Course Selection Manual

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2016-2017

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Course Quick Guide & Descriptions - Grades 9 Through 12

Dear Agora Students and Families:

As a high school student, one of the most important decisions with which you are faced each year is the selection of courses for the following year. Proper planning is critical if you are to prepare yourself adequately for your future goals whether they may include further education or immediate entry into the job market.

Planning should be a cooperative effort. As a student, you should not feel that you are alone in making your decision. Your counselors, teachers, and parents are ready and willing to help you with your decision; however, ultimately, the choice must be yours. When planning your schedule of courses, consider these four criteria:

Abilities: Carefully consider your academic record for the past several years. While your grades in middle school should not necessarily determine your academic program in high school, a review of your report cards should give you a good indication of your strengths and weaknesses. If you have consistently received "D's" in science, for example, you would probably be wise not to schedule more than the required number of courses in science unless you are willing to devote extra time and effort to your science classes. Conversely, if you have consistently received "A's" in science, you may want to schedule a minimum of one science course every year and even consider some of the advanced courses in that area.

Interests: A high school schedule provides an opportunity not only to prepare for your future but also to explore and develop your individual interests and abilities. If you have always enjoyed or have a specific interest in art, music, computers, or technology, you may want to take as many courses in these areas as you can schedule.

Goals: Ideally, your selection of courses in high school will be based upon future goals you have established for yourself. Good advice would be to remain flexible and try not to limit your future options when selecting courses.

Your Requirements: You should be aware of a number of course requirements when planning your schedule. This guide highlights required courses, the number of credits needed to graduate, and other key points.

I. INTRODUCTION

This Course Selection Manual contains the answers to most of the questions that may arise concerning the process of developing your schedule. Read all of the information carefully. For students currently enrolled, please look for announcements about live sessions about scheduling in the month of May. Student and parent/guardian attendance is highly recommended.

II. MISSION

The mission of the Agora Cyber Charter School is to provide an innovative, intensive academic preparation that inspires and educates students to achieve the highest levels of academic knowledge and skills.

Agora embraces a collaborative partnership between teachers and parents in order to empower students to reach extraordinary heights. Extraordinary results require extraordinary efforts! With commitment, hard work, consistency and responsibility, every student will meet the challenge of mastering high expectations.

III. GENERAL INFORMATION

In planning a program, students should carefully consider the following information:

A. Course Requirements

Ninth Grade – Class of 2020	
English*	1.00 credit
Social Studies*	1.00 credit
Math*	1.00 credit
Science*	1.00 credit
Physical Education	.50 credit
Health	.50 credit
World Language/Computer Literacy	.50-1.00 credit
Advisory	.25 credit
	5.75-6.25 credits

Tenth Grade – Class of 2019	
English*	1.00 credit
Social Studies*	1.00 credit
Math*	1.00 credit
Science*	1.00 credit
Physical Education	.50 credit
Humanities	1.00 credits
Advisory	.25 credit
	5.75 credits

Eleventh Grade – Class of 2018	
English*	1.00 credit
Social Studies*	1.00 credit
Math*	1.00 credit
Science*	1.00 credit
Physical Education or Nutrition	.50 credit
Humanities	1.00 credits
Advisory	.25 credit
	5.75 credits

Twelfth Grade – Class of 2017	
English*	1.00 credit
Electives	4.00 credits
Advisory	.25 credit
Graduation Project	.50 credit
	5.75 credits

**Course sequencing explained on p.8*

B. GRADUATION REQUIREMENTS

1. Graduation Project

The successful completion of a graduation project at Agora is a PA State mandated requirement for your graduation/diploma and is intended, at Agora, to be a project that consists of community service and/or job shadowing.

This project is meant to be an individualized learning experience used to represent the student's own area of interest. A successful project will benefit the future of the student and other students who view the final project presentation.

Once you have selected your location(s) for community service/job shadowing, you will have several main objectives to meet in order to successfully complete the senior project expectations.

The requirements for the 2016-2017 Graduation Project are:

- Meeting with Guidance Counselor (11th and 12th grade)
- Fall survey
- Completion of Community Service/Job Shadowing (20 hours total)
- A Post Graduation Plan Essay
- Spring Survey
- Additional requirements may be added to the course if deemed necessary.

*All parts of this project must be submitted in order to meet/pass the Graduation Project Requirement.

2. Course Requirements

Curricular Area	Credits Required
English	4
Social Studies	3
Science	3
Mathematics	3
PE/Health	2
Humanities/World Language	2
Electives and Graduation Project	5
TOTAL	**22**

* Beginning with the class of 2019, successful completion of the Keystone Exams will be required as per Pennsylvania Department of Education.

C. Grade Level Determination

Grade level will be determined based on the number of earned credits:

- 9th Grade – 0 to 4.99
- 10th Grade – 5 to 10.99
- 11th Grade - 11 to 15.99
- 12th Grade – 16 +

A minimum 22 credits must be earned prior to graduation to participate in graduation ceremonies.

FOR ALL STUDENTS:

Students who fall behind during their time in high school may be afforded the opportunity to take summer remedial courses where it is feasible and enrollment is sufficient to run such courses. Students are strongly encouraged to pass the courses taken during the school year. Agora cannot guarantee that all courses failed will be offered in summer school.

D. Make-Up of Failures

Failures may be made up in summer school if the course is offered. Required subjects must be repeated if failed. If needed, elective subjects may be made up to fulfill prerequisites or achieve

additional credits. Senior year exceptions, with prior administrative approval, will be considered.
Subjects failed by underclassmen in the fall semester may not be repeated during the spring semester of the same school year without administrative approval; however, successful summer school efforts will permit more flexibility in scheduling and will allow the student to stay on track toward graduation.

E. Changes in Schedule

It is important to emphasize to students that they and their parents should devote their most serious attention to the decision making process necessary for valid course selection.

ANY REQUESTS FOR SCHEDULE CHANGES MUST BE MADE BEFORE AUGUST 10. Schedule changes will be honored for students enrolled in summer school. However, once school has opened, any request for a change in a student's schedule will be handled on an individual basis and changes will be made only under the most extenuating circumstances. **Any drops one week beyond the course may only be dropped with the grade of an "F" unless administrative approval**.

F. Selection of Courses

Students are responsible for the selection of courses to fulfill graduation requirements and prepare them for future goals.

Courses listed in this booklet may be withdrawn/cancelled because too few students elected to enroll.

It likewise may be impossible to schedule all the courses requested by the student. Parents and students should plan for this contingency at the time of course selection by indicating suitable alternates.
All students will be placed in the appropriate core courses (Math, English, Social Studies, Science) based on sequence unless there are multiple choices available. All 9th grade students will have courses planned for them based on 8th grade teacher input or a previous school report card/transcript. Each year a student progresses in high school, they will have more courses to choose.

G. Late Enrollment

Students who enroll after the start of the school year may be limited in the course offerings available. Students should enroll with a copy of previous transcripts to ensure accuracy in the student's schedule. In addition, limited course offerings could result in a delay to anticipated graduation.

H. Course Sequencing

Course sequencing will follow the outlined below. The starting point for Math and English could vary based on previous middle school performance and/or Benchmarking testing results. For Social Studies and Science, the first course not completed on the list below will be the required placement. Credits needed per subject beyond the sequence may be chosen as long as the pre-requisite has been made.

ENGLISH	English Foundations	LAC1	LAC2*	American Literature	British Literature
SOCIAL STUDIES	World History (HS level)	US History (HS level)	Government/ Economics		
SCIENCE	Earth Science (HS level)	Biology*	Chemistry or Elective Science	Physics or Elective Science	
MATH	Math Foundations	Pre-Algebra/ MS Math 8	Algebra 1* / Developing Algebra	Geometry	Algebra 2/ Elective Math

*Keystone courses

IV. SPECIAL PROGRAMS

A. College Prep

The academic curriculum is designed for students who intend to enroll in a higher education program after high school graduation. Students need to consider carefully the particular type of program that they wish to pursue and the institutions that they wish to attend. Students interested in art, business, or technology education can prepare for college by taking certain Career Pathway subjects. It is the responsibility of students planning to enter college to complete a program of studies that will qualify them for admission. Program planning should be made in consultation with parents, teachers, and counselors. For a student planning to enter a four (4) year college, in addition to the required four (4) English and three (3) social studies courses, it is recommended the student earn a minimum of four (4) credits in academic mathematics, two (2) credits in academic lab science, and at least two (2) credits in the same foreign language.

