



2020-2021

Hamilton High School Program of Studies



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Mission Statement

“Together, Positively Impacting Learning and Life”

Letter to Parents and Students

Dear Parent and Student,

This Course Selection Guide is being provided to you as a resource for reviewing course offerings available to Hamilton High School students in grades 9-12. It includes all of the necessary information that you will need to make appropriate course choices to help your child/you achieve a high school diploma and prepare for life after high school.

You will find that there is a wide range of course options designed to prepare students for college, career, and life. There are courses available for students with all ability levels. Students who plan to attend college should be aware of the academic requirements necessary for college acceptance.

Colleges look closely at the course choices made by students. College bound students should choose the most challenging courses available whenever possible. They should also choose elective courses that are reflective of their desired college major, or strengthen the academic picture painted by their transcript.

Students planning to go directly into a career after high school are encouraged to look closely at the Career Technical Program options. Hamilton High School is a comprehensive high school and offers these programs within the building, during the school day through Butler Tech. Additionally, Hamilton High School offers a Naval ROTC program for students who think they may be interested in military service after high school.

The Course Guide includes other helpful tools to guide you. These include a list of graduation requirements, a credit check-sheet, NCAA approved courses, and a college process guide; just to name a few. Please refer to the Table of Contents to see the wide range of information available to you through this document.

We wish you well as you maneuver through the process of choosing courses. The Counseling and Teaching staff will be working closely with students to guide them through the scheduling process. Should you have questions, we encourage you to call. Our goal is to bring about the greatest level of success possible for our students.

Sincerely,

HHS Staff

Course Requirements, Planning & Definitions

GRADUATION REQUIREMENTS

[Ohio Department of Education - Graduation Requirements](#)

Class of 2020

Meet one of the following options

1. Ohio's State Tests - Earn 18 out of 35 points on seven End-of-Course State tests. You can earn up to five points on each test. You need a minimum of four points in mMath, four points in English Language Arts and six points across Science and Social Studies.
2. Industry-Recognized Credential and score on WorkForce Readiness Test - Earn an industry-recognized credential or a group of credentials totaling 12 points and earn the required score on the WorkKeys test. Ohio pays for you to take the test one time. Some districts offer the Senior Only Program through which you can earn credentials in one school year.
3. College and Career Readiness Tests - Earn remediation-free scores* in Math and English Language Arts on the ACT or SAT. Your district chooses either the ACT or SAT. You will take a one-time statewide spring test in grade 11 for free.

**Ohio's university presidents set these scores, which are subject to change.*

If you do not meet any of the above three pathways, Ohio law provides you two additional options to earn a high school diploma. Students must take and pass courses that constitute the curriculum requirements and take all seven end-of-course exams. If the student receives a score of "1" or "2" on any Math or English Language Arts test, the student must retake the test at least once. Additionally, students must meet at least two of the below requirements

- Earn a GPA of 2.5 on a 4.0 scale in all courses completed during the 11th and 12th grades (must complete at least four full-year – or equivalent – courses in each year);
- Complete a capstone project during 12th grade that meets criteria defined by Ohio Department of Education guidance and evaluation processes;
- During 12th grade, complete a work or community service experience totaling 120 hours, as defined by the Ohio Department of Education;
- Earn three or more College Credit Plus credits at any time during high school;
- Earn credit for an Advanced Placement (AP) or International Baccalaureate (IB) course and earn an AP exam score of 3 or higher or IB exam score of 4 or higher at any time during high school;
- Earn a WorkKeys exam score of 3 on each of three test sections;
- Earn a State Board-approved industry-recognized credential or credentials that equal at least three points;
- Meet OhioMeansJobs Readiness Seal requirements.

Classes of 2021 and 2022

Meet one of the following options

1. Satisfy one of the three original pathways to graduation that were in place when you entered high school. The pathways include:
 - Ohio's State Tests - Earn at least 18 points on seven End-of-Course State tests. Each test score earns you up to five graduation points. You must have a minimum of four points in Math, four points in English and six points across Science and Social Studies.
 - Industry Credential and Workforce Readiness - Earn a minimum of 12 points by receiving a State Board of Education-approved, industry-recognized credential or group of credentials in a single career field and earn the required score on WorkKeys, a work-readiness test. The state of Ohio will pay one time for you to take the WorkKeys test.
 - College and career readiness tests - Earn remediation-free scores in mathematics and English language arts on either the ACT or SAT.
2. Satisfy the new graduation requirements for the classes of 2023 and beyond by
 - Demonstrating Competency - Students will demonstrate competency in the foundational areas of English language arts and mathematics or through alternative demonstrations, which include College Credit Plus, career-focused activities or military enlistment.
 - Demonstrating Readiness - Students will demonstrate readiness for their post-high school paths by earning two seals that allow them to demonstrate important foundational and well-rounded academic and technical knowledge, professional skills, as well as develop key social and emotional competencies and leadership and reasoning skills.

Classes of 2023 and Beyond

Meet all of the following requirements

1. Demonstrate Competency: Students must demonstrate competency in math and English by passing the state's Algebra I and English II tests. Students who have taken required tests more than once without passing and have received remedial supports are able to show competency through one of the options below:
 - Earn credit for one math and/or one English course through College Credit Plus;
 - Demonstrate career readiness and technical skill through foundational and supporting options;
 - Enter into a contract to enlist in the military upon graduation.
2. Preparation for College or Careers: Students must earn two diploma seals, one of which must be state defined, to demonstrate academic, technical and professional readiness for careers, college, the military or self-sustaining professions.
 - OhioMeansJobs Readiness Seal
 - State Seal of Biliteracy
 - Industry Credential Seal
 - College-Ready Seal
 - Military Enlistment Seal
 - Science Seal
 - Honors Diploma Seal
 - Technology Seal
 - Citizenship Seal
 - Fine and Performing Arts Seal (locally defined)
 - Student Engagement Seal (locally defined)
 - Community Service Seals (locally defined)

Hamilton High School Graduation Credit Requirements - 22 Credits

4 credits	English (I, II, III, IV)
4 credits	Math (Algebra I, Geometry, Algebra II, Advanced Math)
3 credits	Social Studies (World History, US History, Government)
3 credits	Science (Physical Science, Biology, Additional Science)
½ credit	Fine Art (one additional semester of exposure is required)
½ credit	Health
½ credit	Physical Education* (each semester = ¼ credit)
6 ½ credits	Electives

*Students may be excused from the physical education requirement with a PE waiver

Graduation Distinctions

Beginning with the class of 2024, the HCSD will be transitioning away from a practice of recognizing the Top 20 students of a graduating class and will begin using a Summa Cum Laude, Magna Cum Laude, and Cum Laude distinction system. A Valedictorian and Salutatorian will still be recognized. Below are the thresholds that must be met to earn the three distinctions:

Summa Cum Laude: 4.3 GPA or Higher

Magna Cum Laude: 4.0 - 4.299 GPA

Cum Laude: 3.5 - 3.99 GPA

Students will be permitted to “declare” a course with a credit value of .5 credits each semester for a total of 1.0 credits for the year during their Sophomore, Junior and Senior years. The goal of course declaration is to allow students to enroll in courses that they are passionate about, not enrolling in courses because they are weighted for the sole benefit of bolstering their GPA to be recognized as one of the Top 20 students in their graduating class.

Scheduling Policy/Procedures

- The process of creating student schedules is a multi-step procedure that occurs over a period of months.
- Students are placed into core courses based on grades, test scores and teacher recommendations.
- Counseling staff will work with students to help them make elective choices that reflect both fulfillment of graduation requirements, and future college and career plans. Any concerns over course requests can be expressed to the student's Counselor.
- Students will receive their schedule at Orientation/Open House.
- Some courses may not be available due to closed enrollment or course offering conflicts.
- Any student who drops a class after the third (3) week of the semester will receive a "WF" (withdrawal failure), receiving zero credit for the course and will be computed into the GPA equivalent to a grade of "F".

Ohio Department of Education Honors Diploma Requirements

High school students can gain state recognition for exceeding Ohio's graduation requirements through an honors diploma. Students challenge themselves by taking and succeeding at high-level coursework and in real-world experiences.

Academic Honors Diploma	
4 Credits	English
4 Credits	Math
4 Credits	Social Studies
4 Credits	Science
3 or 4* Credits	World Language <i>*3 years of the same Language OR 2 years of 2 different languages each (total 4 Credits)</i>
1 Credit	Fine/Performing Arts
GPA	3.5+ Unweighted GPA
ACT	27+ Composite Score

Students must satisfy 7 of the 8 requirements in order to earn an Academic Honors Diploma

Career Tech Honors Diploma	
4 Credits	English
4 Credits	Math
4 Credits	Social Studies
4 Credits	Science
4 Credits	Career Technical
1 Credit	Fine/Performing Arts
GPA	3.5+ Unweighted GPA
Testing	27+ ACT Composite Score --OR-- 6+ on Reading for Information and 6+ on Applied Mathematics on the WorkKeys
Field Experience	Complete a field experience and document the experience in a portfolio specific to the student's area of focus.
Portfolio	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus.
Additional Assessments	Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent.

Students may omit one of the above requirements and earn a Career Tech Honors Diploma

STEM (Science, Technology, Engineering & Mathematics) Honors Diploma

4 Credits	English
5 Credits	Math
3 Credits	Social Studies
5 Credits	Science
3 or 4* Credits	World Language <i>*3 years of the same Language OR 2 years of 2 different languages each (total 4 Credits)</i>
1 Credit	Fine/Performing Arts
2 Credits	STEM-focused Electives
GPA	3.5+ Unweighted GPA
ACT	27+ Composite Score
Field Experience	Complete a field experience and document the experience in a portfolio specific to the student's area of focus.
Portfolio	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus.

Students may omit one of the above requirements and earn a STEM Honors Diploma

Arts Honors Diploma

4 Credits	English
4 Credits	Math
3 Credits	Social Studies
3 Credits	Science
3 or 4* Credits	World Language <i>*3 years of the same Language OR 2 years of 2 different languages each (total 4 Credits)</i>
4 Credits	Fine/Performing Arts
2 Credits	Art-focused Electives
GPA	3.5+ Unweighted GPA
ACT	27+ Composite Score
Field Experience	Complete a field experience and document the experience in a portfolio specific to the student's area of focus.
Portfolio	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus.

Students may omit one of the above requirements and earn an Arts Honors Diploma

Social Science & Civic Engagement Honors Diploma	
4 Credits	English
4 Credits	Math
5 Credits	Social Studies
3 Credits	Science
3 or 4* Credits	World Language <i>*3 years of the same Language OR 2 years of 2 different languages each (total 4 Credits)</i>
1 Credit	Fine/Performing Arts
3 Credits	Social Studies or Civics-focused Electives
GPA	3.5+ Unweighted GPA
ACT	27+ Composite Score
Field Experience	Complete a field experience and document the experience in a portfolio specific to the student's area of focus.
Portfolio	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus.

Students may omit one of the above requirements and earn a Social Science & Civic Engagement Honors Diploma

Ohio Department of Education - College Credit Plus

Ohio's College Credit Plus can help you earn college and high school credits at the same time by taking college courses from community colleges or universities. The purpose of this program is to promote rigorous academic pursuits and to provide a wide variety of options to college-ready students. Taking a college course from a public college or university College Credit Plus is free. That means no cost for tuition, books or fees

An "Intent to Participate" form must be completed and submitted to the counseling office no later than April 1st of the year prior to entrance to be eligible.

Hamilton High School partners with Sinclair Community College to offer College Credit Plus courses on Hamilton High School's campus. Students planning on pursuing this option will want to talk with their teachers and counselors. Below are sample pathways that include potential course offerings for College Credit Plus at the high school.

