks students step by step from a general introduction to life functions, the terminology, and phonetic pronunciations used to describe body parts and their locations, to an overall review of human development and body processes. In addition, diseases and disorders are integrated throughout the course, to link physiology with anatomy.

**\*NOTE:** This course will not satisfy the South Carolina Computer Science requirement for graduation

**Prerequisite:** OTH092: Health Science 1

## **HLT213: MEDICAL TERMINOLOGY I – Medical Terms 554002CW**

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.

**\*NOTE:** This course will not satisfy the South Carolina Computer Science requirement for graduation

**Prerequisite:** OTH092: Health Science 1

### **BUS113: ACCOUNTING 1 - Accounting 500101CW**

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.

### **BUS022: THE ADMINISTRATIVE PROFESSIONAL - Admin Support Technology 512200CW**

This course prepares students for employment in today's global environment which is increasingly dynamic and digital. This course emphasizes the importance of understanding employers' expectations; building confidence; and developing the knowledge and skills necessary to become strong, competent employees and leaders. Using interactive and engaging content, students learn skills needed in the workplace, such as being professional, working ethically, working as a team, and developing customer focus. In addition, students learn key communication skills, records management, and how to prepare for successful employment.

### **BUS071: ADVERTISING AND SALES PROMOTION - Advertising 547000CW**

What comes to mind when you think of marketing? Does a favorite commercial jingle begin to play in your head? Or do you recall the irritating phone call from a company trying to sell you software you already have? No matter what your feelings are about it, there's no denying the sheer magnitude of the marketing industry. Every year companies spend \$200 billion promoting their products and services—and that's in the United States alone! Experts estimate that by the time you turn 65, you will have seen nearly 2 million TV commercials, not to mention radio ads, billboards,

and online advertisements. You're familiar with what it's like on the receiving end of a company's marketing efforts, but what's it like on the other side? In this Advertising and Sales Promotions course, you'll learn how marketing campaigns, ads, and commercials are conceived and brought to life. You'll meet some of the creative men and women who produce those memorable ads and commercials. And you'll discover career opportunities in the field to help you decide if a job in this exciting, fast-paced industry is in your future!

### **BUS030: SUMMIT PERSONAL FINANCE - *Business Finance 527300CW***

In this introductory finance course, students learn basic principles of economics and best practices for managing their own finances. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems so they can better understand their role in the economy of society. Students are inspired by experiences of finance professionals and stories of everyday people and the choices they make to manage their money.

### **BUS032: SUMMIT INTRODUCTORY FINANCE - *Personal Finance 513101CW***

Understanding financial management concepts is an important life skill. From credit to insurance to taxes, it is imperative that students understand the consequences of their choices. Wisely managing their money, students become citizens that are more responsible. A thorough understanding of financial concepts, with practical application through activities and projects, will enable students to leave this course with applicable, useful skills for life. This course surveys the basic personal financial needs of most individuals and emphasizes the basics of budgeting, saving, checking, investments, credit, the wise use of insurance, and paying and preparing income tax returns. After high school, students face a world filled with possibilities, and the more knowledge they can acquire, the higher the probability that their financial future will be secure. Students taking this course will learn to better prepare for their financial futures.

### **TCH323A: JAVA PROGRAMMING 1 - *Computer Programming 1 505000CW***

The course introduces beginning programmers to the power of Java with engaging hands-on projects. In this course, even first-time programmers create useful programs while learning the basic principles of structured and object-oriented programming. The course incorporates topics such as using data, methods, classes, objects, looping, strings, arrays, inheritance, exception handling, GUI, and graphics.

*NOTE: This course will satisfy the South Carolina Computer Science requirement for graduation.*

**Prerequisite:** TCH020: Computer Fundamentals

## **TCH323B: JAVA PROGRAMMING 2 - Computer Programming II 505100CW**

This is the second level of the Programming sequence. The course continues to introduce beginning programmers to the power of Java with engaging hands-on projects. In this course, even first-time programmers create useful programs while learning the basic principles of structured and object-oriented programming. The course incorporates topics such as using data, methods, classes, objects, looping, strings, arrays, inheritance, exception handling, GUI, and graphics.