B. ADVANCED PLACEMENT COURSES – GENERAL STATEMENT

*Advanced Placement (AP) courses are designed for the college-bound student. Such courses have very high academic standards and expectations. Indeed these courses are the equivalent of college level courses and can lead to credit being granted at the college level for the successful completion of the program and passing the AP Exam. A student who elects to take one or more of these courses does so with the understanding that there is a personal responsibility involved in attaining success in these courses. If there is assigned work, the student is expected to complete it on time. If there is a concern, the student is expected to contact the teacher prior to the deadline for the submission of work. Failure to do so may result in initial difficulty throughout the course.
It is important to note that as a culminating part of the AP program there is an exam that is offered to students to take which may help them obtain college credit when they apply to college. More information is available from the guidance counselor about course. The test is not a requirement, but we encourage our students to take advantage of this opportunity.

Please use the link: https://apstudent.collegeboard.org/exploreap to research potential courses and to see which colleges/universities may accept college credit for AP course and exam scores.

C. Keystone Exam Information for All Students

The Keystone Exams are end-of-course assessments designed to assess proficiency in specific Subject areas, as predetermined by the state. These exams are one component of Pennsylvania's new system of high school graduation requirements. In order to graduate, students in the class of 2019 are required to demonstrate proficiency on three Keystone Exams (Algebra I, Biology, Literature), successfully complete the graduation project, and meet the district's required graduation credits. Students not demonstrating proficiency will be provided with remediation.

V. Course Selection – Agora Community Portal

A. Accessing Agora's Community Portal

- To access the landing page for Agora's go to http://tinyurl.com/agoraportal. This is the same place you go to view report cards.

- All students in grades 6 to 12 have Community Portal accounts automatically created. You should not apply for a new account.

- If you forgot your username, password, or pin, please call the Agora Help Desk at 1-844-502-4672.

B. Completing the Course Request Form

- Once the Course Request window is open, you will see a message in your community portal stating the new form is available.

- You can access the Course Request Form on the left under "Student Backpack".

- Once you click the form, please read over the instructions and click "Fill Out Course Request Form"

- The Course Request form has multiple sections.
    - Required Courses – courses you are required to take to fulfill credit requirements. For example, you may need a Science course and will have a list of courses you may take to meet the requirement.
    - Mandatory Courses – courses you must take. These vary among grade level and will be automatically added to your schedule.
    - Elective Courses – Each department will be represented with courses you may take. More offerings are available in the higher grade levels. You should complete these requests by choosing electives that meet the graduation requirements.

- Courses highlighted in GREEN were pre-assigned based on a teacher recommendation. You have the ability to change this selection, but if you do nothing, this will be your assigned course.

- When selecting elective courses, please review the graduation requirements before selecting your course requests.

- In order to complete your requests, there is minimum and maximum number of credits you may request. These vary depending on grade level. Failure to request enough credits will result in your guidance counselor assigning you courses. In addition, if you exceed the maximum credits requested, your guidance counselor will need to remove requests.

- If there is a special request you have about a course or wish to request a course not listed, you may note this under special request. Please remember, this is a request and not a guarantee.

- When finished with your requests, you must click “Save Course Requests”

All yearlong courses are worth 1.0 credit and all semester courses are worth .5 credit.

Art & Music

ART010: Fine Art

This fast passed art course combines art history, appreciation, and analysis, while engaging students in hands-on creative projects. Lessons introduce major periods and movements in art history while focusing on masterworks and the intellectual, technical, and creative processes behind those works. Several studio lessons throughout the semester provide opportunities for drawing, painting, sculpting, and other creative endeavors.
Course Length: Yearlong
Suggested Grade: 10-12
Prerequisites: Introduction to fine arts (A or B) or a survey course in World History is recommended as a prerequisite or co-requisite.
Special Note: This course qualifies as a Humanities course

ART011: Foundations of Art A

Introduction to Art A is an exciting entry-level art appreciation courses. Within this one quarter courses you will look at the elements of art and design while engaging in an introductory exploration of the major art periods throughout time. Part A of the course will explore the Prehistoric through Renaissance art experience. Open ended sketchbook assignments and one studio project will provide students an opportunity to create artwork that helps you apply the elements, principles, and history learned within this exciting introductory course.
Course Length: One Semester
Suggested Grade: 10-12
Prerequisites: There are no prerequisites for this course; however Introduction to Arts serves as a prerequisite for Fine Arts and AP Art History.
Special Note: This course qualifies as a Humanities course

ART012: Foundations of Art B

Introduction to Art B is an exciting entry-level art appreciation courses. Within this one quarter courses you will look at the elements of art and design while engaging inan introductory exploration of the major art periods throughout time. Part B of the course will explore the Baroque through Modern art experience. Open ended sketchbook assignments and one studio project will provide students an opportunity to create artwork that helps you apply the elements, principles, and history learned within this exciting introductory course.
Course Length: One Semester
Suggested Grade: 10-12
Prerequisites: There are no prerequisites for this course; however Introduction to Arts serves as a prerequisite for Fine Arts and AP Art History.
Special Note: This course qualifies as a Humanities course.

ART020: Music Appreciation

This course expands on students' knowledge of the history, theory, and genres of music. The course explores the history of music, from the surviving examples of rudimentary musical forms through to contemporary pieces from around the world. The first semester covers early musical forms, classical music, and American jazz. The second semester presents modern traditions, including gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip hop. The course explores the relationship between music and social movements and reveals how the emergent global society and the prominence of the Internet are making musical forms more accessible worldwide.
To comply with certain state standards for the arts, a student "performance practicum" is required for full credit in this semester long course. The performance practicum requirement can be met through participation in supervised instrumental or vocal lessons, church or community choirs, community musical performances, or any other structured program that meets at regular intervals and provides opportunities for students to build vocal and/ or instrumental skills. Parents or guardians will be required to present their proposed practicum to the students' teachers for approval, and validate their children's regular participation in the chosen performance practicum.
Course Length: Yearlong
Suggested Grade: 10-12
Prerequisites: Introduction to Music (A or B) or other music background.
Special Note: This course qualifies as a Humanities course.

ART021: Foundations of Music A

Introduction to Music is an exciting entry-level course. Within this one-quarter course you will look into the basic history and genres of music. Part A covers early musical

forms through 20th century music. In this course we begin to explore how music relates to social, cultural, and historic movements and also how technology has affected music. Listening to music critically is an important skill. Listening is tracked and scored through a series of music logs, in which students must answer music related questions. Access to music selections and thoughtful music listening are required components of Music Appreciation.
Course Length: One Semester
Suggested Grade: 10-12
Prerequisites: There are no prerequisites for Introduction to Music however this course serves as a prerequisite for Music Appreciation.
Special Note: This course qualifies as a Humanities course.

ART022: Foundations of Music B

Introduction to Music is an exciting entry-level course. Within this one-quarter course you will look into the basic history and genres of music. Part B covers modern musical genres including jazz, gospel, folk, soul, blues, rock and roll, and hip hop. In this course we begin to explore how music relates to social, cultural, and historic movements and also how technology has affected music. Listening to music critically is an important skill. Listening is tracked and scored through a series of music logs, in which students must answer music related questions. Access to music selections and thoughtful music listening are required components of Music Appreciation.
Course Length: One Semester
Suggested Grade: 10-12
Prerequisites: There are no prerequisites for Introduction to Music however this course serves as a prerequisite for Music Appreciation.
Special Note: This course qualifies as a Humanities course.