15 Credit Hour Pathway		
Course Name	Course Title	Credit Hours
COM 2211	Effective Public Speaking	3
ENG 1101	English Composition I	3
MAT 1450	Introduction to Statistics	4
PLS 1120	American Federal Government	3
PSY 1100	General Psychology	3
		16

30 Credit Hour Pathway		
Course Name	Course Title	Credit Hours
ENG 1201	English Composition II	3
MAT 1580	Pre-Calculus	5
PLS 1232	State & Local Government	3
HIS 1111	Western Civilization I	3
		14

Additional CCP Courses Offered		
Course Name	Course Title	Credit Hours
HIS 1112	Western Civilization II	3
MAT 1470	College Algebra	3
MAT 2270	Calculus & Analytic Geometry	5
SOC 1101	Introduction to Sociology	3
CJS 1101	Introduction to Criminal Justice	3
HIS 1101	United States History I	3
HIS 1102	United States History II	3
EDU 1100	Introduction to Education	3
ECE 2200	Families, Communities & Schools	3

Ohio High School Athletic Association Eligibility Requirements

In order to be eligible for the first grading period upon entrance into grade 9, you must have received passing grades in a minimum of five (5) classes in the immediately preceding grading period. In order to maintain eligibility for grades 9-12, you must have received passing grades in a minimum of five (5) one credit courses, or the equivalent, in the immediately preceding grading period. In addition:

- Summer school and other educational options (e.g. work permitted after the conclusion of the grading period) may not be used to bring a student into compliance with scholarship bylaws, nor can they be used to compensate for lack of courses taken in the preceding grading period.
- Your semester or yearly grades have no effect on OHSAA eligibility (although they could, depending upon your school's official grading periods). OHSAA eligibility is dependent upon grades received in the immediately preceding grading period.
- Those taking post-secondary school courses, including College Credit Plus, must comply with OHSAA scholarship regulations.
- The eligibility or ineligibility of a student continues until the start of the fifth school day of the next grading period, at which time the grades from the immediately preceding grading period become effective.

Note: Check with your principal or athletic administrator for the exact date that eligibility will be determined.

NCAA Eligibility Standards

Division I

To be eligible to compete in NCAA sports during your first year at a Division I school, you must graduate high school and meet ALL the following requirements:

- Complete 16 core courses:
 - Four years of English
 - Three years of Math (Algebra 1 or higher)
 - Two years of Natural/Physical Science (including one year of lab science if your high school offers it)
 - One additional year of English, Math or Natural/Physical Science
 - Two years of Social Science
 - Four additional years of English, Math, Natural/Physical Science, Social Science, Foreign Language, Comparative Religion or Philosophy
- Complete 10 core courses, including seven in English, Math or Natural/Physical Science, before your seventh semester. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses to improve your core-course GPA.
- Earn at least a 2.3 GPA in your core courses.
- Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division I sliding scale, which balances your test score and core-course GPA.

Division II

To be eligible to compete in NCAA sports during your first year at a Division II school, you must meet academic requirements for your core courses, grade-point average (GPA) and test scores. You must graduate high school and meet ALL the following requirements:

- Complete 16 core courses:
 - Three years of English.
 - Two years of Math (Algebra 1 or higher).
 - Two years of Natural or Physical Science (including one year of lab science if your high school offers it).
 - Three additional years of English, Math or Natural/Physical Science
 - Two years of Social Science
 - Four additional years of English, Math, Natural/Physical Science, Social Science, Foreign Language, Comparative Religion or Philosophy
- Earn at least a 2.2 GPA in your core courses.
- Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division II sliding scale, which balances your test score and core-course GPA.

Division III

Division III schools provide an integrated environment focusing on academic success while offering a competitive athletics environment. Division III rules minimize potential conflicts between athletics and academics and focus on regional in-season and conference play. While Division III schools do not offer athletics scholarships, 75 percent of Division III student-athletes receive some form of merit or need-based financial aid. If you are planning to attend a Division III school, you do not need to register with the NCAA Eligibility Center. Division III schools set their own admissions standards.

Types of Course Offerings

Advanced Placement (AP)

A course that offers high school students the opportunity to challenge him or herself at the college level while still taking advantage of the high school setting. These courses are taught by highly qualified teachers who have submitted a curriculum for a course audit, by the College Board. These courses are rigorous and challenging and require a significant amount of work that usually includes a summer assignment. The course ends with the AP Exam that, depending upon the score, may be counted for college credit at some colleges and universities. Students receive weighted grades in AP courses.

College Credit Plus (CCP)

College Credit Plus program is a "dual enrollment program" where high school students may enroll at a college and complete courses to earn both high school and college credit. Students in grades seven through twelve attending traditional public schools are eligible to participate. An "Intent to Participate" form must be completed and submitted to the counseling office no later than April 1st of the year prior to entrance to be eligible. Students receive weighted grades in CCP courses.

Honors

Students taking these courses should expect an extensive and rigorous experience. The future plans of students should include a four-year college degree and beyond. All students should perform at levels that meet and exceed the criterion for the Ohio Honors Diploma. There will be a focus on developing a student who is academically competitive for scholarships and is able to be accepted into selective colleges and universities. Students receive weighted grading in Honors courses.

College Prep (CP)

These courses provide an extensive and rigorous academic experience based on the ACT standards for college readiness. The future plans of students taking these courses should include the completion of a four-year degree. Students who are successful in these courses should be academically competitive for scholarships and college acceptance.

Credit Flex

Credit Flex shifts the focus from "seat time" to performance. Students can earn units of high school credit based on an individually approved credit flexibility plan. The intent of credit flexibility is to meet increased expectations for high school graduation in response to globalization, technology, and demographics, and to meet the demand for 21st century skills. An application must be filled out and approved prior to participation.

Credit Recovery

This program gives high school students who have failed a class the opportunity to redo coursework or retake a course through alternate means—and thereby avoid failure and earn academic credit. Depending upon need, courses are offered during the school day as well as after school.

Electives

Courses chosen by students to enhance their educational experience. They may be courses that are of specific interest to a student, increase knowledge toward a desired college major, or enhance the student transcript in some way. Six and a half elective credits are required for graduation but may be chosen by the student.

English as a Second Language (ESL)

English as a Second Language courses include English classes and/ a Resource Period. English classes are offered to students who have been identified as limited English proficient (LEP). These classes occur at the same time or in conjunction with English I-IV. Students receive English credit towards graduation. The Resource Period is given elective credit and provides mini-lessons as well as homework assistance to (LEP) students.

Inclusion
Inclusion is the educational practice of educating children with disabilities in classrooms with children without disabilities. Some, but not all, of these courses are team-taught by both a subject area teacher and an Intervention Specialist.
Intervention
Courses taught by trained Intervention Specialists for students who have an Individualized Education Plan (IEP). These courses are generally smaller in size and offer adaptive work based on individual student needs as indicated by the IEP.
PE Waiver
Hamilton High School students in the 9, 10, and 11 grades who successfully complete two full seasons of approved interscholastic athletics, marching band, cheerleading, or Naval Junior Reserve Officer Training Corps (NJROTC) may be excused from the state mandated physical education requirement. The PE waiver requirements must be fulfilled by the end of a students' 11th grade academic year. The Athletic Department or Program Director will notify the necessary personnel when a student earns a PE Waiver.
Required
Courses taken to meet the requirements to achieve a high school diploma.
Weighted Grade
Courses taken at the CCP, AP and Honors level that receive weighted grades. This only affects class rank.

Weighted Grading Chart

Course Level	A	B	C	D	F
CP	4.0	3.0	2.0	1.0	0.0
AP, CCP & Honors	5.0	4.0	3.0	1.0	0.0

There is no weighted grade given for a D or an F.

Course Offerings & Descriptions

ENGLISH

Core Course Descriptions

Honors English I				
Grade(s): 9	1 Year	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: None</i>				
<p>This course is designed for the high-performing student who has previously demonstrated excellence in language arts. It is designed to analyze a wide variety of literary genres using critical thinking strategies. Students should expect an intensive course of study that emphasizes critical writing and reading skills. Advanced skills in the writing process, grammar and mechanics are developed, and the application of these skills is essential. Through concentrated acceleration of subject matter and meaningful enrichment, the student will be prepared to enroll in Advanced Placement English classes. Students will extensively read a wide variety of literature and should expect nightly reading and writing assignments. Research is required.</p>				

CP English I				
Grade(s): 9	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
<p>This course is an intensive language arts course designed to prepare students for the demands of the Hamilton High School college preparatory English. Students will learn reading strategies as well as develop mature skills in literary analysis. Students will develop their skills in the writing process and critical thinking. The course will cover grammar, mechanics and vocabulary skills, and the students will be expected to implement them in their writing assignments. Students should expect frequent independent reading and writing assignments. Research is required.</p>				

Reading 9				
Grade(s): 9	1 Year	1 Credit		
<i>Prerequisites: None</i>				
<p>This course will include intense reading strategies and skills designed for high school students, with an emphasis on increased reading comprehension and vocabulary acquisition. This course is designed to enhance the student's success in reading more complex passages with an increased level of comprehension and confidence, preparing them to do well on the ACT Reading and/or the Accuplacer exam as they graduate and pursue their college experiences.</p>				

Honors English II

Grade(s): 10	1 Year	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: None</i>				
<p>This Pre-Advanced Placement course is designed for students who intend on pursuing AP literature or a college-level equivalent course. Students will read extensively in classic and contemporary works and study mature content and topics. Students will use close reading strategies and theories of literary criticism to analyze the perspectives of various authors and develop their own perspectives through writing and classroom discussions. Students should expect nightly reading homework and frequent writing assignments. The following excerpt from the AP Literature Website describes College Board's approach to reading mature texts: "Issues that might, from a specific cultural viewpoint, be considered controversial, including references to ethnicities, nationalities, religions, races, dialects, gender, or class, are often represented artistically in works of literature. Still, recognizing the universal value of literary art that probes difficult and harsh life experiences and so deepens understanding, College Board emphasizes that fair representation of issues and peoples may occasionally include controversial material. Since Pre-AP students have chosen a program that directly involves them in college-level work, this course depends on a level of maturity consistent with college students who have engaged in thoughtful analysis of literary texts. The best response to a controversial detail or idea in a literary work might well be a question about the larger meaning, purpose or overall effect of the detail or idea in context. Pre-AP students should have the maturity, the skill and the will to seek the larger meaning through thoughtful research. Such thoughtfulness is both fair and owed to the art and to the author."</p>				

CP English II

Grade(s): 10	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
<p>An intensive language arts course of study designed to prepare students for the demands of a traditional 4-year college program. Reading and writing assignments will develop mature skills in literary analysis and advanced writing process with additional emphasis on critical thinking and oral communication. Students should expect frequent independent reading and writing assignments, which will necessitate both the time and the commitment to complete course work. Research work is required.</p>				

CCP English Composition I - ENG 1101

Grade(s): 11-12	1 Semester	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: Test college ready via the ACT or the WritePlacer</i>				
<p>In English Composition I students learn reflective, analytical and argumentative writing strategies, incorporating sources and personal experience. Students will negotiate between public and private rhetorical situations and purposes to achieve academic literacy. They will write multiple drafts using a recursive writing process as they work toward fluency in style and mechanics.</p>				

CP English III

Grade(s): 11	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
Students enrolled in this intensive college preparatory course will develop critical thinking skills through the study of American literature and advanced composition techniques. Reading and writing assignments will be frequent and demanding, focusing on literary analysis, vocabulary application, writing process, forms of discourse, research methods, career planning, and creative writing. Students will also refine their oral communication skills and standardized test-taking skills. The Career Passport will be completed. Research is required.				

CCP English Composition II - ENG 1201

Grade(s): 11-12	1 Semester	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: Successful completion of ENG 1101, or 3 or higher on the AP English Literature & Composition exam</i>				
English Composition II, building on the skills in English Composition I, develops rhetorical literacy through research, critical reading and multigenre writing tasks. Through major and minor, cumulative and stand-alone assignments, students construct arguments and analyses, ethically incorporating academic sources while developing their own voices as writers and citizens.				

CP English IV

Grade(s): 12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
College bound students will focus on intensive refinement of their language arts skills through analysis of British and world literature and a comprehensive study of writing process, forms of discourse, vocabulary, research methods, oral communication, and forms of creative expression. Reading/writing assignments will be frequent and challenging. A research project is required.				

AP English Literature and Composition

Grade(s): 11-12	1 Year	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: Teacher Recommendation</i>				
This course is designed for the high-performing student who has previously demonstrated excellence in language arts. Students can expect a rigorous program of study focusing on an intensive analysis of British and World Literature. Students will also be expected to complete frequent writing and analytical assignments in order to refine writing processes and skills. The primary goals of this course are to prepare students for the rigors of college and prepare the students for the AP Literature exam. Students can expect nightly reading assignments and weekly writing assignments. Students will be asked to purchase or provide several supplemental texts for this course.				

English I, II, III, IV (Functional Curriculum)

Grade(s): 9-12

1 Year

1 Credit

Prerequisites: None

These courses are designed for students who are working within a functional curriculum and are alternately assess (in lieu of state standardized testing). This curriculum will prepare students for living and working in the community. Individual student goals in the areas of reading fluency, reading comprehension, writing conventions, and written expression skills will be addressed.

