

Fairborn High School

Program of Study

2018-19



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Introduction

This *Program of Study* booklet provides important information about the courses offered at Fairborn High School as well as state and local requirements for graduation, academic awards and curricular options.

Students should make course selections carefully. Being familiar with the *Program of Study* will help you make appropriate high school course selections. We encourage you and your parents to read through the *Program of Study* with your future academic plans in mind. **The courses that students select should be based on their abilities, graduation requirements and goals for the future.**

Every effort will be made to accommodate students' course requests for the following school year; however, enrollment numbers and staffing constraints may ultimately affect which courses and/or how many sections of each course are able to be scheduled. Information about any new course offerings or cancellation of courses will be shared with the student body as the information becomes available. If you have any questions or concerns about course offerings or the scheduling process, please contact your counselor:

School Counselors

Randi Mohler (Last name A-G); Sara McCarty (Last name H-N); Chris Downing (Last Name O-Z)

Definition of Terms

Several words or expressions will be used throughout this booklet. Some of the most important ones are explained below:

Credit	One high school credit is awarded for each course that meets five days a week for a school year. One-half of a high school credit is awarded for each course that meets five days a week for one semester. Exceptions: one-fourth high school credit is awarded for some physical education courses, and courses offering post-secondary education credits may have different credit values assigned.
Required	Courses that a student must take and pass in order to graduate.
Elective	Courses that are not specifically required, but may be used toward fulfilling graduation requirements in some cases.

Definition of Terms (continued)

Prerequisite	Coursework, grade-level status and/or other requirements that must be fulfilled in order to enroll in a course.
Transcript	A complete record of courses taken and marks earned, total number of credits attempted and earned, GPA and class rank, EOC/OGT/SAT/ACT test results and attendance records for a particular student.
Grade Point Average	Calculation based on final grades, attempted credits and honors points; GPAs are cumulative with the exception of those calculated for quarterly honor roll and eligibility.
Honors Points	Additional points added to the GPA for successful completion of designated honors courses.
Grading Scale:	A (90-100) B (80-89) C (70-79) D (60-69) F (0-59)
Class Status:	<p>Class status is determined by the total number of credits the student has earned.</p> <p>0 – 4.75 credits: 9th grade (Freshman) 10 – 14.75 credits: 11th grade (Junior)</p> <p>5 – 9.75 credits: 10th grade (Sophomore) 15 or more credits: 12th grade (Senior)</p> <p>Class status is set at the beginning of the school year, and class promotions occur only one time per year. Students who do not earn the minimum number of credits for the next successive class status will be retained. Homeroom placement may not reflect actual class status in some cases. (Twenty-one credits are required to graduate from Fairborn High School.)</p>

Fairborn High School Graduation Requirements

Students **who entered high school in the 2014-15 school year or later** may earn a diploma from Fairborn High School by meeting the following requirements:

1. Complete all Fairborn High School curriculum requirements of twenty-one (21) credits. Fairborn High's curriculum requirements meet or exceed the standards set by the Ohio Department of Education.
2. Have paid all outstanding school fees and/or debts.
3. Take the state-designated end-of-course exams (EOCs) and qualify for one of three standards for graduation as set by the Ohio Department of Education:

Required EOCs:

- Algebra I Mathematics (or Math 1)
- Geometry Mathematics (or Math 2)
- Biology Science
- American History Social Studies
- American Government Social Studies
- English Language Arts I
- English Language Arts II

Students studying Advanced Placement (AP), International Baccalaureate (IB), or taking dual enrollment courses or College Credit Plus courses in biology, American history or American government may take assessments aligned to those courses in lieu of end-of-course exams to avoid double testing. Students also may substitute grades from College Credit Plus courses in these subjects for end-of-course state exams.



Note: Students entering their first year of high school in 2014-15 or earlier may have alternative options for EOC and/or OGT exams. Please see your counselor for details.

Meet *one* of the following:

1. Earn a cumulative passing score of **18 points** on the seven EOCs. The scores set by the State Board of Education will ensure that students are well-rounded, **and** students must earn a minimum of
 - 4 points in math
 - 4 points in ELA and
 - 6 points across science and social studies
2. Earn “remediation-free” scores in ELA **and** math on a nationally recognized college admission exam. The state of Ohio will pay one time for all grade 11 students in the classes of 2018 and beyond to take the ACT exam free of charge.
3. Earn **12 points** through a State Board of Education-approved, industry-recognized credential or group of credentials in a single career field **and** achieve a workforce readiness score on the WorkKeys assessment. The state of Ohio will pay one time for those who take the WorkKeys assessment.

The Fairborn Board of Education mandates that at the time of graduation each student will have fulfilled all state testing, academic and financial obligations. A good school record is the best recommendation an applicant can offer, either to a college or to a job. A record of good personal behavior and cooperation will be expected.