Business

BUS030: Personal Finance

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.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: None

BUS040: Introduction to Entrepreneurship I

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 come up with new business ideas, attract investors, market their business, and manage expenses. Students hear inspirational stories of teen entrepreneurs who have turned their ideas into reality, and then they plan and execute their own business.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: None

BUS050: Introduction to Entrepreneurship II

Students build on the business concepts they learned in Introduction to Entrepreneurship I. They learn about sales methods, financing and credit, accounting, pricing, and government regulations. They refine their technology and communication skills in speaking, writing, networking, negotiating, and listening. They enhance their employability skills by preparing job-related documents, developing interviewing skills, and learning about hiring, firing, and managing employees. Students develop a complete business plan and a presentation for potential investors.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: Introduction to Entrepreneurship I

BUS090: Sports and Entertainment Marketing

Students who have wished to play sports professionally or who have dreamed of becoming an agent for a celebrity entertainer have an interest in sports and entertainment marketing. Although this particular form of marketing bears some resemblance to traditional marketing, there are many differences as well—including a lot more glitz and glamour! In this course, students have the opportunity to explore basic marketing principles and delve deeper into the multibillion-dollar sports and entertainment marketing industry. Students learn how professional athletes, sports teams, and well-known entertainers are marketed as commodities and how some of them become billionaires as a result. For students who have ever wondered about how things work behind the scenes of a major sporting event such as the Super Bowl or even entertained the idea of playing a role in such an event, this course introduces the fundamentals of such a career.
Course Length: One Semester
Suggested Grade: 11-12
Materials: None
Prerequisites: BUS060: Introduction to Marketing I

ENGLISH

ENG010: Journalism

Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles. Students conduct interviews, research, write, and design their own publications.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: None

ENG011: English Foundations II (Remediation)

Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Struggling readers develop mastery in reading comprehension, vocabulary building, study skills, and media literacy. Students build confidence in writing fundamentals by focusing on composition in a variety of formats, grammar, style, and media literacy. Formative assessments identify areas of weakness, lessons are prescribed to improve performance, and summative assessments track progress and skill development.
Course Length: Yearlong
Suggested Grade: 9-12
Prerequisites: None
Special Note: Remediation courses are assigned to students as needed.

ENG020: Public Speaking

Students are introduced to public speaking as an important component of their academic, work, and social lives. They develop skills as public speakers by planning, organizing, writing, and delivering speeches on topics of their choosing. They learn how to be fair and critical listeners as they listen to and respond to model speeches as well as those delivered by their online classmates.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: None
Special Notes: Basic familiarity with recording and uploading videos is expected. Students must use provided microphone.

ENG030: Creative Writing

In this course, students will explore a range of creative writing genres, including fiction, poetry, creative nonfiction, drama, and multimedia writing. Students will study examples of writing through classic and contemporary selections and will apply that knowledge and understanding to their writing. In addition, students will develop an intimate understanding of the writing process and its application to various projects. As students move through the course, they will understand and evaluate the writings of others, and be able to apply the evaluation criteria to their own writing. By the end of the course, students will have created a well-developed portfolio of finished written works. Learning activities include reading; listening; discussing; writing; multiple choice games; self check activities; and reflective journals. The unit structure includes the broader idea of the unit as defined by the main heading. Units will include a combination of activities and will culminate in a submittal of the finished unit project. Unit projects will be developed in phases throughout each section of the unit. Unit lessons and performance tasks have been scaffolded carefully to help students achieve deeper levels of understanding.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: None

ENG103: Literary Analysis and Composition I

This course challenges students to improve their written and oral communication skills, while strengthening their ability to understand and analyze literature in a variety of genres.

Literature: Students read a broad array of short stories, poetry, drama, novels, autobiographies, essays, and famous speeches. The course guides students in the close reading and critical analysis of classic works of literature, and helps them appreciate the texts and the contexts in which the works were written. Literary selections range from classic works such as Shakespeare's *Romeo and Juliet* to contemporary pieces by authors such as Maya Angelou.

Language Skills: Students broaden their composition skills by examining model essays in various genres by student and published writers. Through in-depth planning, organizing, drafting, revising, proofreading, and feedback, they hone their writing skills. Students build on their grammar, usage, and mechanics skills with in-depth study of sentence analysis and structure, agreement, and punctuation, reinforced by online activities (Skills Updates). Student vocabularies are enhanced through the study of Greek and Latin root words, improving students' ability to decipher the meanings of new words.

Course Length: Yearlong

Suggested Grade: 9

Prerequisites: K_{12} Intermediate English A and B, or equivalent

Note: *Students who have already succeeded in K_{12} middle school Literary Analysis and Composition should not enroll in this course.*

ENG104: Honors Literary Analysis and Composition I

This course challenges students to improve their written and oral communication skills, while strengthening their ability to understand and analyze literature in a variety of genres. Students enrolled in this course work on independent projects that enhance their skills and challenge them to consider complex ideas and apply the knowledge they have learned.

Literature: Students read a broad array of short stories, poetry, drama, novels, autobiographies, essays, and famous speeches. The course guides students in the close reading and critical analysis of classic works of literature, and helps them appreciate the texts and the contexts in which the works were written. Literary selections range from the Greek tragedy *Antigone* to Shakespeare's *Romeo and Juliet* to contemporary pieces by authors such as Annie Dillard and Maya Angelou.

Language Skills: Students broaden their composition skills by examining model essays in various genres by student and published writers. Through in-depth planning, organizing, drafting, revising, proofreading, and feedback, they hone their writing skills. Students build on their grammar, usage, and mechanics skills with in-depth study of sentence analysis and structure, agreement, and punctuation, reinforced by online activities. Student vocabularies are enhanced through the study of Greek and Latin root words, improving students' ability to decipher the meanings of new words.

Course Length: Yearlong

Suggested Grade: 9

Prerequisites: Success in K_{12} Intermediate English A and B, or equivalent, and teacher/school counselor recommendation

Note: Students who have already succeeded in K_{12} middle school Literary Analysis and Composition should not enroll in this course.

ENG203: Literary Analysis and Composition II

In this course, students build on existing literature and composition skills and move to higher levels of sophistication.

Literature: Students hone their skills of literary analysis by reading short stories, poetry, drama, novels, and works of nonfiction, both classic and modern. Authors include W. B. Yeats, Sara Teasdale, Langston Hughes, Robert Frost, Edgar Allan Poe, Nathaniel Hawthorne, Kate Chopin, Amy Tan, and Richard Rodriguez. Students read Shakespeare's *Macbeth*. They are offered a choice of novels and longer works to study, including works by Jane Austen, Charles Dickens, Elie Wiesel, and many others.

Language Skills: In this course, students become more proficient writers and readers. In composition lessons, students analyze model essays from readers' and writers' perspectives, focusing on ideas and content, structure and organization, style, word choice, and tone. Students receive feedback during the writing process to help them work toward a polished final draft. In addition to writing formal essays, résumés, and business letters, students write and deliver a persuasive speech. Students expand their knowledge of grammar, usage, and mechanics through sentence analysis and structure, syntax, agreement, and conventions. Unit pretests identify skills to address more fully. Students strengthen their vocabularies through thematic units focused on word roots, suffixes and prefixes, context clues, and other important vocabulary building strategies.

Course Length: Yearlong

Suggested Grade: 9-10

Prerequisites: ENG103: Literary Analysis and Composition I, or equivalent

ENG204: Honors Literary Analysis and Composition II

In this course, students build on existing literature and composition skills and move on to higher levels of sophistication. Students work on independent projects that enhance their skills and challenge them to consider complex ideas and apply the knowledge they have learned.

Literature: Students hone their skills of literary analysis by reading short stories, poetry, drama, novels, and works of nonfiction, both classic and modern. Authors include W. B. Yeats, Sara Teasdale, Langston Hughes, Robert Frost, Edgar Allan Poe, Nathaniel Hawthorne, Kate Chopin, Amy Tan, Richard Rodriguez, and William Shakespeare. Students have a choice of novels and longer works to study, including works by Jane Austen, Charles Dickens, and Elie Wiesel.

Language Skills: In this course, students become more proficient writers and readers. In composition lessons, students analyze model essays from readers' and writers' perspectives, focusing on ideas and content, structure and organization, style, word choice, and tone. Students receive feedback during the writing process to help them work toward a polished final draft. In addition to writing formal essays, résumés, and business letters, students write and deliver a persuasive speech. Students expand their knowledge of grammar, usage, and mechanics through sentence analysis and structure, syntax, agreement, and conventions. Unit pretests identify skills to address more fully. Students strengthen their vocabularies through thematic units focused on word roots, suffixes and prefixes, context clues, and other important vocabulary-building strategies.

Course Length: Yearlong
Suggested Grade: 9-10
Prerequisites: Success in ENG104: Honors Literary Analysis and Composition I, or equivalent, and teacher/school counselor recommendation

ENG303: American Literature

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: Yearlong
Suggested Grade: 10-11
Prerequisites: ENG203: Literary Analysis and Composition II, or equivalent

ENG304: Honors American Literature

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. Students enrolled in this challenging course will also complete independent projects that deepen their understanding of the themes and ideas presented in the curriculum.