ENGLISH

ESL English Course Descriptions

ESL English				
Grade(s): 9-12	1 Year	1 Credit		
<i>Prerequisites: None</i>				
<p>Three levels of ESL English are offered in grades 9-12 to help support English language development. The classes occur at the same time as, or in conjunction with, English I, II, III, or IV. Students receive English credit toward graduation. All instruction is based on Ohio's English Language Arts and English Language Proficiency standards. Students must meet the following criteria to be placed in an ESL English class:</p> <ul style="list-style-type: none"> -Must be identified as limited English proficient (LEP) at beginning or intermediate language levels on most recent -Language Assessment Scale (LAS) or Ohio Test of English Language Assessment (OELPA). -Have been attending U.S. schools for less than three years -Have not passed English I or English II portions of the most recent End of Course AIR assessment 				

ESL Resource Period				
Grade(s): 9-12	1 Semester	½ Credit		
<i>Prerequisites: None</i>				
<p>This course is designed to provide elective credit to ESL students. Students participate in daily mini-lessons and receive assistance with homework. Daily mini lessons vary and include activities that: focus on English language skills (reading, writing, listening, and speaking); help students prepare for the AIR tests; and help students prepare for the OELPA.</p> <p>Students must meet the following criteria to be placed in an ESL Resource Period:</p> <ul style="list-style-type: none"> -Identified as limited English proficient (LEP) -Need additional English language support to be successful in subject area classes. 				

ENGLISH

Elective Course Descriptions

CCP Effective Public Speaking - COM 2211

Grade(s): 10-12	1 Semester	1 Credit		Weighted Grade
<i>Prerequisites: Test college ready via the ACT or the WritePlacer or successful completion of a college level English course</i>				
Sinclair Prerequisite(s): Any college level English course or placement test score Designed to improve speaking and listening skills through the study and application of Public Speaking structure, content and style.				

Creative and Expository Writing

Grade(s): 9-12	1 Semester	½ Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This course will concentrate on the writing process as taught at the university level to help students refine their writing skills in scholastic and creative writing. Students will work on style, organization, thesis writing, revision and editing. Students will also develop and employ a wide range of rhetorical and stylistic devices to improve their writing. Students will be expected to write every day.				

Mythology

Grade(s): 10-12	1 Semester	½ Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This semester class will examine major stories, themes, and characters from various mythologies and ethnic traditions including ancient Greek, Roman, Babylonian, and Egyptian; Norse and European; Asian and African; and North and South American. The class will focus on universal themes such as the heroic quest, and on the nature, purpose and perspective of the various mythic structures. Special emphasis will be given to the connections between classical and modern traditions and the role mythology plays in the history of art and thought. This course is designed for the college bound student.				

Public Speaking

Grade(s): 10-12	1 Semester	½ Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This course will enable the student to organize and express himself more effectively and fluently in a variety of speech situations. The course of study will include public speaking, oral interpretation, and listening skills. Contest participation is encouraged. This course is scheduled by seniority.				

Modern Novels

Grade(s): 10-12	1 Semester	½ Credit	NCAA Approved	
<i>Prerequisites: None</i>				
<p>This course is intended for students who enjoy reading for pleasure. The class will focus on works of literature from the 20th and 21st Century and include texts from current authors. Students will have opportunities throughout the semester to choose their own reading material with some guidance from the teacher. Students will discuss, analyze, review, and respond to the texts, as well as complete projects related to their reading. Students should expect daily reading and writing.</p>				

Yearbook

Grade(s): 10-12	1 Year	1 Credit		
<i>Prerequisites: Teacher Recommendation</i>				
<p>Layout organization, photography, advertising, production of the yearbook, and related activities constitute this course offering.</p>				

Introduction to Theater

Grade(s): 10-12	1 Semester	½ Credit		
<i>Prerequisites: None</i>				
<p>Participants in this class will study acting, production aspects of theater, careers in theater and how theater relates to the world around us. This class fulfills the fine arts requirement recommended for college. Credit will be given for participating in Hamilton High Theater productions.</p>				

Media Journalism

Grade(s): 10-12	1Year	1 Credit		
<i>Prerequisites: None</i>				
<p>Media Journalism and BluTV is a course designed to give you a chance to work in different areas of film production. You will learn everything from scripting storyboarding a film based project to shooting their project. Ultimately, you will learn how to edit and include special effects to your work. Technical know-how, or the desire to improve in this area, is a must. You will use computers and technical equipment daily, so this is not optional. You will create a YouTube channel and produce a variety of film based projects throughout the year. You will complete podcasts and blogging projects.</p>				

College 101

Grade(s): 11-12

1 Semester

½ Credit

Prerequisites: None

This semester class will help students prepare for the college experience and explore future career options. Students will learn about educational pathways towards those careers. Topics will include goal setting, self assessment, career exploration, resume creation, interview skills, financing a college education (including FAFSA submission for seniors), college search and fit, applying to college, and choosing a major. Students will be given the opportunity to define their academic, career and life goals, as well as create a reasonable educational and professional map for his or her future. The objective of the course is to prepare students for collegiate success in their future endeavors after HHS.

Film and Literature

Grade(s): 10-12

1 Semester

½ Credit

Prerequisites: None

Film Literature will enhance and broaden a student's knowledge and understanding of film terms and techniques, the adaptation of literature to screenplays, genres of films, elements of symbolism, literary themes in films, and film production in general. Students will learn to view films as an art form and as a means of communication beyond entertainment purpose. Students will read a variety of short stories, novels, or plays, and then make a comparison to a film. By approaching film and literary texts differently; students can gain a fresh view of both literature and film.

Read 180

Grade(s): 9 & 10

1 Semester

½ Credit

Prerequisites: None

Read 180 is an intensive reading intervention program designed to meet the needs of students whose reading achievement is below the proficient level. The program directly addresses individual needs through adaptive and instructional software, high-interest literature, and direct instruction in reading and writing skills.

Law, Order, & Literature

Grade(s): 9

1 Semester

½ Credit

NCAA Approved

Prerequisites: None

This class will review the basics of litigation and focus on both analysis, logic, and presentation by holding "trials" connected to compelling YA novels and/or short stories, Order and Literature.

Freshman Yearbook

Grade(s): 9

1 Semester

½ Credit

Prerequisites: None

Become a visual storyteller and develop your photography skills beyond the selfie. Use your photography skills to produce a 100+ page yearbook that documents your freshman year. Being on yearbook is a way to develop your business skills (advertising/sales), writing skills (stories, captions, interviewing), photography skills (attending sport and community events FREE) Along the way, learn how media tells stories, too. Applications and interviews will occur to determine final placement in this course.

Freshman Journalism/Publication

Grade(s): 9

1 Semester

½ Credit

Prerequisites: None

Students will strengthen writing skills necessary to produce daily/weekly news, monthly feature magazine, and a daily school announcement program. Students will develop interpersonal communication skills through interviews with individuals within the school, district and local media. Students will also develop and produce the annual class yearbook.

Young Adult/Dystopian Literature

Grade(s): 9

1 Semester

½ Credit

NCAA Approved

Prerequisites: None

Read books that have characters and themes that have high interest and encourage great discussions among teens. Options could include (but not limited to) popular titles and authors such as: *Turtles All the Way Down* by John Green, *Divergent* by Veronica Roth, and *We Were Liars* by E. Lockhart.

MATHEMATICS

Core Course Descriptions

Introduction to High School Mathematics				
Grade(s): 9	1 Year	1 Credit		
<i>Prerequisites: None</i>				
<p>This course is specifically designed for students entering high school who need additional support in math. This course will focus on skills and concepts that are foundational to the success in Algebra I, Geometry, and Algebra II. The topics in this course will provide students with the opportunity to work on these skills as they work toward becoming college and career ready. Access to a graphing calculator is recommended.</p>				

Math Lab				
Grade(s): 9	1 Year	1 Credit		
<i>Prerequisites: None</i>				
<p>This course is designed to fill gaps in student knowledge in preparation for High School math. This course utilizes prescriptive software designed and implemented by Aleks.com. Aleks is a research based online math program that provides an adaptive learning environment with detailed progress monitoring aimed at student mastery of the common core state standards. Students have the opportunity to study and learn over 1,000 different topics including but not limited to fractions, decimals, percents, ratios, proportions, equations and inequalities, graphing and functions, exponents, polynomials and radicals.</p>				

Algebra I				
Grade(s): 9-10	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
<p>This is a course where the student interprets number operations of arithmetic using algebraic symbols, graphing, solving equations, factoring and using exponents and radicals. This course includes a continuous spiral review of math concepts to help the student work toward preparedness for college or a post-high school career. Access to a graphing calculator is highly recommended.</p>				

Honors Geometry				
Grade(s): 9	1 Year	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: Successful completion of Honors Algebra 1 with teacher recommendation.</i>				
<p>This course is designed for the high-performing student. It is an advanced course covering the relationship among elements of space: points, lines and planes. Concepts are learned through intuition and inductive/deductive reasoning. There is a strong emphasis on proof and the development of geometry as an axiomatic system. Access to a graphing calculator is required.</p>				

CP Geometry

Grade(s): 9-10	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This is a course covering the relationship among the elements of space: points, lines, and planes. Concepts are learned through intuition and inductive/deductive reasoning. There will be an emphasis on discovery, applications of algebraic concepts, and proof. Access to a graphing calculator is required.				

Honors Algebra II

Grade(s): 10-11	1 Year	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: Successful completion of Honors Geometry with teacher recommendation.</i>				
This course is designed for the high-performing student. This is an advanced course including a review of Algebra I with applications of greater difficulty and more variety curves of second degree and higher, radicals, and the quadratic formula, linear programming and polynomials. Access to a graphing calculator is required.				

CP Algebra II

Grade(s): 10-12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This course is a review of Algebra I with applications of greater difficulty and more variety curves of second degree and higher, radicals, and the quadratic formula, linear programming and polynomials. Access to a graphing calculator is required.				

Quantitative Reasoning

Grade(s): 11-12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This course is a further application of the Common Core State Standards. Real world applications will be applied. The course will stress advanced quantitative reasoning topics such as statistics and financial applications. It will use algebra, geometry and discrete mathematics to solve problems.				

CP Statistics

Grade(s): 11-12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: Successful completion of Pre-Calculus or Algebra II and teacher recommendation.</i>				
This course is for students who will be entering a field of study that will require statistics coursework. Topics will include descriptive statistics, probability, random variables, binomial and normal probability distributions, tests of hypotheses, regression and correlation, analysis of variables, confidence intervals, data collection and experimental design, and sampling techniques. Access to a graphing calculator is required.				

CP Precalculus

Grade(s): 11-12	1 Year	1 Credit	NCAA Approved	
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Prerequisites: Successful completion of Algebra II and teacher recommendation.

This is a high-level math course covering the use of trigonometric functions in relation to vectors and complex numbers, angles in degrees and radian measures, logarithms, graphing, algebraic and analytic proofs, conics, and polar coordinates. A strong background in Algebra II is needed. Access to a graphing calculator is required.

CP Calculus

Grade(s): 12	1 Year	1 Credit	NCAA Approved	
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Prerequisites: Successful completion of Pre-Calculus with teacher recommendation.

This course is designed to prepare our students for collegiate Calculus and additional upper level collegiate math courses. Students will expand their knowledge of functions as they study the fundamental concepts of calculus: limiting behaviors, difference quotients and the derivative, Riemann sums and the definite integral, antiderivatives and indefinite integrals, and the Fundamental Theorem of Calculus. Students will enhance their problem-solving skills and learn to read, write, speak, and think in the language of mathematics.

CCP College Algebra - MAT 1470

Grade(s): 11-12	1 Semester	1 Credit		Weighted Grade
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Prerequisites: Successful completion of Algebra II and Test College Ready via the ACT or the ALEKS Placement Test

Polynomial, radical, rational, exponential and logarithmic functions and their graphs; roots of polynomial inequalities; systems of linear and nonlinear equations; matrices; and applications.

CCP Introduction to Statistics - MAT 1450

Grade(s): 11-12	1 Semester	1 Credit		Weighted Grade
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Prerequisites: Successful completion of Algebra II and Test College Ready via the ACT or the ALEKS Placement Test

An introduction to the fundamental ideas of statistics, including statistical methods to gather, analyze and present data; fundamentals of probability; statistical distributions, sampling distributions, confidence intervals, hypothesis testing, Chi-square tests, regression and correlation.

CCP Precalculus - MAT 1580

Grade(s): 11-12	1 Semester	1 Credit		Weighted Grade
<i>Prerequisites: Successful completion of Algebra II and Test College Ready via the ACT or the ALEKS Placement Test</i>				
Polynomial, radical, rational, exponential and logarithmic functions and their graphs, roots of polynomial functions, rational and polynomial inequalities, conic sections, systems of linear equations; sequences and series. Trigonometric functions of angles, solving right and oblique triangles, trigonometric identities and equations, vectors, radian measure, graphs of trigonometric functions, inverse trigonometric functions and applications. A scientific (non-graphing) calculator is required.				