<u>Courses</u>	<u>Required Credits</u>
English Including: English 9, English 10, English 11 and one additional credit of advanced study	4
Mathematics Including: Algebra I, Geometry, Algebra II and one additional credit of math	4
Science Including: 1 Biological Science, 1 Physical Science and one additional credit of advanced study	3
Social Studies Including: World Studies, American Studies and Government	3
Fine Arts	1
Health	½
Physical Education	½
Personal Finance Literacy	½
<u>Electives</u>	<u>4.5</u>
Total Required Credits	21

Recommended Credits Include:

Subject Area	College-Prep	Career-Technical Prep
English	4+ credits	4+ credits
Math	4+ credits	4+ credits
Science	4+ credits	3+ credits
Physical Education	½ credit	½ credit
Health	½ credit	½ credit
Social Studies	4+ credits	3+ credits
Performing Arts, Visual Arts, and/or Applied Arts	2+ credits	3+ credits
Modern World Language	2+ credits	

Four-Year Plan: It is recommended that each student develop a four-year plan and revise it each year as a means to help ensure that graduation requirements are being addressed each year. A worksheet is available on page 15 for students to use as a tool to develop such a plan and to track their own progress.

Early Graduation

Early graduation is an option for students who will complete all graduation requirements in less than four school years. If circumstances exist which seem to warrant early graduation, the principal, after careful consideration and discussions with the parents or guardians, the student and the counselor, may grant permission for early graduation.

- **Requests for early graduation must be made in writing by the parents or guardians to the high school principal by December 15 for a spring or summer graduation.** The school cannot guarantee that a diploma and cap and gown can be ordered and delivered in time for students to participate in the graduation ceremony if these deadlines are not met.
- Students' final rankings will be with the class in which they graduate.
- Students who graduate in the summer may receive their diplomas in the principal's office, or they may elect to participate in the next year's graduation ceremony.

Transfer Credits

Transfer credits and grades for secondary school courses earned by a student in other chartered Ohio schools or schools approved or accredited by the Department of Education in another state will be accepted by Fairborn City Schools. Credits will be awarded according to guidelines established by the Ohio Department of Education and Fairborn City Schools.

Credits from non-chartered schools and schools in foreign countries will be evaluated by the principal and may or may not be accepted based on the following:

1. Criteria for such determination will include the number of days the school was in session, length of the official school day, the number of scheduled meetings per course and the clock hours per year for each course, as well as course content.
2. The principal also may request evidence that the courses were taught by teachers holding properly validated certificates from the appropriate state education agency.
3. The principal may consider the student's past academic history, including courses taken, grades earned and the results of standardized and criterion-referenced testing. The principal may require additional testing to determine the best educational placement for the student.
4. Credit for religious courses in a chartered or non-chartered school **cannot** be counted toward the minimum number of credits required for a Fairborn High School diploma.
5. Honors credit and/or honors credit GPA weights will only be given for those courses that are offered for honors credit/weighting at Fairborn High School.

Home-schooled students enrolling at Fairborn High School are subject to the following:

1. The parents or guardians will provide official results of a recognized standardized achievement test taken within three months prior to enrolling in Fairborn City Schools, preferably the California Achievement Test (CAT) or the Iowa Test of Basic Skills (ITBS). The Universal Tutoring Center is a place where parents or guardians can have these tests administered at their expense. Their telephone number is (937) 299-1950.
2. The parents or guardians will provide a list of the subjects that were studied at home.
3. The parents or guardians will provide a copy of the notification form from Fairborn City Schools or the district where the student was home schooled showing that the student was officially home schooled.
4. The parents or guardians will provide the educational materials that were used.
5. The parents or guardians will provide a written evaluative report from the home schooling instructor.
6. The parents or guardians will provide a list of the hours per day in class and number of days attended for the year.
7. The student will be required to take the Fairborn High School final exam for the corresponding course to determine if credit will be awarded.
8. For courses that are accepted for credit, the student will receive a grade of "Pass" with a "home schooling" notation on the transcript. These courses will not be calculated into the grade point average (GPA).

Academic Distinction Awards Upon Graduation

Diploma with Honors Requirements

Historically, the State Board of Education has encouraged excellence in both college preparatory and career-technical curriculum. Outstanding students may receive special recognition for their achievements through the State Board of Education's Diploma with Honors and Award of Merit.

Ohio Department of Education's Diploma with Honors requirements pre-suppose completion of all high school diploma requirements in Ohio Revised Code.	High School Academic Diploma with Honors <i>Students need to fulfill only 7 of the following 8 criteria</i>	Career-Technical Diploma with Honors <i>Students need to fulfill only 7 of the following 8 criteria</i>
Subject	Criteria	Criteria
English	4 units	4 units
Mathematics	4 units, including Algebra I, Geometry, Algebra II and another higher-level course or a four-year sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II and another higher-level course or a four-year sequence of courses that contain equivalent content
Science	4 units, including physics and chemistry	4 units, including physics and chemistry
Social Studies	4 units	4 units
Modern World Language	3 units of one modern world language OR 2 units each of two modern world languages	Not counted toward requirements
Fine Arts (art or music)	1 unit	Not counted toward requirements
Career-Technical	Not counted toward requirements and may not be used to meet requirements	Count as Electives
Electives	Not counted toward requirements	4 units of Career-Technical minimum. Program must lead to an industry recognized credential, apprenticeship or be part of an articulated career pathway which can lead to post-secondary credit.
Grade Point Average	3.5 on a 4.0 scale at the completion of the student's 7 th semester	3.5 on a 4.0 scale at the completion of the student's 7 th semester
ACT/SAT Score [excluding scores from the writing sections]	27 ACT / 1210 SAT	27 ACT / 1210 SAT
Additional Assessment	None	Achieve the proficiency benchmark established for the appropriate Ohio Career-Technical Competency Assessment or the equivalent