Course Length: Yearlong
Suggested Grade: 10-11
Prerequisites: Success in ENG204: Honors Literary Analysis and Composition II, or equivalent, and teacher/school counselor recommendation

ENG403: British and World Literature

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

Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: ENG303: American Literature, or equivalent

ENG404: Honors British and World Literature

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.

Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: ENG304: American Literature, or equivalent, and teacher/school counselor recommendation

ENG500: AP English Language and Composition

Students learn to understand and analyze complex works by a variety of authors. They explore the richness of language, including syntax, imitation, word choice, and tone. They also learn about their own composition style and process, starting with exploration, planning, and writing, and continuing through editing, peer review, rewriting, polishing, and applying what they learn to academic, personal, and professional contexts. In this equivalent of an introductory college-level survey class, students prepare for the AP® Exam and for further study in communications, creative writing, journalism, literature, and composition.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: Success in ENG304: Honors American Literature (or equivalent) and teacher/school counselor recommendation

ENG510: AP English Literature and Composition

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: Yearlong
Suggested Grade: 11-12
Prerequisites: Success in ENG304: Honors American Literature (or equivalent) and a teacher/school counselor recommendation

HISTORY and SOCIAL STUDIES

HST010: Anthropology

Anthropology is the study of human beings and their social, environmental, and cultural relationships over time. In this course, students familiarize themselves with their own culture as they explore cultures from around the world and from different periods in history. Students examine each culture through the lens of family, land, death, identity, and power, to explore the similarities and differences of cultural roles in various times and places.
Course Length: One Semester
Suggested Grade: 10-12
Prerequisites: HST103: World History (or equivalent)
Special Note: This course qualifies as a Humanities course.

HST020: Psychology

In this introductory course, students explore why people think and act the way they do. Topics include key terms, the major concepts and theories of psychology, and ethical standards that govern psychological research. Students develop critical thinking skills to evaluate theories and current research, learn how psychological principles apply to their own lives, and build on reading, writing, and discussion skills.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: None
Special Note: This course qualifies as a Humanities course.

HST050: Sociology 1

The world is becoming more complex. How do your beliefs, values, and behavior affect the people around you and the world in which we live? Students examine social problems in our 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
Suggested Grade: 11-12
Prerequisites: None
Special Note: This course qualifies as a Humanities course

OTH051: Sociology 2

Sociology is the study of people, social life, and society. By developing a “sociological imagination” students are able to examine how society itself shapes human action and

beliefs—and how in turn these factors re-shape society itself! Fascinating *online video journeys not only inform* students, but motivate them to seek more knowledge on their own

Course Length: One semester
Suggested Grade: 11-12
Prerequisites: None
Special Note: This course qualifies as a Humanities course

HST103: World History

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

Course Length: Yearlong
Suggested Grade: 9-10
Prerequisites: K12 middle school American History Since 1865, World History A or World History B, or equivalent

HST104: Honors World History

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 honors project each semester.

Course Length: Yearlong
Suggested Grade: 9-10
Prerequisites: K12 middle school American History Since 1865, World History A or World History B, or equivalent and teacher/school counselor recommendation

HST203: Modern World Studies

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

Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: HST103: World History or equivalent

HST204: Honors Modern World Studies

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

Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: HST103: World History or equivalent, success in previous social studies course, and a teacher/school counselor recommendation

HST213: Geography and World Cultures

This one-quarter course uses geographic features to explore how human relationships, political and social structures, economics, science, technology, and the arts have developed and influenced life in countries around the world. Throughout the course, students learn how to read maps, charts, and graphs rigorously and critically—and how to create them.

Examining the intersection of culture and geography, students discover how a mountain in the distance can inspire national policymakers, civil engineers, or poets; how a river triggers the activity of bridge builders, shipbuilders, and merchants alike; and how the sound of a busy Cairo street can inspire sociologists and musicians. Students come to understand how the drama of human history and cultural encounters— affecting land, natural resources, religious dominance, and more—is played out on the geographical stage

Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: HST103: World History or equivalent

HST222: Contemporary World Issues

In this course students will compare governments, economies, cultures and geography of the world. Emphasis will be placed on the civics, politics, economics, structures, processes and policies of United States and then compared with those of the international community. Students will use what they know and learn about the United States and the world to analyze current events and contemporary issues. Reasoning and research skills will be applied to the content throughout the course.

Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: HST103: World History and HST303, or equivalents
Special Note: This course qualifies as a Humanities course.

HST303: U.S. History

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 time lines, completing projects and written assignments, and conducting independent research.

Course Length: Yearlong
Suggested Grade: 10-11
Prerequisites: HST103: World History or equivalent

HST304: Honors U.S. History

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: Yearlong
Suggested Grade: 10-11
Prerequisites: HST103: World History or equivalent success in previous history course, and a teacher/school counselor recommendation

HST403: U.S. Government and Politics

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.

Course Length: One semester
Suggested Grade: 11-12
Prerequisites: HST303: U.S. History or equivalent

HST413: U.S. and Global Economics

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.
Course Length: One semester
Suggested Grade: 11-12
Prerequisites: HST303: U.S. History or equivalent, HST403: U.S. Government and Politics is recommended, but not required

HST500: AP U.S. History

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: Yearlong
Suggested Grade: 11-12
Prerequisites: Success in previous history course and a teacher/school counselor recommendation

HST510: AP U.S. Government and 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. They gain the analytic 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. They prepare for the AP® Exam and for further study in political science, law, education, business, and history.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: Success in HST304: Honors U.S. History, or equivalent, and teacher/school counselor recommendation

HST520: AP Macroeconomics

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
Suggested Grade: 11-12
Prerequisites: Success in MTH303: Algebra II (or equivalent) and a teacher/school counselor recommendation

HST530: AP Microeconomics

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
Suggested Grade: 11-12
Prerequisites: Success in MTH303: Algebra II (or equivalent), HST520: AP Macroeconomics, and a teacher/school counselor recommendation

HST540: AP Psychology

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

Suggested Grade: 11-12
Prerequisites: Success in SCI204: Honors Biology, or equivalent, and teacher/school counselor recommendation
Special Note: This course qualifies as a Humanities course.

HST560: AP World History

This course spans the Neolithic age to the present in a rigorous academic format organized by chronological periods and viewed through fundamental concepts and course themes.
Students analyze the causes and processes of continuity and change across historical periods. Themes include human environment, interaction, cultures, expansion and conflict, political and social structures, and economic systems. In addition to mastering historical content, students cultivate historical thinking skills that involve crafting arguments based on evidence, identifying causation, comparing and supplying context for events and phenomenon, and developing historical interpretation.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: Success in previous history course and a teacher/school counselor recommendation

MATHEMATICS

MTH011: Math Foundations II (Remediation)

Students build and reinforce foundational math skills typically found in sixth through eighth grade, achieving the computational skills and conceptual understanding needed to undertake high school math courses with confidence. Carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. Formative assessments identify areas of weakness and prescribe lessons to improve performance. Summative assessments track progress and skill development. This course is appropriate for use as remediation at the high school level or as a bridge to high school.
Course Length: Yearlong
Suggested Grade: 9-12
Prerequisites: None
Special Note: Remediation courses are assigned to students as needed.

MTH107: Developmental Algebra

This course covers fewer topics than the one-year Algebra 1 course, providing students more time to learn and practice key concepts and skills.
Students will solve equations and perform manipulations with numbers, variables, equations, and inequalities.
Students begin to explore the tools and principles of algebra. They learn to identify the structure and propertiesof the real number system, complete operations with integers and other rational numbers, and work with squareroots and irrational numbers. They also graph linear equations, solve linear equations and inequalities in one variable, and solve systems of linear equations. Virtual tools help students visualize algebraic relationships.
After completing Developmental Algebra, students are prepared to take Algebra 1.
Course Length: Yearlong
Suggested Grade: 9-10
Prerequisites: K12 middle school Fundamentals of Geometry and Algebra, or equivalent, or MTH112: Pre-Algebra

MTH113: Pre-Algebra

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. Online lessons provide demonstrations of key concepts, as well as interactive problems with contextual feedback. A textbook supplements the online material.
Course Length: Yearlong
Suggested Grade: 9-10
Prerequisites: K12 middle school Fundamentals of Geometry and Algebra, or equivalent
Note: *Students who have already succeeded in K12 middle school Pre-Algebra should not enroll in this course.*