CCP Calculus & Analytic Geometry - MAT 2270

Grade(s): 11-12	1 Semester	1 Credit		Weighted Grade
<i>Prerequisites: Successful completion of CCP Precalculus and Test College Ready via the ACT or the ALEKS Placement Test</i>				
Cartesian coordinate system, functions, limits and continuity of functions, the derivative and its applications, the integral and the Fundamental Theorem of Calculus. Derivatives and integrals involving piecewise, polynomial, rational, algebraic, exponential, logarithmic, trigonometric, inverse trigonometric and hyperbolic functions and their inverses.				

Math I, II, III & IV (Functional Curriculum)

Grade(s): 9-12	1 Year	1 Credit		
<i>Prerequisites: None</i>				
These courses are designed for students who are working within a functional curriculum and are alternately assessed (in lieu of state standardized testing). This curriculum will prepare students for living and working in the community. Individualized student goals in the areas of basic mathematical calculations, problem solving, general numerical reasoning, budgeting and everyday financial skills will be addressed.				

SCIENCE

Core Course Descriptions

CP Physical Science

Grade(s): 9	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
<p>This course is designed to give students a solid understanding of the basic concepts of the physical world including topics in physics, Earth science and chemistry. The focus is on real-world examples of energy transfer and topics covered include motion and forces, forms of energy, movement of the Earth's plates, the interaction of the oceans and atmosphere, the formation of the universe, waves, sound and light, matter, the atom and interactions of matter. Students will actively participate in hands-on activities that provide opportunities to use the scientific method, investigative and problem-solving skills. Students will use measurements and manipulation of simple formulas and will be introduced to significant figures. Students will be expected to use short writings to demonstrate their understanding of scientific concepts and how they affect their lives. Students will participate in the district Science Olympiad and describe the creation and testing of their chosen project.</p>				

CP Environmental Science

Grade(s): 9-10	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
<p>Man's influence and effect on the natural environment will be the major emphasis in this course. Topics will include Earth's systems, resources, deforestation, ozone depletion, pollution, greenhouse effect, population dynamics, and other current environmental issues affecting the planet. Teaching methods include worksheets, laboratory activities, demonstrations, and other hands-on experiences.</p>				

Honors Biology

Grade(s): 9-10	1 Year	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: None</i>				
<p>This course is designed for the high achieving student that will emphasize biological concepts, principles, and theories that enable people to understand the living environment. Students will be required to do projects such as research papers, and science fair. Students will be expected to submit formal lab reports. Many of the topics to be covered in this course include: (a) the nature and characteristics of life; (b) use and application of the scientific method; (c) cell structure; (d) genetics and inheritance; (e) cellular processes, photosynthesis, respiration, mitosis, and meiosis; (f) evolution; and (g) classification and phylogeny of the six kingdoms of life.</p>				

CP Biology

Grade(s): 10-11

1 Year

1 Credit

NCAA Approved

Prerequisites: None

This class is intended for college bound students. Students will be expected to submit formal lab reports. Many of the topics to be covered in this course include: (a) the nature and characteristics of life; (b) use and application of the scientific method; (c) cell structure; (d) genetics and inheritance; (e) cellular processes, photosynthesis, respiration, mitosis, and meiosis; (f) evolution; and (g) classification and phylogeny of the five kingdoms of life.

Honors Chemistry

Grade(s): 10-11

1 Year

1 Credit

NCAA Approved

Weighted Grade

Prerequisites: Successful completion or current registration in Algebra II or Pre-calculus and teacher recommendation

This course is designed for the high-performing student. It provides a broad look at the principles of inorganic chemistry, attempting to explain the structure and behavior of matter. This course includes lecture/discussion (80-85%) and lab (15 – 20%.) This course is recommended for college bound students who have a strong interest in science and math. This course is the prerequisite for AP Chemistry.

CP Chemistry

Grade(s): 10-12

1 Year

1 Credit

NCAA Approved

Prerequisites: None

This is a rigorous course in chemistry for college bound students who have an interest in science, math, and general chemistry concepts. It will provide students with a strong science background sufficient for future enrollment in Physics or introductory college chemistry. This course is not to be viewed as a foundation course for Chemistry II AP.

Science I, II, III & IV (Functional Curriculum)

Grade(s): 9-12

1 Year

1 Credit

Prerequisites: None

These courses are designed for students who are working within a functional curriculum and are alternately assessed (in lieu of state standardized testing). This curriculum will prepare students for living and working in the community. Students will be working on basic reading and writing skills, in addition to developing knowledge in the areas of life science, environmental science and general scientific processes/knowledge.

SCIENCE

Elective Course Descriptions

Makers Lab

Grade(s): 9	1 Semester	½ Credit		
<i>Prerequisites: None</i>				
You will join others in the library's Makers' Lab to learn, create and collaborate using the 3D printer and other materials for hands-on, team, STEM (Science, Technology, Engineering, and Math) or STEAM (Science, Technology, Engineering, Art, and Math) activities.				

CP Zoology

Grade(s): 11-12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This course is designed for students who have an interest in furthering their study of animals. This class will cover the entire Animal Kingdom in the following areas: examples, anatomy, physiology, taxonomy, evolution, and adaptations to the environment. This is a fast-paced course that is vocabulary driven and will involve the use of preserved and live specimens. Dissections and hands-on activities will be a required part of the class and your grade.				

CP Forensic Science

Grade(s): 11-12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This course is designed for students who have an interest in crime scene investigations and how science is used to gather evidence that can be used in a court of law. This course will cover concepts in chemistry, zoology, anatomy, genetics, physics, medicine, mathematics, statistics, sociology, psychology, communications, and the law. This course will require a number of hands-on activities and online research.				

CP Human Anatomy & Physiology

Grade(s): 11-12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
Human Anatomy & Physiology is a course designed to study the anatomy (body structure) and physiology (body function) of various body systems including the structure, function and diversity of those systems. Teaching methods may involve lecture/discussion and extensive hands-on cat anatomy dissection in teams of two. From the dissections each student will skillfully identify anatomical and physiological functions of the major vertebrate systems. Dissection of the various sheep organs will also supplement the dissection of the cat.				

CP Physics

Grade(s): 11-12

1 Year

1 Credit

NCAA Approved

Prerequisites: Successful completion of Algebra II or Pre-Calculus and good math skills.

This is a college preparatory course involving the vector study of motion, force, work, energy, and simple machines. Included are studies of heat, light, sound, relativity, astronomy, famous physicists and current physics topics. Good math skills are necessary. Prior completion of Chemistry I is recommended. This course is recommended for students interested in science, medical, or engineering careers.

AP Environmental Science

Grade(s): 11-12

1 Year

1 Credit

NCAA Approved

Weighted Grade

Prerequisites: Successful completion of Biology and Chemistry (C in Honors, B in Collegiate), at least one year of Algebra

This course is designed for the high-performing student that provides a rigorous in-depth look at the interactions of humans with the environment. The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Students in this class are required to take the AP Exam.

AP Chemistry

Grade(s): 11-12

1 Year

1 Credit

NCAA Approved

Weighted Grade

Prerequisites: Successful completion of Honors Chemistry

Given the speed with which scientific discoveries and research continuously expand scientific knowledge, many educators are faced with the challenge of balancing breadth of content coverage with depth of understanding. The AP Chemistry course addresses this challenge by focusing on a model of instruction which promotes enduring conceptual understandings and the content that supports them. This approach enables students to spend less time on factual recall and more time on inquiry-based learning of essential concepts, and it helps them develop the reasoning skills necessary to engage in the science practices used throughout their study of AP Chemistry. This framework encourages student development of inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, creating models and representations, applying mathematical routines, developing a scientific argument, and connecting concepts in and across domains. Students will be required to often work independently, recall material from their previous chemistry class, take notes, participate in class discussion and problem-solving, work safely in lab, complete assignments, and review material on a daily basis. Students in this class are required to take the AP Exam.

AP Physics

Grade(s): 11-12

1 Year

1 Credit

NCAA Approved

Weighted Grade

Prerequisites: Successful completion of Honors Algebra II with an "A" or "B" and concurrent registration in Pre-Calculus

This course is designed for the high-performing student in their first year of a 2-year sequence designed to prepare students for AP Physics 2. This course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. This course will require strong math skills and an intense intellectual curiosity. Graphing calculators will be required. Students in this class are required to take the AP Exam.

SOCIAL STUDIES

Core Course Descriptions

Honors World History 1600 - Present				
Grade(s): 9	1 Year	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: None</i>				
<p>This honors course examines world events from 1600 to the present and is designed to challenge college bound students performing at an advanced level. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.</p>				

CP World History 1600 - Present				
Grade(s): 9	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
<p>This intensive course examines world events from 1600 to the present and is designed to challenge college bound students performing at an advanced level. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.</p>				

CCP United States History I - HIS 1101				
Grade(s): 10-12	1 Semester	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: Test college ready via the ACT or the WritePlacer or successful completion of a college level English course</i>				
<p>Development of the people of the United States in political, social, economic and cultural areas from pre-Columbian American through the Reconstruction.</p>				

CCP United States History II - HIS 1201				
Grade(s): 10-12	1 Semester	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: Test college ready via the ACT or the WritePlacer or successful completion of a college level English course</i>				
<p>Sinclair Prerequisite(s): Any college level English course or placement test score Development of the people of the United States in political, social, economic and cultural areas from the Reconstruction through the present.</p>				

CP US History

Grade(s): 10	1 Year	1 Credit	NCAA Approved	
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Prerequisites: None

This intensive course examines the history of the United States of America from 1877 to the present and is designed to prepare students for the demands of college coursework. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. This course satisfies the American History graduation requirement.

CCP American Federal Government - PLS 1120

Grade(s): 11-12	1 Semester	1 Credit		Weighted Grade
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Prerequisites: Test college ready via the ACT or the WritePlacer or successful completion of a college level English course

American political system at the national level, including process of government; democratic theory and development of the U. S. Constitution; citizen participation through voting; interest groups and political parties; structure, functions and powers of legislative, executive and judicial branches; issues of civil liberties and equal rights.

CCP State and Local Government - PLS 1232

Grade(s): 11-12	1 Semester	1 Credit		Weighted Grade
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Prerequisites: Test college ready via the ACT or the WritePlacer or successful completion of a college level English course

The study of state and local governments (with emphasis on Ohio), organizational structures of state and local governments, state constitutions, county and city charters, state and local government powers and programs, financing, and taxation, and trends in government programs are all documented and analyzed.

CP US Government

Grade(s): 11	1 Year	1 Credit	NCAA Approved	
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Prerequisites: None

This intensive course examines the origins, structure, and function of government in the United States and is designed to prepare students for work at the community college or technical college level. Additionally, students will actively research, discuss and create plausible solutions for many of the social, economic and political issues confronting contemporary America, both domestically and abroad. Students will also do an in-depth study of political parties and the electoral process in America past and present. Individual student research projects, papers, and/or presentations are an essential part of this government course. This course satisfies the American Government graduation requirement.

SOCIAL STUDIES

Elective Course Descriptions

CCP General Psychology - PSY 1101				
Grade(s): 10-12	1 Semester	1 Credit		Weighted Grade
<i>Prerequisites: Test college ready via the ACT or the WritePlacer or successful completion of a college level English course</i>				
University-parallel course covering history and systems of psychology, behavioral research methods, physiology of behavior, sensation, perception, learning, memory, consciousness, cognition, personality, lifespan development, gender, social psychology, motivation, emotion, stress, mental disorders and therapies.				

CCP Introduction to Criminal Justice Science - CJS 1101				
Grade(s): 10-12	1 Semester	1 Credit		Weighted Grade
<i>Prerequisites: Test college ready via the ACT or the WritePlacer or successful completion of a college level English course</i>				
Overview of the criminal justice system and an analysis of the interdependence of its components, including legislative, law enforcement, prosecution, court and correctional systems. Examination of responsibilities of professionals in each of these systems, including ethical and legal responsibilities.				

CCP Introduction to Sociology - SOC 1101				
Grade(s): 10-12	1 Semester	1 Credit		Weighted Grade
<i>Prerequisites: Test college ready via the ACT or the WritePlacer or successful completion of a college level English course</i>				
A critical analysis of contemporary American society with review of major sociological theories, research methods, culture, socialization, groups, social structure, social institutions, deviance, social inequalities, social processes and social change.				

CCP Western Civilization I - HIS 1111				
Grade(s): 10-12	1 Semester	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: Test college ready via the ACT or the WritePlacer or successful completion of a college level English course</i>				
Major trends in the development of Western culture, emphasizing political, economic, social and cultural achievements, from prehistory to the seventeenth century.				