**Prerequisite:** TCH323: Java Programming 1

## **TCH028: PBL DIGITAL ARTS 1 - Digital Publishing Design 517600CW**

This course is a Project Based Learning course (PBL). In this exploratory course, students learn the elements and principles of design, as well as foundational concepts of visual communication. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they've learned. They learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.

## **BUS045: PBL ENTREPRENEURSHIP I - Entrepreneurship 540000CW**

This course is a Project Based Learning course (PBL). In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to

start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to develop new business ideas, attract investors, market their business, and manage expenses.

## **TCH220: PBL COMPUTER SCIENCE PRINCIPALS - *Fundamentals of Computing 502301CW***

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

*\*NOTE: This course will satisfy the South Carolina Computer Science requirement for graduation.*

## **TCH035: PBL IMAGE DESIGN AND EDITING - *Image Editing 534001CW***

This introductory design course is for students who want to create compelling, professional-looking graphic designs and photos. Students learn the basics of composition, color, and layout through the use of hands-on projects that allow them to use their creativity while developing important foundational skills. They use GIMP software to create a graphic design portfolio with a wide variety of projects involving the mastery of technical topics such as working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. The projects help students develop the skills they need to create and edit images of their own.

**System Requirements:** Microsoft® Windows XP® or higher, or Mac® OS X® operating system; 400 MHz or faster processor; 512 MB of memory (RAM); at least 2 GB of hard drive space; Adobe® Reader®; the most current Adobe® Flash® Player

## **TCH105: PBL COMPUTER LITERACY - *Integrated Business Applications 1*** **502002CW**

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, spreadsheets, and presentation software, as well as understanding social and ethical issues around the internet, information, and security.

## **TCH040: WEB DESIGN I - *Fundamentals of Web Page Design and Development*** **503102CW**

This course provides a comprehensive introduction to the essentials of web design, from planning page layouts to publishing a complete site to the web. Students learn how to use HTML to design their own web pages. The course covers basic HTML tags for formatting text as well as more advanced tags. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools.

**System Requirements:** Microsoft® Windows XP® or higher, or Mac® OS X® operating system; 400 MHz or faster processor; 512 MB of memory (RAM); at least 2 GB of hard drive space; Adobe® Reader®

**\*NOTE:** This course will satisfy the South Carolina Computer Science requirement for graduation

**Prerequisite:** TCH020: Fundamentals of Computing

## **TCH047: PBL WEB DESIGN I - *Advanced Web Page Design & Development*** **503300CW**

This course is designed to teach students to build effective websites using real-world case scenarios. Each tutorial is based on a case problem that leads students through the creation of a website while they master new techniques and complex concepts. The course covers concepts such as page layout, basic graphic design, mobile design, working with tables and columns,

designing forms, using multimedia, JavaScript, and exploring arrays, loops and conditional statements.

**Prerequisite:** TCH040: Fundamentals of Web Page Design

### **TCH071: Game Design 1 – Game Design & Development 535200CW**

Game Design and Development provides students with the opportunity to design and develop fully functional video games with product design documentation. This course emphasizes game control and logic, design tools, and the physics of games using computer programming.

### **TCH083: Animation - Foundations of Animation: 535000CW**

This course prepares students to use artistic and technological foundations to create animations. The basic principles of digital animation are reviewed, including character development and story conception through production. Students learn the technical language used in the animation industry and basic animation methods. They will also learn techniques about various ways to plan, create, and prepare for animation in pre-production, production, and post-production.

### **OTH 060: FAMILY AND CONSUMER SCIENCE – Family and Consumer Science Education I - *Child Development* 580800CW**

In this course, students develop skills and knowledge to help them transition into adult roles within the family. They learn to make wise consumer choices, prepare nutritious meals, contribute effectively as part of a team, manage a household budget, and balance roles of work and family. They gain an appreciation for the responsibilities of family members throughout the life span and the contributions to the well-being of the family and the community.

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## **OTH110: UNDERSTANDING CHILD DEVELOPMENT - *Child Development 580001CW***

This course introduces students to the unique qualities of young children from infants to age eight and demonstrates how to work with each child in ways that correspond with their developmental level, and their social and cultural environment. The course includes learning theories and research as well as information about the importance of play and technology in a young child's learning process. Other topics covered include readiness, assessment, working with children and families from diverse cultures, working with children with special needs, and the early stages of reading, writing, and general cognitive development.