MTH123: Algebra I

Students develop algebraic fluency by learning the skills needed to solve equations and perform manipulations with numbers, variables, equations, and inequalities. They also learn concepts central to the abstraction and generalization that algebra makes possible. Topics include simplifying expressions involving variables, fractions, exponents, and radicals; working with integers, rational numbers, and irrational numbers; graphing and solving equations and inequalities; using factoring, formulas, and other techniques to solve quadratic and other polynomial equations; formulating valid mathematical arguments using various types of reasoning; and translating word problems into mathematical equations and then using the equations to solve the original problems. Compared to MTH122, this course has a more rigorous pace and more challenging assignments and assessments. It covers additional topics including translating functions, higher degree roots, and more complex factoring techniques.
Course Length: Yearlong
Suggested Grade: 9-10
Prerequisites: K12 middle school Pre-Algebra, MTH113: Pre-Algebra, or equivalent, or appropriate placement testing results
NOTE: *Students who have already succeeded in K12 middle school Algebra I should not enroll in this course.*

MTH124: Honors Algebra I

This course prepares students for more advanced courses while they develop algebraic fluency, learn the skills needed to solve equations, and perform manipulations with numbers, variables, equations, and inequalities. They also learn concepts central to the abstraction and generalization that algebra makes possible. Topics include simplifying expressions involving variables, fractions, exponents, and radicals; working with integers, rational numbers, and irrational numbers; graphing and solving equations and inequalities; using factoring, formulas, and other techniques to solve quadratic and other polynomial equations; formulating valid mathematical arguments using various types of reasoning; and translating word problems into mathematical equations and then using the equations to solve the original problems. This course includes all the topics in MTH123, but includes more challenging assignments and optional challenge activities. Each semester also includes an independent honors project.
Course Length: Yearlong
Suggested Grade: 9-10
Prerequisites: Success in previous math course and teacher/counselor recommendation, appropriate placement testing results

MTH203: Geometry

In this comprehensive course, students are challenged to recognize and work with geometric concepts in various contexts. They build on ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry. They develop deeper understandings of mathematical structure, method, and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; the use of transformations; and non-Euclidean geometries.
Course Length: Yearlong
Suggested Grade: 10-11
Prerequisites: MTH123: Algebra I, or equivalent

MTH204: Honors Geometry

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

Suggested Grade: 10-11
Prerequisites: MTH123: Algebra I or MTH124: Honors Algebra I, or equivalent, and teacher/school counselor recommendation

MTH303: Algebra II

This course builds upon algebraic concepts covered in Algebra I and prepares students for advanced-level courses. Students extend their knowledge and understanding by solving open-ended problems and thinking critically. Topics include conic sections; functions and their graphs; quadratic functions; inverse functions; and advanced polynomial functions. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; and data analysis.
Course Length: Yearlong
Suggested Grade: 10-12
Prerequisites: MTH123: Algebra I and MTH203: Geometry

MTH304: Honors Algebra II

This course builds upon advanced algebraic concepts covered in Algebra I and prepares students for advanced-level courses. Students extend their knowledge and understanding by solving open-ended problems and thinking critically. Topics include functions and their graphs; quadratic functions; complex numbers, and advanced polynomial functions. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; probability; statistics; and conic sections. Students work on additional challenging assignments, assessments, and research projects.
Course Length: Yearlong
Suggested Grade: 10-12
Prerequisites: MTH123: Algebra I or MTH124: Honors Algebra I and MTH203: Geometry or MTH204: Honors Geometry, or equivalents, and teacher/school counselor recommendation

MTH307: Practical Math

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: Yearlong
Suggested Grade: 11-12
Prerequisites: MTH123: Algebra I and MTH203: Geometry, or equivalent.

MTH322: Consumer Math

Students can apply this comprehensive review and study of arithmetic skills to both personal and vocational business opportunities. Topics include whole numbers, fractions, percentages, basic statistics, and graphs. Students are shown practical applications for what they have learned in their personal lives, including home and car ownership, wages and taxes, budgeting, banking, and credit.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: MTH113: Pre-Algebra or equivalent

MTH332: Integrated Math

Students will build mathematical skills that will allow them to solve problems and reason logically.
Students will be able to communicate their understanding by organizing, clarifying, and refining mathematical information for a given purpose; students will use everyday mathematical language and notation in appropriate and efficient forms to clearly express or represent complex ideas and information. The purpose of this course is to provide students with an overview of the many mathematical disciplines. Topics included are number sense, geometry, algebra, measurement, probability and statistics, and data interpretation. Assessments within the course include multiple-choice, short answer, or extended response questions. Also included in this course are self-check quizzes, audio tutorials, web quests and interactive games. This course is not designed to take the place of Algebra I.
Course Length: Yearlong
Suggested Grade: 9-12
Prerequisites: MTH113: Pre-Algebra or equivalent

MTH342: Accounting

Through this course, students will gain a foundation in the skills needed for college accounting courses, office work, and managing their own small businesses. These skills are necessary for any student planning to major in Business in college. In this Introduction to accounting, students who have never had prior accounting training are given an overview of the three forms of accounting: financial, cost,

and management accounting. The course helps build an appreciation for the role of accounting in managing a profitable business. It covers the basic concepts, conventions and rules of the double entry system. It introduces techniques to analyze ratios from the balance sheet. The concept of ethics, integrity, and confidentiality and rigor are woven through all the chapters.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: MTH123: Algebra I or equivalent

MTH403: Pre-Calculus/Trigonometry

Pre-calculus weaves together previous study of algebra, geometry, and functions 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 linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections in the first semester. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers. Cross-curricular connections are made throughout the course to calculus, art, history, and a variety of other fields related to mathematics.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: Success in MTH203: Geometry and MTH303: Algebra II

MTH413: Probability and Statistics

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.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: MTH303: Algebra II

MTH433-AVT: Calculus

This course is a comprehensive look at the study of differential and integral calculus concepts including limits, derivative and integral computation, linearization, Riemann sums, the Fundamental Theorem of Calculus, and differential equations. Applications include graph analysis, linear motion, average value, area, volume, and growth and decay models.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: Pre-Calculus

MTH500: AP Calculus AB

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: Yearlong
Suggested Grade: 12
Prerequisites: Success in MTH203: Geometry, MTH303: Algebra II, MTH403: Pre-Calculus/Trigonometry, and a teacher/school counselor recommendation

MTH510: AP Statistics

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 exam and for further study in science, sociology, medicine, engineering, political science, geography, and business.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: Success in MTH303: Algebra II and a teacher/school counselor recommendation

PHYSICAL EDUCATION AND HEALTH

OTH010: Skills for Health

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
Suggested Grade: 9-12
Prerequisites: None

OTH020: Physical Education

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 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 (or more)
Suggested Grade: 9-12
Prerequisites: None

ELECTIVES

OTH031: Archaeology

George Santayana once said, "Those who cannot remember the past are condemned to repeat it." The field of archaeology helps us better understand the events and societies of the past that have helped shape our modern world.

Students focus on the techniques, methods, and theories that guide the study of the past. They learn how archaeo-logical research is conducted and interpreted, as well as how artifacts are located and preserved.

They explore the relationship of material items to culture and discover what we can learn about past societies from these items.

Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: None
Special Note: This course qualifies as a Humanities course

OTH032: Astronomy

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe. This course introduces students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students examine the life cycle of stars, the properties of planets, and the exploration of space.

Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: SCI113: Earth Science or equivalent.

OTH033: Veterinary Science

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

Suggested Grade: 11-12
Prerequisites: SCI203: Biology or equivalent.

OTH034: Introduction to Agriscience

Agriculture has played an important role in the lives of humans for thousands of years. It has fed us and given us materials that have helped us survive. Today, scientists and practitioners are working to improve and better understand agriculture and how it can be used to continue to sustain human life. In this course, students learn about the development and maintenance of agriculture, animal systems, natural resources, and other food sources. Students also examine the relationship between agriculture and natural resources and the environment, health, politics, and world trade.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: SCI113: Earth Science or equivalent.

OTH035: Early Childhood Education

Children experience enormous changes in the first few years of their lives. They learn to walk, talk, run, jump, read and write, among other milestones. Caregivers can help infants, toddlers, and children grow and develop in positive ways. This course is for students who want to influence the most important years of human development. In the course, students learn how to create fun and educational environments for children; how to keep the environment safe for children; and how to encourage the health and well-being of infants, toddlers, and school-aged children.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: OTH060: Family and Consumer Science
Special Note: This course qualifies as a Humanities course.