CCP Western Civilization II - HIS 1112

Grade(s): 10-12	1 Semester	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: Test college ready via the ACT or the WritePlacer or successful completion of a college level English course</i>				
Major trends in the development of Western culture, emphasizing political, economic, social and cultural achievements from the seventeenth century to the present.				

Psychology

Grade(s): 10-12	1 Semester	½ Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This course is the study of different behaviors in people. Students will explore states of consciousness, biology and behavior, psychological disorders, and gender roles as reasons as to why people behave as they do in specific situations. Also explored are issues of improving our personalities, attitudes, relationships and emotions.				

Economics

Grade(s): 10-12	1 Semester	½ Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This course explores the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants. More specifically, it examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security.				

Sociology

Grade(s): 10-12	1 Semester	½ Credit	NCAA Approved	
<i>Prerequisites: None</i>				
Using a variety of discussion techniques, group activities, and research, students will study basic principles of sociology and social issues. Included in the class discussions will be a study of culture, roles of people within a society, methods to develop and maintain relationships, problems within relationships and possible solutions to these problems, marriage and family, and other social institutions.				

African American History I Pre 20th Century

Grade(s): 10-12	1 Semester	½ Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This course is designed to give a rich overview of African American history prior to the 20th century. This survey will address aspects of traditional African history and culture, origins of Africans in America including the slave trade and colonial America, as well as the social, political and economic stresses that take America to Civil War and Reconstruction. Included in this survey are historical analyses that address changes in law and culture and				

that push towards a deeper understanding of the creation of “race” in America.

African American History II 20th and 21st Centuries

Grade(s): 10-12

1 Semester

½ Credit

NCAA Approved

Prerequisites: None

This course is designed to give a rich study and analysis of African American history from Reconstruction to contemporary America. This class will address many of the legal, political and social issues that have shaped modern Black life in America. Included in this study are Constitutional and legal changes since Reconstruction and Nadir, immediate and long term impacts of the Great Migration, the development of African-American social, educational and business institutions in America, The Harlem Renaissance, the struggle for Civil Rights, America post-Civil Rights Era, the creation of Hip Hop and issues of race and culture facing contemporary America.

Introduction to Women’s Studies

Grade(s): 10-12

1 Semester

½ Credit

NCAA Approved

Prerequisites: None

This course draws on feminist ideas and scholarship in developing historical, theoretical and cross-cultural frameworks for the comparative study of women and gender. Questions addressed include: What does it mean to study “women” as a group? When is it useful to focus on commonalities among women, when is it necessary to stress differences? In what ways do gender differences and gendered power relations organize the social world and shape people’s experiences and self-perceptions? The course aims to sharpen students’ critical awareness of how gender operates in institutional and cultural contexts and in their own lives, and to give them an opportunity to imagine participating in social change.

Civics and Contemporary Issues

Grade(s): 9

1 Semester

½ Credit

NCAA Approved

Prerequisites: None

You will make connections between citizens of the United States and current events of the world. You will examine issues that are confronting the United States and how those issues can affect its people and how the US government can respond.

History Through Media

Grade(s): 9

1 Semester

½ Credit

Prerequisites: None

This course investigates historical events and topics through the lens of different media formats. Students will analyze films, interpret music, and explore historical documents and artifacts from 1600 - present.

FOREIGN LANGUAGE

Elective Course Descriptions

CP Spanish I				
Grade(s): 9-12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
<p>Spanish 1 presents the basics of the Spanish language. Students learn greetings, verb conjugations, basic vocabulary, pronunciation, and grammatical structures and get a glimpse of the Spanish-speaking world. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Spanish-speaking world and their culture, people, geographical locations and histories. Students develop a beginning reading and conversational ability, laying the foundation for further study of the language. The course emphasizes understanding and practical application. Students should have a basic understanding of English grammar before beginning this course.</p>				

CP Spanish II				
Grade(s): 10-12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: Successful completion of Spanish I</i>				
<p>Spanish II expands on the basics of level 1 with a focus on the past tense. Students will continue to further develop and improve listening, speaking, reading, and writing skills. Emphasis is placed on comprehension of vocabulary and grammatical structures. Culture continues to be sprinkled throughout the course in an attempt to help the learner focus on the Spanish-speaking world and their culture, people, geographical locations and histories.</p>				

Honors Spanish III				
Grade(s): 11-12	1 Year	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: Successful completion of Spanish II</i>				
<p>Spanish 3 Honors expands on the basics of level 1 and 2 with a focus on the past tenses, future tense, conditional, perfect tenses, as well as, the subjunctive mood. Students in this course will work in greater depth with more focus on listening, writing, reading and speaking, as well as, building vocabulary. Since students are preparing for the Advanced Placement course, short and long essays and email responses will be included, along with practice of radio podcasts. Students will be encouraged to speak only in the target language. In addition, students will be given ample opportunities to practice their proficiency skills through Integrated Performance Assessments and projects, as well as, leading class discussions on a variety of themes.</p>				

CP French I

Grade(s): 9-12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
This course is designed for the student with no prior language experience. This course introduces college bound students to the target language and its culture. Students will use the four basic skills of listening, speaking, reading, and writing. Students will participate in various language learning activities such as dialogues and skits, writing a journal, reading about different cultures, etc.				

CP French II

Grade(s): 10-12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: Successful completion of French I</i>				
This course reviews the skills already learned by the students with more advancement in pronunciation, vocabulary, structure and reading.				

Honors French III

Grade(s): 11-12	1 Year	1 Credit	NCAA Approved	Weighted Grade
<i>Prerequisites: Successful completion of French II</i>				
This course is centered on refining the spoken and written aspects of the language. Students will be exposed to more culture, literature, and writing opportunities. The material covered in the course will expand on the basics covered in French I and French II, with a focus on a variety of grammatical tenses and vocabulary for describing our lives, interests and current events.				

CP American Sign Language I

Grade(s): 11-12	1 Year	1 Credit	NCAA Approved	
<i>Prerequisites: None</i>				
The students will develop expressive and receptive knowledge in ASL vocabulary, cultural aspects, grammatical features, and conversational comprehensive and expressive skills. Students in ASL will be interacting both expressively (signing) and receptively (reading what is signed) on a daily basis with their peers in a wide range of conversational situations. These include but are not limited to one on one conversation, group conversations, standing in front of the class presenting and providing feedback, and other social interactions. Students must feel comfortable with this interaction, as there are no expectations.				

CP American Sign Language II

Grade(s): 12

1 Year

1 Credit

NCAA Approved

Prerequisites: Successful completion of American Sign Language I

Students will continue to build upon vocabulary, cultural aspects, grammatical features and conversational comprehensive and expressive skills through classroom activities, assignments, and projects. Students will complete informational speeches, songs, as well as sign scenarios, journal topics and take part in silent month. Students in ASL II must have passed ASL I with a grade of "C" or higher and receive a teacher recommendation. Consistent attendance is a critical component of ASL II as projects and exams must be completed during class.

BUSINESS AND TECHNOLOGY

Elective Course Descriptions

Beginning Accounting

Grade(s): 10-12

1 Semester

½ Credit

NCAA Approved

Prerequisites: None

This course provides the fundamentals of accounting. It covers accounting terminology such as: revenue, expenses, net income, debits and credits and the accounting equation. Topics include analyzing, journalizing and posting transactions; adjusting and closing entries and completion of the work sheet for a service business. In addition, students learn to create financial statements and how to interpret meaningful information from the balance sheet, income statements and cash flow statements. This course is highly recommended for any student considering a career in business. Accounting is a required class of every College Business Major.

Law for Business and Personal Use

Grade(s): 10-12

1 Semester

½ Credit

NCAA Approved

Prerequisites: None

This course gives students an understanding of legal principles that can help them relate more effectively with the problems of everyday living. Through the study of true situations students will see how business and personal law impacts not only business, but the lives of young people and adults as well. This course is highly recommended for any student who plans on a college business or pre-law major.

Keys to Financial Success

Grade(s): 9

1 Semester

½ Credit

NCAA Approved

Prerequisites: None

This class will help students evaluate resources, financial institutions, and services that meet individual, family, and business goals. Protecting your financial needs including credit and debit, preventing loss of assets, and advocating public policy issues that impact financial well-being will be discussed. As students mature, they will be required to be more personally responsible to actively manage their finances throughout their lives and this course will help them develop sound financial practices.

FINE ARTS

Elective Course Descriptions

Art II

Grade(s): 9-12

1 Semester

½ Credit

Prerequisites: None

This course is designed for students to explore art in greater depth from Art I, with emphasis on control of art media, technique, and creativity. Students will gain a deeper understanding of art concepts using the Elements and Principles of Design. New media and techniques in two and three dimensional work will be presented.

Ceramics I

Grade(s): 10-12

1 Semester

½ Credit

Prerequisites: None

This course is designed as an introduction to clay while using a variety of hand building techniques. Both functional and sculptural pieces will be created. Students will also be educated in basic ceramic principles, design techniques, and a variety of surface decorations.

Ceramics II

Grade(s): 11-12

1 Semester

½ Credit

Prerequisites: Successful completion of Ceramics I

This course is designed for students who are interested in building upon their previous knowledge of ceramics. It is geared for the student who is motivated to undertake very ambitious work in clay and further their understanding of ceramic art as a means of artistic expression. Students will also learn new techniques in sculpture, form alteration, and surface decoration.

3D Art

Grade(s): 10-12

1 Semester

½ Credit

Prerequisites: None

This course introduces students to the basic skills, techniques and various methods used to create sculpture in various media. Students will work with a variety of three dimensional materials which may include, but are not limited to, paper, clay, plaster, wood, and wire. Students will create sculptures as a means for visual communication and expression.

Metals I

Grade(s): 10-12

1 Semester

½ Credit

Prerequisites: None

This course offers a variety of experiences in the fabrication of jewelry and small metal sculpture. Students will learn basic cutting, soldering, and riveting on a variety of metal types. This course is intended for the serious art student who wants to further their art knowledge in a new medium.

Metals II

Grade(s): 11-12

1 Semester

½ Credit

Prerequisites: Successful completion of Metals I

Metals II students will build on the skills and techniques taught in Metals I to construct more intricate and complex pieces such as enameling, setting of stones and hollow forms. Students individual expression in metals is emphasized.

Drawing & Painting I

Grade(s): 10-12

1 Semester

½ Credit

Prerequisites: None

This course is for students that are interested in creating and developing skills through a variety of drawing and painting techniques in a multitude of different two-dimensional mediums. This is a fast paced course that allows students to develop skills in a variety of new processes and techniques as they relate to drawing and painting.

Drawing & Painting II

Grade(s): 11-12

1 Semester

½ Credit

Prerequisites: Successful completion of Drawing & Painting I

This is the ideal course for students who have taken Drawing and Painting I, who may want to take AP Art, or who plan to focus on art in College. Students will develop their skills in drawing from life, explore techniques using a wider range of materials and styles, and focus on more challenging subjects, like people, places, and animals. Students will also use their growing skills to create artwork that deals with more personal and complex subject-matter, and in the process, they will establish a more unique and individual artistic voice.

Digital Photography

Grade(s): 10-12

1 Semester

½ Credit

Prerequisites: Students are required to have an operating digital camera or phone with a camera

This class provides a foundation for taking successful digital images. Students will learn the basics of successful composition and how to manipulate images. Students will use a mixture of Affinity Photo and online photo editing software to create a number of digital files.

Digital Photography II

Grade(s): 11-12

1 Semester

½ Credit

Prerequisites: Successful completion and passing of Digital Photo I and have an operating digital camera or phone with camera in order to participate

This is the ideal course for students who have taken Digital Photography I and want to continue developing their skills using advanced digital techniques. Students will develop their skills in photographing complex compositions, exploring digital techniques using a wider range of skills, and focus on more challenging techniques to manipulate images using Affinity Photo and mixed media.. Students will also use their growing skills to create artwork that deals with more personal and complex subject-matter, and in the process, they will establish a more unique and individual artistic voice. This class will participate in a special project with The Fitton Center in Hamilton to create artwork that will be exhibited among other area high schools. Through this collaboration with the Fitton Center, students will have a chance to work with an outside artist, develop artworks for a nature theme, curate an exhibit, and attend an art opening of their work and the work of others.

Public Art

Grade(s): 10-12

1 Semester

½ Credit

Prerequisites: None

This is a hands-on, project based class in which students will work together to create murals in chosen locations within Hamilton High School. Students will learn about the process of creating murals and works of public art from the ground up - from brainstorming, sketching, and planning to cooperation, wall-prep, and both basic and advanced painting techniques, as well as preservation. This course is ideal for students of all ability levels who are interested in the real world impact of the arts and collaborating to create something bigger than themselves.