## **OTH090: LIFE SKILLS - *Human Develop: Responsible Life Choices I 583401CW***

This elective is designed to increase students' knowledge of and ability in using the skills necessary for everyday living. Life Skills emphasizes defining personal values, goal setting and planning, and solving problems. Instructional material focuses on dealing with media and peer pressure, communicating and relationships, working with others, avoiding and/or resolving conflict, decision-making, wellness and personal safety, aspects of good citizenship, environmental awareness, and how students can contribute to their own community. The course is organized in six units that cover the following topics: Course Introduction, Thinking for Yourself, Taking Care of Yourself, Caring for Your Relationships, and Caring about Your World.

## **OTH111: INTRODUCTION TO TEACHING - *Intro Teach I 570300CW***

This course exposes students to the realities of teaching while inspiring and welcoming them to a rewarding, high-impact career. Students reflect on the satisfaction and problems of teaching. Course content includes a balanced look at accountability issues such as standards, high stakes testing and reform. Other topics include technology, cheating, bullying, sexual harassment and homophobia, diversity, vouchers, and legal issues.

**Prerequisite:** OTH110: Child Development

## **CS-TEACHING 2A: CS-TEACHING 2A - Intro Teach II 570400CW**

Introduction to Teaching Level 2 is an advanced level course that builds on skills developed in Introduction to Teaching Level 1. Students develop a higher level of proficiency through authentic learning experiences. Students plan engaging lessons, enhance communication and presentation skills, explore school-societal relationships, and exhibit professionalism. Technology is integrated throughout the course work. Participation in student organizations (FEA) Future Educators Association and (FCCLA) Family, Careers, Community, Leaders of America greatly enhance the learning experience.

**Prerequisite:** OTH111A: Intro to Teaching I

## **CAR010: BUSINESS AND HEALTHCARE EXPLORATIONS – *Professional and Leadership Development (Leadership) 517800CW***

In this course students explore basic concepts in the broad areas of business and healthcare, as well as career options in each area.

**Business:** How do business ideas become businesses? How are products marketed? How do you know if a business is making or losing money? These are among the questions that students explore in the business portion of this course. In addition to studying concepts of entrepreneurship, accounting and marketing, students explore these concepts on scales that range from a single person to nations.

**Healthcare:** 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.

### **BUS033: CONSUMER BEHAVIOR - *Marketing Analytics 542300CW***

This course draws key concepts from marketing, psychology, sociology, and anthropology to present a strong foundation and highly practical focus on real-world applications for today's global business environment. This course incorporates current business practices, including extensive coverage of social media influences, increased consumer power, and emerging neuroscience findings. Students also examine controversies in consumer decision-making involving money, goals, emotions, charity, health, materialism, and sustainability. This edition increases its emphasis on social responsibility and ethics in marketing, examining both the dark side and constructive possibilities.

### **BUS065: PBL MARKETING I - *Marketing 542101CW***

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.

**Prerequisite:** BUS071: Advertising

## **ADDITIONAL ELECTIVES**

### **CAR100: SUMMIT CAREER PLANNING - *Career Internship 1 379983CW***

Students use an informative interactive process to explore career and life options through their current place of employment. They begin with a thorough examination of their own interests, aptitudes, achievements, and personality styles. Instructional material then helps them match job market information, interview techniques, training requirements, and educational paths to potential careers that suit their strengths and personal priorities. Successfully completing this course gives students the ability to identify and describe their personal interests, aptitudes, and lifestyle goals; locate and evaluate information about different careers; identify the skills and knowledge needed for careers of interest and how to obtain them; and create entrepreneurial business plans.

**Prerequisite:** Student must be employed and able to complete 120 work hours in one school year.

## **CAR100: SUMMIT CAREER PLANNING - *Career Internship 2 379981CW***

Students use an informative interactive process to explore career and life options through their current place of employment. They begin with a thorough examination of their own interests, aptitudes, achievements, and personality styles. Instructional material then helps them match job market information, interview techniques, training requirements, and educational paths to potential careers that suit their strengths and personal priorities. Successfully completing this course gives students the ability to identify and describe their personal interests, aptitudes, and lifestyle goals; locate and evaluate information about different careers; identify the skills and knowledge needed for careers of interest and how to obtain them; and create entrepreneurial business plans.

**Prerequisite:** Students must be employed and able to complete 120 work hours in one school year.



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