OTH036: Gothic Literature

Since the eighteenth century, Gothic tales have influenced fiction writers and fascinated readers. This course focuses on the major themes found in Gothic literature and demonstrates how the core writing drivers produce a suspenseful environment for readers. It presents some of the recurring themes and elements found in the genre. As they complete the course, students gain an understanding of and an appreciation for the complex nature of Gothic literature.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: Grade of "B" or higher in ENG203: LAC2 or higher English course.

OTH037: Hospitality and Tourism

People are traveling around the globe in growing numbers. As a result, the hospitality and tourism industry is one of the fastest growing in the world.

Students are introduced to this industry through topics including hotel and restaurant management, cruise ships, spas, resorts, and theme parks. They learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel.

They also examine current and future trends in the field.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: None

OTH038: Careers in Criminal Justice

The criminal justice system offers a wide range of career opportunities, from law enforcement to forensic scientists to lawyers and judges.

Students explore various aspects of the system, including the trial process, juvenile justice, and corrections.

They explore careers in each area and learn about the expectations and training required.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: None

OTH039: Criminology

Students are introduced to the field of criminology: the study of crime. They look at possible explanations for crime from psychological, biological, and sociological perspectives.

Students learn about the categories and social consequences of crime, and how the criminal justice system handles criminals and their misdeeds.

They explore key questions, including: 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
Suggested Grade: 11-12
Prerequisites: None

OTH060: Family and Consumer Science

The high school Family and Consumer Science course focuses on the development of skills and knowledge that

will help teenagers transition into the adult roles within the family. Students engage in activities to develop their abilities to make wise consumer choices, to prepare nutritious meals, to contribute effectively as part of a team, to manage a household budget, and to balance roles of work and family. Students gain an appreciation for the responsibilities of family members throughout the life-span and how they as individuals contribute to the well-being of not only their family but also their larger community.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: None
Special Note: This course qualifies as a Humanities course

OTH070: Driver's Safety

This course is a foundation of theory for responsible driving. Emphasis is placed upon mechanics of driving, execution of driving operations and rules of safe driving.
Course Length: One Semester
Suggested Grade: 10-11
Prerequisites: None
Special Note: Students should take this course prior to acquiring their drivers' license.

OTH080: Nutrition and Wellness

This 1/2 credit course will introduce the student to an overview of good nutrition principles that are needed for human physical & mental wellness. Discussion of digestion, basic nutrients, weight management, sports & 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
Suggested Grade: 11-12
Prerequisites: OTH010: Health or SCI203: Biology or equivalent

OTH092: Introduction to Health Sciences

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
Suggested Grade: 11-12
Prerequisites: SCI203: Biology or equivalent

OTH093: Culinary Arts

Food is fundamental to life. Not only does it feed our bodies, it's often the centerpiece for family gatherings and social functions.

Students learn all about food, including food culture, food history, food safety, and current food trends. They also learn about the food service industry and prepare culinary dishes.

Through hands-on activities and in-depth study of the culinary arts field, students hone their cooking skills and explore careers in the food industry.
Course Length: One Semester
Suggested Grade: 11-12
Prerequisites: None
Special Note: This course qualifies as a Humanities course.

SCIENCE

SCI010: Environmental Science

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
Suggested Grade: 11-12
Prerequisites: One credit of High School science.

SCI030: Forensic Science

This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through online lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.
Course length: One Semester
Suggested Grade: 11-12
Prerequisites: Successful completion of at least two years of high school science including SCI203: Biology and SCI303: Chemistry
Special Note: The course covers mature content from crime scenes.

SCI102: Physical Science

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 skill 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. K_{12} lab kits contain all lab materials that cannot easily be found in the home.
Course Length: Yearlong
Suggested Grade: 10-12
Prerequisites: None

SCI113: Earth Science

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 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. K_{12} lab kits contain all lab materials that cannot easily be found in the home.
Course Length: Yearlong
Suggested Grade: 9
Prerequisites: K_{12} middle school Life Science, or equivalent

SCI114: Honors Earth Science

This challenging course provides students with an honors-level 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 prepares students for advanced studies in geology, meteorology, oceanography, and astronomy courses, and gives them more sophisticated experience in implementing scientific methods. Additional honors assignments include debates, research papers, extended collaborative laboratories, and virtual laboratories. K_{12} lab kits contain all lab materials that cannot easily be found in the home.
Course Length: Yearlong
Suggested Grade: 9
Prerequisites: K_{12} middle school Life Science, or equivalent, success in previous science course, and teacher/school counselor recommendation

SCI203: Biology

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. K_{12} lab kits contain all lab materials that cannot easily be found in the home.
Course Length: Yearlong

Suggested Grade: 10
Prerequisites: K12 middle school Life Science, or equivalent

SCI204: Honors Biology

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 hands-on laboratory experiments students can conduct at home. Honors activities include debates, research papers, extended collaborative laboratories, and virtual laboratories. K12 lab kits contain all lab materials that cannot easily be found in the home.
Course Length: Yearlong
Suggested Grade: 10
Prerequisites: K12 middle school Life Science, or equivalent, success in previous science course, and teacher/school counselor recommendation

SCI303: Chemistry

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 related assessments, used with a problem-solving book. Instructions for hands-on labs are included. K12 lab kits contain all lab materials that cannot easily be found in the home.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: Satisfactory completion of either K12 middle school Physical Science or SCI102: Physical Science and solid grasp of algebra basics, evidenced by success in MTH122: Algebra I, or equivalent

SCI304: Honors Chemistry

This advanced course gives students a solid basis to move on to more advanced courses. The challenging course surveys all key areas, including 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, treat aspects of chemistry that require individual research and reporting, and participate in online threaded discussions. Instructions for hands-on labs are included. K12 lab kits contain all lab materials that cannot easily be found in the home.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: Success in previous science course, success in Algebra I, or equivalent, and teacher/school counselor recommendation

SCI403: Physics

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 and related assessments, plus an associated problem-solving book and instructions for conducting hands on laboratory experiments at home. K12 lab kits contain all lab materials that cannot easily be found in the home.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: MTH303: Algebra II, SCI203: Biology, and SCI303: Chemistry

SCI404: Honors Physics

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, extended collaborative laboratories, and virtual 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 and instructions for conducting hands-on laboratory experiments at home. K12 lab kits contain all lab materials that cannot easily be found in the home.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: MTH304: Honors Algebra II, SCI203: Biology, and SCI303: Chemistry MTH303: Algebra II or MTH304: and teacher/school counselor recommendation

SCI500: AP Biology

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: Yearlong

Suggested Grade: 11-12

Prerequisites: Success in Biology, Chemistry, Algebra II, and teacher/school counselor recommendation required; success in Pre-Calculus highly recommended

SCI510: AP Chemistry

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 first 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. Students prepare for the AP exam. The course content aligns to the sequence of topics recommended by the College Board and to widely used textbooks.

Course Length: Yearlong

Suggested Grade: 11-12

Prerequisites: Success in SCI303: Chemistry or SCI304: Honors Chemistry and MTH303: Algebra II, and a teacher/school counselor recommendation

SCI530: AP Environmental Science

This course—the equivalent of an introductory college-level course—examines the interrelationships of the natural world. Students identify and analyze environmental problems and their effects, and evaluate the effectiveness of proposed solutions. They learn to think like environmental scientists: making predictions based on observations, writing hypothesis, designing and completing field studies and experiments, and reaching conclusions based on the analysis of data derived from these experiments. Students apply the concepts of environmental science to their everyday experiences and current issues in science, politics, and society. Students participate in guided inquiry, student-centered learning, and critical thinking, and leave the course prepared for the AP® exam and further study in environmental science.

Course Length: Yearlong

Suggested Grade: 11-12

Prerequisites: Success in two years of laboratory sciences in the following, or equivalents: usually SCI204 or SCI500 (AP): Biology; or Life Science either SCI304 or SCI510 (AP): Chemistry; or SCI404 or SCI520 (AP): Physics SCI 114: Earth Science is recommended MTH124: Honors Algebra I teacher/school counselor recommendation

TECHNOLOGY

TCH010: Computer Literacy

Today's students must be able to effectively use technology to research, organize, create, and evaluate information. This course provides a foundation in the skills and concepts that define computer literacy in the twenty-first century. From the basics of keyboarding to Internet research techniques, document creation, and digital citizenship, students practice essential skills through hands-on projects.
Course Length: One Semester
Suggested Grade: 9-12
Software: OpenOffice.org (free download provided in course); Mozilla Firefox
Prerequisites: None

TCH017: 3D Art I—Modeling

This course introduces students to 3D modeling tools and concepts. Using Blender, the popular open source 3D modeling package, students will learn the basics of creating shapes, adding textures and lighting, and rendering. By the end of the course, students will have produced a series of increasingly sophisticated projects for their 3D portfolios. This course is suitable for students with no prior experience with 3D game design or digital media authoring tools.
Course Length: One Semester
Suggested Grade: 10-12
Software: Blender (free download provided in course)
Prerequisites: None
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers. This course qualifies as a Humanities course.