AP Art Studio

Grade(s): 10-12

1 Year

1 Credit

Weighted Grade

Prerequisites: Successful completion of Art II and three other Fine Arts classes

Studio Art is a fast paced challenging course for the student interested in pursuing a career path in art. Students will focus on advanced visual problem solving and must be self-motivated with excellent art skills. Students will address all three sections of the portfolio: Breadth, Concentration, and Quality. Units in all four components of art: history, aesthetics, criticism and studio will be explored. Each AP student will develop a portfolio which requires submission to the College Board. Summer work is required.

PERFORMING ARTS

Elective Course Descriptions

Freshman Band

Grade(s): 9	1 Year	1 Credit	
<p><i>Prerequisites: Successful audition or teacher recommendation as well as participation in summer rehearsals and 10-day band camp</i></p>			
<p>Membership is open to all instrumental students based upon director's recommendation and/or successful audition. Throughout the course of the year, students will explore the various genres of music through performance. This course includes participation in concert, marching and pep bands, and is required for students wishing to perform in jazz band. Band includes rehearsals and performances outside of the scheduled school day that are mandatory for all students. Performances include: concerts, competitions, parades, football games, basketball games and other public performance opportunities at the discretion of the band director. There are uniform and other personal costs associated with membership in the band.</p>			

Freshman Voices

Grade(s): 9	1 Year	1 Credit	
<p><i>Prerequisites: Successful audition or teacher recommendation</i></p>			
<p>Participation in this mixed chorus furthers students' vocal training and prepares them for choruses at Hamilton High School. Students will perform in events deemed appropriate by the director. Attendance at all performances is mandatory. There are uniform and other personal costs associated with membership in the chorus.</p>			

Freshman Orchestra

Grade(s): 9	1 Year	1 Credit	
<p><i>Prerequisites: Successful audition or teacher recommendation</i></p>			
<p>String orchestra comprised of freshman students who have qualified through successfully completing participation in their 8th grade orchestra and have been recommended for placement in the upper freshmen orchestra by their instructor. Consideration is given to student qualifications and proper balance of instrumentation in the orchestra. Students will perform a wide variety of orchestra music literature. Attendance is mandatory at all performances. There are uniform and other personal costs associated with membership in the Symphony Orchestra.</p>			

Concert Band

Grade(s): 10-12

1 Year

1 Credit

Prerequisites: Successful audition or teacher recommendation prior to summer rehearsals

Membership is open to all instrumental students based upon director's recommendation and/or successful audition. Throughout the course of the year, students will explore the various genres of music through performance. This course includes participation in concert, marching and pep bands, and is required for students wishing to perform in jazz band and indoor drumline. Band includes rehearsals and performances outside of the scheduled school day that are mandatory for all students. Performances include: concerts, competitions, parades, football games, basketball games and other public performance opportunities at the discretion of the band director. There are uniform and other personal costs associated with membership in the band. Students may be excused from the marching band component if approved through the Band Director and HCSD Fine Arts Department.

Symphonic Band

Grade(s): 10-12

1 Year

1 Credit

Prerequisites: Successful audition or teacher recommendation prior to summer rehearsals

Membership is based upon director's recommendation and/ or successful audition. Throughout the course of the year, students will explore the various genres of more advanced music through performance. This course includes participation in concert, marching and pep bands, and is required for students wishing to perform in jazz band and indoor drumline. Band includes rehearsals and performances outside of the scheduled school day that are mandatory for all participating students. Performances include: concerts, competitions, parades, football games, basketball games and other public performance opportunities at the discretion of the Band Director. There are uniform and other personal costs associated with membership in the band. Students may be excused from the marching band component if approved through the Band Director and HCSD Fine Arts Department.

Concert Chorale

Grade(s): 10-12

1 Year

1 Credit

Prerequisites: None

This is a large vocal ensemble open to all grade levels. Students will perform a wide variety of choral music literature. Registration is by permission of teacher. Attendance is mandatory at all performances. There are uniform and other personal costs associated with membership in the Concert Chorale. Second semester is contingent on student progress and participation.

Treble Choir

Grade(s): 10-12

1 Year

1 Credit

Prerequisites: Successful audition or teacher recommendation

This will be an auditioned ensemble of 30 to 40 women that meets daily and offers female students a variety of enriched musical opportunities. Students will enhance their knowledge of choral literature, music theory concepts, and will achieve a higher degree of perfection in the performance and understanding of the choral repertoire. The girls in this group will also perform show choir music and learn the art of singing and dancing. Weekly group lessons are a part of the curriculum for this class. Repertoire is selected to provide sequential, systematic concepts and performance skills associated with varying musical content and style. The girls in this group will have the opportunity to participate in an adjudicated event.

Rhapsody in Blue

Grade(s): 9-12

1 Year

1 Credit

Prerequisites: Successful audition and a 5 day summer camp

This select show choir will perform to a variety of music enhanced by choreography. They will represent the school throughout the Tri-County area. Second semester is contingent upon student progress and participation. In addition to daily class time rehearsals, evening rehearsals take place on Monday evenings (all year) and Thursday evenings (March through June). Attendance is mandatory at all performances. There are uniform and other personal costs associated with membership in Rhapsody in Blue.

Concert Orchestra

Grade(s): 10-12

1 Year

1 Credit

Prerequisites: Successful audition or teacher recommendation

String orchestra open to all high school students grades 10 – 12 who have successfully completed participation in their previous year orchestra class. Students will perform a wide variety of orchestra music literature. Attendance is mandatory at all performances. There are uniform and other personal costs associated with membership in the Symphony Orchestra.

Symphony Orchestra

Grade(s): 10-12

1 Year

1 Credit

Prerequisites: Successful audition or teacher recommendation

String orchestra comprised of students in grades 10 – 12 who have qualified through successful participation in orchestra the previous year and have passed an audition for placement in the top orchestra. Enrollment is by Instructor's permission only. Consideration is given to student qualifications and proper balance of instrumentation in the orchestra. Students will perform a wide variety of orchestra music literature. Attendance is mandatory at all performances. There are uniform and other personal costs associated with membership in the Symphony Orchestra.

AP Music Theory

Grade(s): 11-12

1 Year

1 Credit

Weighted Grade

Prerequisites: Teacher recommendation

The ultimate goal of an AP Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. The achievement of these goals may best be approached by initially addressing fundamental aural, analytical, and compositional skills using both listening and written exercises. Building on this foundation, the course should progress to include more creative tasks, such as the harmonization of a melody by selecting appropriate chords, composing a musical bass line to provide two-voice counterpoint, or the realization of figured-bass notation.

HEALTH AND PHYSICAL EDUCATION

Course Descriptions

Health

Grade(s): 9-12

1 Semester

½ Credit

Prerequisites: None

This course places emphasis on how the human body works, mental and social issues, and teenage stress with special emphasis on units on tobacco, alcohol and drug use. Additionally, a full CPR unit will be taught leading to Red Cross certification for those students who pass this course with an 80%.

Nutrition and Healthy Lifestyle

Grade(s): 9

1 Semester

½ Credit

Prerequisites: None

This class will combine both nutrition education and fitness with a focus on how one complements the other. Topics will include goal setting, exploration of a variety of fitness options, and making healthy food choices by understanding food and how it benefits your workout and body composition. This class will provide you with information to help you make healthy choices and maximize workouts. We will use a combination of information and activities, as well as working with the school cafeteria on nutritional information to help you make the best choices at breakfast and lunch time. Our goal is to provide you with skills/strategies you can take with you after the class is over.

Health and Wellness

Grade(s): 9

1 Semester

½ Credit

Prerequisites: None

You will improve your overall health and wellness through social interactions with peers while participating in lifetime fitness activities (walking, yoga, pilates) and tracking your blood pressure, heart rate, and mood to develop a healthy outlook on everyday life. Topics for mood stabilization and socialization include reducing stress through controlled breathing, reading, journaling, a good night's sleep, and peer support.

Fit for Life

Grade(s): 9

1 Semester

¼ Credit

Prerequisites: None

This course is designed for students interested in increasing their cardiovascular fitness level. Specific areas will include but not be limited to: step aerobics, regular aerobics, yoga, pilates, dance, circuit training, weight training with hand weights, and jogging/power walking.

Team Sports

Grade(s): 9-12

1 Semester

¼ Credit

Prerequisites: None

You will participate in a variety of team sports focusing on skills, strategies and rules. If you have mastered the basic skills and enjoy the competitive edge, then this is the class for you. Skilled, competitive games will test your abilities. Grading will be based on skill achievement, rule knowledge and strategy implementation.

Strength Training

Grade(s): 10-12

1 Semester

¼ Credit

Prerequisites: None

The class teaches the importance of proper warm-up and stretching as well as proper lifting technique and strength training principles. Students will become more familiar with exercises that can be used to maintain a healthy lifestyle as well as improve the strength, conditioning, and skills that are applicable to a student's particular sport(s).

NAVAL JUNIOR RESERVE OFFICER TRAINING CORPS

Course Descriptions

Naval Science is designed for both college prep and general education students who are interested in further developing their leadership potential. These courses include three days per week of classroom instruction, one day of drill/military instruction, and one day of physical training. Students must be capable of participating in the physical training portion of the curriculum. When possible, field trips to military activities are planned each year. Extracurricular activities associated with the class include drill team, color guard, marksmanship (air rifle) team, academic team, athletic team, and orienteering team, all with competitions against other schools and other JROTC teams. Students will be expected to wear the NJROTC uniform (provided at no cost to the student) one day per week. Up to twenty students per year are normally afforded the opportunity to attend a one week long mini-boot camp and basic leadership training course during spring break, or during summer vacation.

Introduction to NJROTC				
Grade(s): 9	1 Semester	½ Credit		
<i>Prerequisites: None</i>				
This course serves as an introduction to NJROTC with tenets of leadership, physical fitness and teamwork. Students considering this course would be those who have an interest in NJROTC but may not be ready to fully commit to the rigor of the full-year program.				

Naval Science I				
Grade(s): 9-12	1 Year	1 Credit		
<i>Prerequisites: None</i>				
An introduction to the meaning of citizenship, the elements of leadership and the importance of scholarship in attaining life goals; teaches the discipline, teamwork, and values associated with the U.S. Naval Service and the significance that sea power has made in the development of our nation. Curriculum includes Introduction to Leadership, Citizenship, Foundations of Our Government, Naval Ships, Naval Aviation, Military Customs, Courtesies, Etiquette, and Ceremonies, and an Introduction to Military Drill.				

Naval Science II				
Grade(s): 10-12	1 Year	1 Credit		
<i>Prerequisites: Successful Completion of Naval Science I and teacher recommendation</i>				
This course builds on the basics of NS-1, continuing development of leadership traits and principles. Naval Science 2 Cadets are promoted and assigned to junior leadership positions with the Hamilton NJROTC Unit. Curriculum is divided into Maritime History and Nautical Sciences, to include Maritime Geographic, Oceanography, Meteorology, Astronomy, and Physical Science. Students also progress into a more advanced level of Military Drill training. Two Naval Science 2 Cadets, selected for top leadership positions in the Hamilton NJROTC Unit for the following year, will attend a one or two-week formal Leadership Academy during the summer, along with Cadets from other schools around the country. The Leadership Academy is conducted at the Naval Training Center, Great Lakes, Illinois, or at another appropriate military training facility.				

Naval Science III

Grade(s): 11-12

1 Year

1 Credit

Prerequisites: Successful Completion of Naval Science II and teacher recommendation

Naval Science 3 Cadets are closely involved in the planning and execution of a multitude of NJROTC Unit activities and also provide key assistance to the Naval Science Instructors in the administration of the NJROTC Program at Hamilton High School. Naval Knowledge portion of the curriculum includes Sea Power and National Security, Naval Operations and Support Functions, Military Law, and International Law and the Sea. Naval Skills portion of the curriculum includes Ship Construction and Damage Control, Shipboard Organization, Basic Seamanship, Marine Navigation, Nautical Rules of the Road, and Naval Weapons and Aircraft.

Naval Science IV

Grade(s): 12

1 Year

1 Credit

Prerequisites: Successful Completion of Naval Science III and teacher recommendation

Naval Science 4 Cadets will be the student leadership of the NJROTC Unit. They will develop a better understanding of leadership traits and principles and be afforded the opportunity to apply these traits and principles in leadership situations within the NJROTC Unit.

ADDITIONAL ELECTIVES

Course Descriptions

Evolution of Games

Grade(s): 9	1 Semester	½ Credit		
<i>Prerequisites: None</i>				
<p>Gaming doesn't only mean video games. Gamers also play board games, card games, simulations and participate in interactive stories. In this course, students will explore ancient cultures and their games, and find out how they designed games using available technology and resources. Students will learn the fundamentals of game design and discover how the mechanics are similar across the ages.</p>				

Thyssenkrupp Bilstein High School Apprenticeship Program

Grade(s): 12	1 Year	2 Credits		
<i>Prerequisites: None</i>				
<p>The goal of this year-long program, offered to seniors, is to give students the opportunity to earn a MSSC (Manufacturing Skill Standards Council) certification while working 6-12 hours per week at thyssenkrupp Bilstein. thyssenkrupp Bilstein is a world class manufacturer of shock absorbers and is located at 8685 Bilstein Blvd, Hamilton OH 45015. Through the MSSC certification course, students will learn about manufacturing processes, safety, quality, and continuous improvement; this will align with the hands-on experience students will gain by working in our manufacturing facility. The goal is to prepare students for work in the advanced manufacturing sector, whether entering directly after high school or deciding to further their education in business management, engineering, or supply chain. This program will be offered the last two periods of the school day, and will alternate days working at thyssenkrupp Bilstein and taking the MSSC certification courses. Course work will be taught by an MSSC certified instructor at Hamilton High School and will qualify for College Credit Plus. The student and their parent/guardian will be required to sign an agreement acknowledging their understanding of the expectations of participating in this program. For more information on the MSSC certifications go to www.msscusa.org.</p>				

Leadership

Grade(s): 10	1 Year	1 Credit		
<i>Prerequisites: None</i>				
<p>This course presents students the opportunity to gain an understanding of who they are as individuals and how their leadership style and skill impacts those they lead. Through a curriculum designed to encourage conversations and open dialogue about effective leadership strategies and practices, students are exposed to multiple novels and pieces of text throughout the year that provide ample opportunities for reflection about examples of great leadership as well as instances where they have seen or experienced poor leadership.</p> <p>Additionally, the course has developed a partnership with the local YMCA and is proud to incorporate the Y-Achievers curriculum into the course.</p>				

CAREER TECHNICAL PROGRAMS

Automotive Course Descriptions

Outdoor Power Technology

Grade(s): 10

1 Year

1 Credit

Prerequisites: None

Students will perform technical skills needed to maintain, diagnose and repair outdoor power equipment. Students will learn the theory of power and examine the aspects of repairing various engines, drive trains, and ancillary systems that make up modern small engine powered equipment. In addition, students will develop troubleshooting skills for 2- and 4-stroke engines, electrical and fuel systems. Throughout the course, site and personal safety procedures along with business principles will be emphasized.

Ground Transportation Electrical/Electronics

Grade(s): 11

1 Semester

1 Credit

Prerequisites: Students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year)

Students will perform technical skills needed to maintain, diagnose and repair outdoor power equipment. Students will learn the theory of power and examine the aspects of repairing various engines, drive trains, and ancillary systems that make up modern small engine powered equipment. In addition, students will develop troubleshooting skills for 2- and 4-stroke engines, electrical and fuel systems. Throughout the course, site and personal safety procedures along with business principles will be emphasized.

Engines and Drive Trains

Grade(s): 11

1 Semester

1 Credit

Prerequisites: Students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year)

Students will inspect, adjust and repair internal combustion engines and drivetrain. Topics include physical and mechanical principles of engines, transmissions and transaxles, differentials and cooling systems. Students will learn precision measurement, inspection, and reconditioning techniques. Students will also identify customer's needs, determine labor rates, and create estimates.

Automotive Braking, Suspension, and Steering Systems

Grade(s): 12

1 Semester

1 Credit

Prerequisites: Successful completion of the junior program and teacher recommendation

Students will perform inspections, troubleshoot malfunctions and service automotive undercarriage systems. Students will identify poor performing hydraulic brake systems and replace malfunctioning components. Students will install coil and leaf springs, shock absorbers and struts, and replace wheel bearings. Students will inspect and replace automotive steering components and perform wheel alignments. Additionally, students will disable and enable supplemental restraint systems (SRS) and replace anti-lock brake systems components.

Ground Transportation Maintenance

Grade(s): 12

1 Semester

1 Credit

Prerequisites: Successful completion of the junior program and teacher recommendation

In this course, students will apply the skills needed to inspect and perform general service on vehicles. Students will research applicable service information and technical service bulletins, and perform maintenance on vehicles. Students will inspect and service engine, drivetrain, suspension, steering, electrical and braking systems. Students will perform ignition maintenance including spark plug and ignition wire and coil pack replacement. Additionally, students change fluids, filters and inspect vehicles for leaks and fluid condition. Students are required to wear safety glasses, non-slip work shoes and appropriate clothing to work in the automotive lab.

Type of Job Opportunities

Automotive service technician, shop owner, service advisor, medium and heavy truck technician, heavy equipment technician, automotive parts sales, automotive collision repair, automotive sales, automotive industry representative, automotive engineer.

Technical Training or College Opportunities beyond High School

Both two- and four- year programs related to automotive service are offered beyond high school at various colleges. Sometimes employers offer tuition reimbursement programs.

CAREER TECHNICAL PROGRAMS

Construction/Carpentry Course Descriptions

Carpentry and Masonry Technology				
Grade(s): 10	1 Year	1 Credit		
<i>Prerequisites: None</i>				
<p>This first course in the pathway will introduce to students the materials, methods, and equipment used in carpentry and masonry. Students will organize a project work sequence by interpreting plans and diagrams within a construction drawing set. They will layout and install basic wall, floor and roof applications. Students will perform introductory concrete applications including formwork, reinforcement, mixing, and finishing. Current advancements in technology, safety, applicable code requirements and correct practices are learned.</p>				

Structural Systems				
Grade(s): 11	1 Year	1 Credit		
<i>Prerequisites: Students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year)</i>				
<p>Students will learn procedures and techniques required for layout and framing of walls and ceilings, including roughing-in door and window openings, constructing corners and partitions; bracing walls and ceilings; and applying sheathing. Students will learn methods of roof, and wood stair framing. Students will learn site and personal safety, material properties, design procedures, and code requirements for structural systems.</p>				

Structural Cover and Finish, Carpentry and Masonry Technology & Construction Pre-Apprenticeship and Capstone Project				
Grade(s): 12	1 Year	3 Credits		
<i>Prerequisites: Successful completion of the junior program and teacher recommendation</i>				
<p>Students will organize a project work sequence by interpreting plans and diagrams within a construction drawing set. They will layout and install basic wall, floor and roof applications. Students will perform introductory concrete applications including formwork, reinforcement, mixing, and finishing. Current advancements in technology, safety, applicable code requirements and correct practices are learned. Students will also go out in the field to put their skillset to use on projects around the community.</p>				

Type of Job Opportunities

Residential construction, commercial construction, cabinet making, lumber/hardware supply companies, home improvement companies .Technical Training or College Opportunities beyond high school: Both two- and four-year programs related to carpentry are offered beyond high school at various colleges. Sometimes employers offer tuition reimbursement programs.

CAREER TECHNICAL PROGRAMS

Cosmetology Course Descriptions

Microblading/Infection Control & Fundamentals of Haircuts/Styling

Grade(s): 11

1 Year

3 Credits

Prerequisites: Students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year)

Junior cosmetology students will learn competencies and basic skills that will lead to professional practices. During the Junior year students will develop basics practices and skills in hair care, hair-cutting, styling, perming, tint, bleach, highlighting, manicures and pedicures. Students will learn soft skills, and daily practices related to work ethics, professional ethics, communication skills, professional conduct, leadership and job responsibility. Cosmetology involves learning related studies in electricity, chemistry, anatomy, physiology, microbiology, universal precautions, procedures in sanitation, disinfection, blood spills, sterilization procedures, salon safety, public safety, basic emergency situations and basic first aid. Students are required to learn the rules and standards set forth by The Ohio State Board of Cosmetology. Students will learn procedures to maintain tools, equipment and how to provide client safety and provide a clean, safe and sanitary salon environment. Salon office /receptionist skills, inventory, stock supplies and dispensary requirements will be instructed and practiced. Students will learn about FDA, EPA, efficacy labels, OSHA, OSBC and meet all requirements related to Cosmetology. The Cosmetology program requires 100% Attendance. Any and all absent days from the program, regardless of the reason, must be made up. Due to the stringent attendance requirements, the Cosmetology program requires a fulfillment of distance learning hours that must be fulfilled before school, after school and on weekends. Junior students are required to fulfill an unpaid 100 Hour Summer Salon Internship Program between the Junior & Senior year.

Trichology & Fundamentals of Chemical Services

Grade(s): 12

1 Year

3 Credits

Prerequisites: Successful completion of the junior program, teacher recommendation and students must remain on schedule to pass 8 semesters of English, Math and/or Science before graduation.

Senior cosmetology students will address all the above. competencies described in the Junior Cosmetology program. Emphasis will be placed upon performing all competencies with a greater degree of technical knowledge, accuracy and speed. Skills practiced in the senior year also include performing facials, make-up, artificial nail procedures, removing superfluous hair, advanced hair cutting, hair styling, hair coloring and chemical services. Competencies and professional services/techniques will be improved through practiced by performing Cosmetology services on models and clients. Successful completion of the senior year will result in the student applying for and taking the Ohio State Board of Cosmetology/ Licensure Exam. The exam is taken in Columbus, Ohio after high school graduation. Butler Tech will pay for the first attempt students who successfully complete the program to take their Ohio State Board of Cosmetology Licensure Exam.

CAREER TECHNICAL PROGRAMS

Digital Media Course Descriptions

Multi-Media Web Production

Grade(s): 10	1 Year	1 Credit		
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Prerequisites: None

The focus of this course is on merging different types of media on the Internet. Students combine text, still photography, audio, videography and graphic arts to create interactive Web pages. They demonstrate creative, digital storytelling accessible from multiple platforms. Students learn project management and marketing. They learn how to create Web content that is accessible by individuals with visual disabilities.

Audio Broadcast

Grade(s): 11	1 Year	1 Credit		
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Prerequisites: Students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year)

Sound is essential to broadcast journalism and advertising. Students compare and contrast how sound alone and sound combined with visuals can entertain, inform and initiate action. They generate content, record, edit, mix and produce voice and music for airwaves, podcast and/or Internet. They adapt for analog and digital audio while adhering to Federal Communication Commission rules and regulations related to bandwidth and advertising.

Video Production

Grade(s): 11	1 Year	1 Credit		
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Prerequisites: Students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year)

This course focuses on video production for commercial use. Students plan and coordinate work with clients to produce projects on a tight timeline. They learn how to read and interpret a script, select and maintain equipment and combine graphics, text and special effects. Skills attained include pre-production documentation and planning; in-production audio and video recording; and post-production editing and distribution.

Video Broadcast

Grade(s): 12	1 Year	1 Credit		
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Prerequisites: Successful completion of the junior program and teacher recommendation

This course focuses on video broadcast for the journalism industry. Skills attained include interviewing, image capture, color manipulation, audio and video blend, lighting and editing. Students critique news broadcasts and research content. They plan and shoot video for live and recorded use in a specific time slot while adhering to laws related to defamation, libel, copyright and privacy.

Business of Arts and Communication

Grade(s): 12

1 Year

1 Credit

Prerequisites: Successful completion of the junior program and teacher recommendation

A growing number of professionals make a living in industries related to arts and communications. From event management to tracking expenses, students learn the business side of visual, media and performing arts. Topics include marketing, branding, producing, promoting, booking, budgeting and merchandising, etc. Students learn and apply intellectual property rights, licensing, copyright, royalties, liabilities and contractual agreements. They learn how both profit and non-profit organizations businesses operate.

CAREER TECHNICAL PROGRAMS

Engineering/PLTW Course Descriptions

Introduction to Engineering Design PLTW

Grade(s): 9	1 Year	1 Credit		
<i>Prerequisites: None</i>				
Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.				

Principles of Engineering PLTW

Grade(s): 10	1 Year	1 Credit		
<i>Prerequisites: None</i>				
Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.				

Civil Engineering and Architecture PLTW

Grade(s): 11	1 Year	1 Credit		
<i>Prerequisites: Students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year)</i>				
Students learn important aspects of building and site design and development, and then they apply what they know to design a commercial building. This course is 1st semester.				

Computer Integrated Manufacturing PLTW

Grade(s): 11	1 Year	1 Credit		
<i>Prerequisites: Students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year)</i>				
Manufactured items are a part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system. This course is 2nd semester.				