TCH018: 3D Art II—Animation

In this advanced course, students build on the skills they developed in 3D Art I to learn 3D animation techniques. Using Blender, a powerful open-source modeling tool, they master the basics of animation—rigging, bones, and movement— while learning how to apply traditional animation techniques to their 3D models. They also learn about jobs in the industry.
Course Length: One Semester
Suggested Grade: 11-12
Software: 3D Art I—Modeling
Prerequisites: TCH017: 3D Art I—Modeling
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers**.** This course qualifies as a Humanities course.

TCH020: Computer Fundamentals

Students are introduced to the personal computer. They learn about the hardware, the operating system, and software applications. They practice using applications such as word processors, spreadsheets, and presentation software. They explore social and ethical issues related to the Internet, information, and security.

In addition, students learn how to gather and analyze data, and the tools to use to present data.

Students should not take this course if they have already completed Computer Literacy.
Course Length: One Semester
Suggested Grade: 9-12
Prerequisites: None

TCH026: Audio Engineering

In this introductory course, students learn about the physics of sound and the history of recording technologies. They learn about the four stages of professional music recording projects: recording, editing, mixing, and mastering. Using Audacity, an open-source recording and mixing program, they practice the techniques used by sound engineers to produce multi-track recordings. Through a series of engaging hands-on projects, they learn the fundamental concepts of audio engineering.
Course Length: One Semester
Suggested Grade: 10-12
Software: Audacity (free download provided in course)
Prerequisites: None
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers.

TCH027: Green Design and Technology

This course examines the impact of human activities on sustainability while exploring the basic principles and technologies that support sustainable design. Students learn about the potential for emerging energy technologies such as water, wind, and solar power. They find out how today's businesses are adapting to the increased demand for sustainable products and services. In this course, students develop a comprehensive understanding of this fast-growing field.
Course Length: One Semester
Suggested Grade: 11-12
Materials: None
Prerequisites: None

TCH028: Digital Arts I

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 explore career opportunities in the design, production, display and presentation of digital artwork. They respond to the artwork of others, and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.
Course Length: One Semester
Suggested Grade: 10-12
Software: Inkscape (free download provided in course)
Prerequisites: Basic computer skills
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers.

TCH029: Digital Arts II

Students build on the skills and concepts they learned in Digital Arts I as they develop their vocabulary of digital design elements. By the end of the course, they will have created a collection of digital art projects for their digital design portfolio.
Course Length: One Semester
Suggested Grade: 10-12
Software: Inkscape (free download provided in course)
Prerequisites: Digital Arts I
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers

TCH030: Image Design and Editing

This is the perfect course for anyone who wants to create compelling, professional looking graphic designs and photos. Students learn the basics of composition, color, and layout before moving on to technical topics like working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. At the end of this course, students will have a variety of original projects for their graphic design portfolio.
Course Length: One Semester
Suggested Grade: 10-12
Software: GIMP (free download)
Prerequisites: None
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers. This course qualifies as a Humanities course.

TCH036: Computer Science

This course introduces students to computer science concepts such as computer architecture, networks, and the Internet. Students use object-oriented programming, event-driven processes, modular computer programming, and data manipulation algorithms to produce finished software programs. They use the design process to create many programs by determining specifications, designing the software, and testing and improving the product until it meets the specifications. By the end of this course, students will have a solid foundation for further study in this subject.
Course Length: One Semester
Suggested Grade: 11-12
Software: Free download provided in course
Prerequisites: TCH010: Computer Literacy
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers

TCH038: Engineering Design /CAD

Computer-aided design systems are used by designers and manufacturers in virtually every industry to create engineering design solutions. In this course, students are introduced to engineering, learning the basics of CAD software: creating points, lines, other geometric forms, isometric drawings, and 3D models. They learn how to translate initial concepts into functional designs and 3D walkthroughs and explore career options in this hands-on introductory level course.
Course Length: One Semester
Suggested Grade: 11-12
Software: Free download provided in course
Prerequisites: None
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers.

TCH060: C++ Programming

In this introductory course, students learn basic programming concepts through a series of hands-on projects. They also learn about software development careers, the software development process, and industry best practices. Using Microsoft Visual C++ 2008, students master the building blocks of programming: functions, variables, loops, arrays, and classes.
Course Length: One Semester
Suggested Grade: 11-12

Software: Microsoft Visual C++ 2008 Express (free download provided in course)
Prerequisites: TCH036 Computer Science
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers.

TCH061: Programming I- VB.NET

This course presents basic programming and teaches the essential concepts of VisualBasic.net (VB.NET). As an introduction to VB.NET, students will see the basic uses of the programming language, its similarities to the English language (and others), and its flexibility as a programming language. The course helps participants understand the processes involved in software development and object-oriented programming. This is an introductory course that could lead to careers such as software engineer, developer, or game designer. The course participants will also complete a series of hands-on projects covering built in data types, operators, control structures, classes, and objects.
Course Length: One Semester
Suggested Grade: 11-12
Software: Visual Studio 2008 Express Edition
Prerequisites: TCH036: Computer Science
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers.

TCH062: Programming II-JAVA

This introductory-level course presents the understanding of JAVA and how to build a stand-alone application (such as a countdown clock or leap year indicator). This course is designed for first-time learners who have very little programming background except that introduced in Programming I: VB.NET. The student will also learn the techniques of JAVA, how JAVA can be used in cross-platform programming, and the robustness of the JAVA program. At the end of the course students will be able to write basic programs using JAVA and could pursue further instruction in any programming language.
Course Length: One Semester
Suggested Grade: 11-12
Software: JDK 1.5 or higher version
Prerequisites: Programming I- or understanding of version control and general software development, Basic Computer Fundamentals
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers.

TCH070: Game Design

This course is for anyone who loves gaming and wants to design and build original games from scratch. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. After learning about game genres, students learn about all aspects of the game-design process. From there, it's on to a series of increasingly challenging hands-on projects that teach all the elements of successful game development.
Course Length: One Semester
Suggested Grade: 11-12
Software: Multimedia Fusion 2 (Standard)
Prerequisites: TCH010: Computer Literacy
Special Note: Required software must be downloaded/installed the first week of course. Software may not work non-school computers.

TCH500: AP Computer Science Principles

This course introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. It covers the big ideas and computational thinking practices required in the AP Computer Science Principles curriculum framework using an easy to learn blocks based programming language called Snap! (based on Scratch), and powerful computer science ideas like recursion, higher order functions and computability. Through the course, students learn to create beautiful images, and realize that code itself can be beautiful. This is NOT just a programming course; students will learn many other CS Principles big ideas: creativity, abstraction, data and information, algorithms, the Internet, and global impact.
When discussing the social implications of computing, the course balances optimism about technology with a critical stance toward any particular technology.
Course Length: Yearlong
Suggested Grade: 11-12
Software: Snap!(free download) and Goggle Chrome
Prerequisites: Algebra 1 is highly recommended
Special Note: No previous programming experience needed.

WORLD LANGUAGE

WLG100: Spanish I

Students begin their introduction to Spanish by focusing on the four key areas of foreign 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 where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Course Length: Yearlong
Suggested Grade: 9-12
Prerequisites: None
Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone.

WLG110: French I

Students begin their introduction to French by focusing on the four key areas of foreign 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 where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Course Length: Yearlong
Suggested Grade: 9-12
Prerequisites: None
Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone.

WLG130: Latin I

Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. 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, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Course Length: Yearlong
Suggested Grade: 10-12
Prerequisites: ENG103: Literary Analysis & Composition I
Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone.

WLG200: Spanish II

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 where their language progression can be monitored. By semester 2, the course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Course Length: Yearlong
Suggested Grade: 10-12
Prerequisites: WLG100: Spanish I, middle school Spanish 1 and 2, or equivalent
Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone.