Digital Electronics PLTW

Grade(s): 12

1 Year

1 Credit

Prerequisites: Successful completion of the junior program and teacher recommendation

Students explore the foundations of computing by engaging in circuit design processes to create combinational logic and sequential logic (memory) as electrical engineers do in industry.

Engineering Capstone PLTW

Grade(s): 12

1 Year

1 Credit

Prerequisites: Successful completion of the junior program and teacher recommendation

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in an Engineering program in a more comprehensive and authentic way. Capstones often include project/problem based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

Type of Job Opportunities

Examples would be: mechanical engineering, civil engineering, architecture, electrical engineering, electro-mechanical engineering, and manufacturing engineering to name a few.

Technical Training or College Opportunities beyond High School

Upon successful completion of this three-year high school program, students will have the opportunity to earn up to 15 semester hours of elective college credits. These credits can be used at any public college in the state of Ohio. Additional credit can be earned in the program depending on the college you choose to attend. Both two- and four- year programs related to engineering are offered beyond high school at various colleges. Hamilton High School has articulation agreements with Cincinnati State, College of Applied Science at the University of Cincinnati, Sinclair Community College, Raymond Walters College, and Miami University, Oxford, as well as the Hamilton and Middletown branches.

CAREER TECHNICAL PROGRAMS

Exercise Science and Sports Medicine Course Descriptions

Nutrition and Wellness

Grade(s): 10	1 Year	1 Credit		
<i>Prerequisites: None</i>				
<p>Students will increase their knowledge of comprehensive health and wellness. Students will be able to identify the components of fitness and communicate the relationship between physical fitness, physical performance, injury prevention, and nutritional intake. Students will evaluate an individual's state of nutrition based upon the impact of personal choices and social, scientific, psychological and environmental influences. Further, students will calculate an individual's kilocalorie burn rate and recommend an ideal diet and physical fitness plan.</p>				

Medical Terminology

Grade(s): 11	1 Year	1 Credits		
<i>Prerequisites: Students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year). 2.00 GPA, good attendance (less than 12 absences per year).</i>				
<p>This course focuses on the applications of the rules for constructing and defining medical terms with an emphasis on building a working medical vocabulary. Topics include using the appropriate abbreviations and symbols for anatomical, physiological and pathological classifications and the associated medical specialties and procedures. Students will decipher medical terms by identifying and using word elements with an emphasis on derivation, meaning, and pronunciation.</p>				

Athletic Injuries and Prevention

Grade(s): 11	1 Year	1 Credits		
<i>Prerequisites: Students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year). 2.00 GPA, good attendance (less than 12 absences per year).</i>				
<p>Students will identify signs and symptoms of injury and apply emergency procedures and techniques used in the immediate care of athletic-related trauma. Students will learn clinical and field evaluative processes, injury prevention techniques, conditioning techniques, treatment, taping, bracing, and rehabilitation of musculoskeletal injuries and conditions. Students will design and implement conditioning programs, including nutritional considerations and ergogenic aids. Emphasis is placed on the synthesis of information gathered through injury history, observation, and manual muscle testing.</p>				

Exercise and Athletic Training

Grade(s): 12

1 Year

1 Credit

Prerequisites: Successful completion of the junior program, teacher recommendation, Biology and Algebra I. Human Anatomy & Physiology is recommended as a corequisite.

In this first course students will apply procedures and techniques used in athletic training and in the care and rehabilitation of athletic injuries and therapeutic exercise. Topics include injury prevention, conditioning, and wound care techniques of the musculoskeletal system. In addition, current trends, technology, legal considerations, and the role of exercise science in relationship to other health fields will be emphasized. This course includes the option for articulated college credit with a qualifying score on the end of course assessment.

Fitness Evaluation and Assessment

Grade(s): 12

1 Year

1 Credit

Prerequisites: Successful completion of the junior program, teacher recommendation, Biology and Algebra I. Human Anatomy & Physiology is recommended as a corequisite.

Students will complete comprehensive fitness evaluations and develop individualized training programs. Students will administer lab and field tests of cardiovascular endurance, body composition, joint flexibility and muscular strength, power, and endurance. Emphasis is placed on assessing body composition, neuromuscular flexibility, agility, balance, coordination, and proprioception. Additionally, students will identify the components of physical fitness and communicate how physical activity impacts health and wellness. This course includes the option for articulated college credit with a qualifying score on the end of course assessment.

Type of Job Opportunities

The Exercise Science/Sports and Recreation Healthcare professional is a member of the health team. Students will have an opportunity to sit for the AMCA Physical Therapy Aide Certification. Secondary completers seeking additional coursework with certification exams are qualified for careers such as personal/fitness training and group fitness instructor. Individuals acquiring an associate's, bachelor's and/or advanced degrees qualify for additional careers such as athletic training, physical therapy, occupational therapy, exercise physiology and physical education. Exercise Science/Sports and Recreation Health Care training is a strict, prescriptive curriculum that consists of various levels of certification/licensure and career opportunities.

Technical Training or college opportunities beyond High School

Students meeting all requirements as College Tech Prep program completers (e.g. attendance, grade point average, academic courses, capstone project, and instructor recommendation) are eligible for articulated and/or dual enrollment credit at area post-secondary institutions.

CAREER TECHNICAL PROGRAMS

Health Careers Course Descriptions

Nutrition and Wellness

Grade(s): 10	1 Year	1 Credit		
<i>Prerequisites: None</i>				
<p>Students will increase their knowledge of comprehensive health and wellness. Students will be able to identify the components of fitness and communicate the relationship between physical fitness, physical performance, injury prevention, and nutritional intake. Students will evaluate an individual's state of nutrition based upon the impact of personal choices and social, scientific, psychological and environmental influences. Further, students will calculate an individual's kilocalorie burn rate and recommend an ideal diet and physical fitness plan.</p>				

Medical Terminology, Principles of Allied Health & Patient Centered Care

Grade(s): 11	1 Year	3 Credits		
<i>Prerequisites: Students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year). 2.00 GPA, good attendance (less than 12 absences per year).</i>				
<p>The Junior Year of the two-year tech-prep program is designed to prepare students for entry-level positions in health care. The program provides the student with a basic foundation of health care knowledge and skills. The curriculum covers terminology, diseases, and anatomy & physiology of all the body systems along with a variety of health care skills. Students will complete the American Heart Association's BLS course for healthcare providers and the "Heartsaver" First Aid course in addition to the state of Ohio Nurse Aide Training Competency and Evaluation Program. Students will also complete the Career Safe safety course, instruction in infection control and explore a number of different health careers. Students spend three periods per day participating in health care related studies and after completion of the nurse aide curriculum will be involved in a clinical rotation at a long-term care facility. This rotation will require a scrub uniform. At the end of the junior year, students will have built a knowledge base on which they can enter the workforce at an entry-level healthcare job. These include positions in long-term care, hospitals, doctor's office, medical clinics, veterinary offices, and pharmacies. Students who successfully complete the requirements of the program as juniors will receive the State Tested Nurse's Aide Certification (STNA).</p>				

Patient Centered Care and Diagnostics & Health Science Capstone

Grade(s): 12	1 Year	2 Credits		
<i>Prerequisites: Successful completion of the junior program, teacher recommendation, Biology and Algebra I. Human Anatomy & Physiology is required as a corequisite. Must complete a background check for clinicals.</i>				
<p>The senior year of the Tech-Prep program involves two periods per day in classroom and lab activities. The focus will be more on the application of the knowledge and skills acquired during the junior year. Students will be completing clinical rotations in the community at health care facilities in which they will be job shadowing, working with mentors, and performing the skills that were learned during the junior year. Students will spend more time on researching health careers and will study the ethics involved in health care while planning their post-graduation career goals. Their knowledge base in anatomy and physiology and terminology will be broadened, they will be introduced to phlebotomy and medical office skills, and many students will acquire college credit through articulation agreements with area colleges.</p>				

Type of Job Opportunities

Although students are not required to work as part of their Health Careers Program, by the end of the junior year, students are certainly qualified for entry-level jobs in a healthcare facility. These would include job classifications as a non-certified medical assistant, state-tested nurse aide, patient care technician, activities assistant, dietary technician, medical office clerk/receptionist, and veterinary assistant. Many students use this opportunity to enhance their skills and begin their postsecondary career goals.

Technical Training or College Opportunities beyond High School

Students can enroll in a post-secondary career technical school, community college, or a university to pursue certificate, associate, or bachelor degree programs in health care. There are several educational opportunities to further health careers available in the Cincinnati/Dayton area. If a student is working in a healthcare facility while attending school, many employers will assist the student with furthering their education through tuition reimbursement programs. There are also many scholarships available to our health careers students.

CAREER TECHNICAL PROGRAMS

Information Technology: Information Systems and Support Course Descriptions

IT:ISS I				
Grade(s): 10-11	1 Year	1 Credit		
<i>Prerequisites: None</i>				
<p>IT:ISS-I is a one period College Tech Prep Information Technology (IT) course designed to prepare students who have a strong interest in building, fixing and maintaining computers. Another goal of the program is to prepare students to pass the A+ Certification Exam. This certification is meant to assist students in securing a job in the computer repair and maintenance field, as well as potentially providing on-the-job experience in the corporate and professional worlds. Main topics to be covered in the classroom lab setting are as follows: personal computer (PC) hardware, PC builds and disassembly, troubleshooting, Microsoft Windows, Office and other PC software, customer service, business concepts, business professionalism, networking, printers, and business operations related to Information Technology (IT). In addition, a broad spectrum of content area of business operations, laws, ownership, business information and communication systems, finance, management roles, production, marketing and human resource aspects will be covered during this year long course. This class is the intro class to the Butler Tech IT:ISS Level II and III classes</p>				

IT:ISS II				
Grade(s): 11-12	1 Year	2 Credits		
<i>Prerequisites: IT:ISS I, students apply for Career Technical Education programs to begin in the Junior year (application is completed during the winter of their Sophomore year)</i>				
<p>IT:ISS-II is a two period Information Technology course, offered in partnership with Butler Tech at the Hamilton High School CTE campus, designed to prepare students who have a strong interest in designing, implementing, and maintaining computers and networks to take and pass the CompTIA A+ and Network+ Certifications. These certifications are meant to assist students in securing a job in the PC support and network management field and to prepare them for possible Microsoft and Cisco Certifications, such as the MSCE, CCNA, CCNP and CCIE. Topics covered in the classroom and lab settings and include advanced support of PC hardware and software, architecting and implementing different types of networks, network operations support, networking protocols, and all types of network platforms and equipment. The Linux operating system and basic Internet concepts will also be covered. Customer Service, basic networking concepts, internet connectivity, security, ecommerce and working on team projects are covered as well. The Junior/Senior ISS class is an elite, selected group and much is expected of them in their path toward future IT careers and success. With their real world experience and their A+ and Net+ Certifications, ISS students can, upon graduation, move directly into professional jobs, or go straight into a technical school, or college with articulated college credits, technical training or college opportunities beyond high school. Butler Tech and the Hamilton High School District, have an articulation agreement with Sinclair Community College for advanced standing and college credits. Students successfully completing the Tech Prep ISS program will either receive advanced standing or college credit towards an associate's degree at this college and credits will transfer to most public colleges and universities in the State of Ohio. Some employers may have tuition reimbursement programs for students directly hired into the corporate workforce and desiring to continue their IT education while working.</p>				

IT:ISS III

Grade(s): 12

1 Year

2 Credits

Prerequisites: Successful completion of IT:ISS III and teacher recommendation

IT:ISS-III is a two period Information Technology course designed for elite students who have completed ISS-I and ISS-II and are looking for a challenging class to cap off their ISS course of studies at Butler Tech's Hamilton High School CTE campus. Potential student must show strong interest continuing in: supporting, designing, implementing, and maintaining PC's and networks to take and pass the CompTIA A+ and Network+ Certifications, as well as preparing and working on Capstone projects for competition against other CTE school in the region. The certifications are meant to assist students in securing a job in the PC support and network management field and to prepare them for possible Microsoft and Cisco Certifications, such as the MSCE, CCNA, CCNP and CCIE. Topics covered in the classroom and lab settings and include architecting and implementing different types of PC support, networks, network operations support, networking protocols, and all types of network platforms and equipment. The Linux operating system and basic Internet concepts will also be covered. Customer Service, basic networking concepts, internet connectivity, security, ecommerce and working on team projects are covered as well. The Senior ISS-III class is an elite, selected group and much is expected of them in their path toward future IT careers and success. With their real world experience and their A+ and Net+ Certifications, ISS students can, upon graduation, move directly into professional jobs, or continue their education in their chosen IT specialization. The best students are also potential intern and co-op candidates for local companies, public institutions and school positions.