WLG210: French II

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 where their language progression can be monitored. By semester 2, the course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Course Length: Yearlong
Suggested Grade: 10-12
Prerequisites: WLG110: French I, middle school French 1 and 2, or equivalent
Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone.

WLG230: Latin II

Students continue with their study of Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, prepare students for a deeper study of Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. The emphasis is on reading Latin through engaging with myths from the ancient world which are presented in Latin. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, understand and use common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Course Length: Yearlong
Suggested Grade: 10-12
Prerequisites: WLG130: Latin I or equivalent
Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone.

WLG300: Spanish III

Students further deepen their understanding of Spanish by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken

passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, read and analyze important pieces of Hispanic literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Course Length: One semester
Suggested Grade: 11-12
Prerequisites: WLG200: Spanish II, or equivalent
Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone.

WLG310: French III

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 where their language progression can be monitored. The course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Course Length: Yearlong
Suggested Grade: 10-12
Prerequisites: WLG210: French II, or equivalent
Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone.

WLG400: Spanish IV

Students continue to sharpen listening, speaking, reading, and writing skills. They learn to express themselves using an ever-increasing vocabulary, present- and past-tense verbs, articles, and adjectives. Grammar is introduced and practiced with a variety of learning styles in mind. Throughout the course, students experience the culture, people, geographical locations, and histories of the Spanish-speaking world.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: WLG300: Spanish II, or equivalent
Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone.

WLG410: French IV

Students continue to sharpen listening, speaking, reading, and writing skills. They learn to express themselves using an expanding vocabulary; present, past, future and conditional verbs; articles; adjectives; and increasingly complex grammatical structures. Grammar is introduced and practiced with a variety of learning styles in mind. Throughout the course, students experience the culture, people, geographical locations, and histories of the French-speaking world.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: WLG310: French II, or equivalent
Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone.

WLG500: AP Spanish Language

In AP Spanish Language, students perfect their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid working knowledge of all Spanish verb forms and tenses. The equivalent of a college-level language course, AP Spanish Language prepares students for the AP exam and for further study of Spanish language, culture, and literature.
Course Length: Yearlong
Suggested Grade: 11-12
Prerequisites: WLG300: Spanish III (or equivalent) and a teacher/school counselor recommendation
Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone

WLG510: AP French Language

In AP French Language, students apply their French grammar and vocabulary knowledge and their listening, reading, speaking, and writing skills to a wide variety of real-world contexts. Students learn to speak fluently and accurately, write sophisticated compositions, and comprehend native speakers.

The equivalent of a college-level language course, AP French Language prepares students for the AP exam and for further study of French language, culture, and literature. Course Length: Yearlong

Suggested Grade: 11-12

Prerequisites: WLG310: French III (or equivalent) and teacher/ school counselor recommendation

Special Note: This course qualifies as a Humanities course. Students must have and use a working microphone.

Arts and Humanities

Course Listing

Course Name	Course Length		Course Type				
	Semester	Year	Prerequisites	Foundational	General	Honors	AP
Arts and Humanities							
Foundations of Art A	●				●		
Foundations of Art B	●				●		
Fine Art		●	Foundations of Art A or B		●		
3D Art 1 - Modeling	●				●		
3D Art II - Animation	●		3D Art 1 - Modeling		●		
Digital Arts I	●				●		
Digital Arts II	●		Digital Arts 1		●		
Image Design and Editing	●				●		
Foundations of Music A	●				●		
Foundations of Music B	●				●		
Music Appreciation		●	Foundations of Music A or B		●		
Audio Engineering	●				●		
Introduction to Culinary Arts	●				●		

English/Language Arts

Course Listing

Course Name	Course Length		Course Type				
	Semester	Year	Prerequisites	Foundational	General	Honors	AP
English/Language Arts							
English Foundations I		●	Recommendation	●			
English Foundations II		●	Recommendation	●			
Literary Analysis and Composition I		●	Middle School English		●	●	
Literary Analysis and Composition II		●	Literary Analysis and Composition I		●	●	
American Literature		●	Literary Analysis and Composition II		●	●	
British and World Literature		●	American Literature		●	●	
AP English Language and Composition		●	Honors American Literature				●
AP English Literature and Composition		●	Honors American Literature				●
Journalism	●				●		
Public Speaking	●				●		
Creative Writing		●			●		
Gothic Literature	●		Literary Analysis and Composition II		●		

History and Social Studies

Course Listing

Course Name	Course Length		Course Type				
	Semester	Year	Prerequisites	Foundational	General	Honors	AP
Social Studies							
Anthropology	●		World History		●		
Archaeology	●				●		
Sociology 1	●				●		
Sociology 2	●				●		
Psychology	●				●		●
World History		●	Middle School History		●	●	●
Modern World Studies		●	World History		●	●	
Geography and World Cultures	●				●		
Contemporary World Issues		●	World History		●		
US History		●	World History		●	●	●
US Government and Politics	●		US History		●		
US and Global Economics	●		US History		●		
AP US Government and Politics	●		US History and Recommendation				●
AP Macroeconomics	●		Algebra II and Recommendation				●
AP Microeconomics	●		Algebra II and Recommendation				●

Mathematics

Course Listing

Course Name	Course Length		Course Type				
	Semester	Year	Prerequisites	Foundational	General	Honors	AP
Mathematics							
Math Foundations I		●	Recommendation	●			
Math Foundations II		●	Recommendation	●			
Pre-Algebra		●			●		
Developmental Algebra		●	Pre-Algebra		●		
Algebra I		●	Pre-Algebra		●	●	
Geometry		●	Algebra I		●	●	
Algebra II		●	Geometry		●	●	
Pre-Calculus/ Trigonometry		●	Algebra II		●		
AP Calculus AB		●	Pre-Calculus/Trigonometry and Recommendation				●
AP Statistics		●	Algebra II and Recommendation				●
Integrated Math		●	Pre-Algebra		●		
Accounting		●	Algebra I		●		
Practical Math		●	Algebra I & Geometry		●		
Consumer Math		●	Pre-Algebra		●		
Probability and Statistics	●		Algebra II		●		

Electives

Course Listing

Course Name	Course Length		Course Type				
	Semester	Year	Prerequisites	Foundational	General	Honors	AP
Electives							
Personal Finance	●				●		
Introduction to Entrepreneurship I	●				●		
Introduction to Entrepreneurship II	●		Introduction to Entrepreneurship I		●		
Skills for Health	●				●		
Physical Education	●				●		
Nutrition and Wellness	●		Health or Biology		●		
Sports and Entertainment Marketing	●				●		
Early Childhood Education	●				●		
Hospitality and Tourism	●				●		
Careers in Criminal Justice	●				●		
Criminology	●				●		
Family and Consumer Science	●				●		
Driver's Safety	●				●		
Computer Literacy	●				●		
Computer Fundamentals	●				●		
Computer Science	●		Computer Literacy		●		●
Engineering Design	●				●		
C++ Programming	●		Computer Science		●		
Programming I - VB.NET	●		Computer Science		●		
Programming II - Java	●		Programming I - VB.NET		●		
Game Design	●		Computer Literacy		●		

Science

Course Listing

Course Name	Course Length		Course Type				
	Semester	Year	Prerequisites	Foundational	General	Honors	AP
Science							
Environmental Science	●		1 Credit of High School Science		●		
Forensic Science	●		2 years completion of High School Science		●		
Physical Science		●			●		
Earth Science		●	Middle School Life Science		●	●	
Biology		●	Middle School Life Science		●	●	●
Chemistry		●	Physical Science		●	●	●
Physics		●	Algebra II, Biology, and Chemistry		●	●	
AP Environmental Science		●	Algebra II, Biology, and Chemistry				●
Astronomy	●		Earth Science		●		
Introduction to Agriscience	●		Earth Science		●		
Green Design and Technology	●				●		
Introduction to Health Sciences	●		Biology		●		
Veterinary Science	●		Biology		●		

World Languages

Course Listing

Course Name	Course Length		Course Type				
	Semester	Year	Prerequisites	Foundational	General	Honors	AP
World Languages							
Spanish I		●			●		
Spanish II		●	Spanish I		●		
Spanish III		●	Spanish II		●		
Spanish IV		●	Spanish III		●		
AP Spanish Language and Culture		●	Spanish III and Recommendation				●
French I		●			●		
French II		●	French I		●		
French III		●	French II		●		
French IV		●	French III		●		
Latin I		●			●		
Latin II		●	Latin I		●		