Valedictorian(s) and Salutatorian(s) Determination

The valedictorian(s) and salutatorian(s) will be determined at the conclusion of the 7th semester from the roster of students who have spent at least four years in high school. The student(s) with the highest 7th-semester weighted GPA (rounded to two decimal places) will be named the valedictorian(s) and the second highest will be named the salutatorian(s). In calculating the 7th-semester weighted GPA, a weight of .025 credit will be added for each ½ credit *honors* course (including AP and College Credit Plus), and weight of .05 will be added for any a one credit *honors* course (including AP and College Credit Plus) completed during the 7 semesters, as well as courses in progress for the 8th semester. Courses that earn credit in increments besides ½ or 1 credit will be weighted proportionally.

FHS will select valedictorians based on two sets of criteria. FHS will select a valedictorian(s) from those students who take any College Credit Plus class during their high school career. The student(s) with the highest GPA over 4.0 will be named valedictorian. Also, FHS will select a valedictorian(s) from students who have not taken any College Credit Plus classes during their high school career. The student(s) with the highest GPA over 4.0 will be named valedictorian. Salutatorians will be selected using the same method.

Class Rank Calculation

Class rank is determined using a 4.0 scale and the weighted GPA. Class rankings are calculated at the end of each semester.

Grade Point Average (GPA) Calculation

All letter grades have values: A=4; B=3; C=2; D=1; F=0. "Pass/No Credit" classes are not included. **Quality points** are calculated by multiplying the grade value by the credit attempted. The **unweighted GPA** is calculated by dividing the total number of quality points by the total number of credits attempted (not earned). GPAs are rounded to three decimal places. The **weighted GPA** includes all honors points; .025 per successfully completed ½ credit honors added to the unweighted GPA and weight of .05 will be added for any one credit honors course. For students who transfer to Fairborn High School from another high school, points for an honors course will be awarded only if that same course is offered at Fairborn High School. GPA is calculated at the end of each semester.

GPA for Honor Roll and Principal's List

(GPA for these considerations are only calculated quarterly)

1. A student must be carrying the equivalent of 5 credits per semester at FHS or via College Credit Plus classes.
2. All subjects are to be counted. This includes band, choir, physical education and health.
3. **Honor Roll:** A full 3.0 grade point average is necessary for eligibility.
4. **Principal's List:** A full 3.6 grade point average is necessary for eligibility.

Criteria for Athletic and Extra-Curricular Eligibility

(GPA for this consideration is calculated quarterly)

1. Student must be carrying the equivalent of 5 credits per semester at FHS or via College Credit Plus classes.
2. Student must have a 2.0 GPA and be passing 5 or more credits to be considered eligible. PE courses worth ¼ credit will not be considered in the 5 course requirement but will be considered in the 2.0 GPA calculation.
3. Student is currently enrolled in school.
4. All student-athletes, including first-time incoming freshmen, must maintain a GPA of 2.0 during the preceding grading period.
5. All Fairborn secondary students including those with an IEP are subject to this policy.
6. Every student-athlete can receive one eligibility exemption in middle school as well as one in high school. If a student has a GPA lower than 2.0, but it falls with the range of 1.5 to 1.9 (unweighted), then the student qualifies for the exemption. The exemption is valid only during the grading quarter in which it is applied. Once a student uses this exemption, should he/she fall below a 2.0 in future grading periods, he/she will be ineligible during that current quarterly grading period.
7. Eligibility is for a nine-week grading period.

Specific Activities that are governed by this eligibility policy:

1. all high school/middle school athletics
2. all high school/middle school bands, choirs and orchestras for participation in all contests and programs
3. high school-chamber chorale, show choir, pep band, stage band, flag corps, marching corps, marching band, chess club, League Activities, mock trial, science competition club, speech/debate, drama club, and student congress/service club
4. middle school drama club and student council

[Adoption date: November 2016] LEGAL REFS: ORC 2305.23; 2305.231, 3313.66; 3313.661, 3315.0

Curricular Program Options

Greene County Career Center (GCCC)

Fairborn High School students have the opportunity to attend the Greene County Career Center. Students must apply and meet the GCCC requirements to participate in the programs offered there. These requirements include a minimum of 8 credits, including ½ credit of Physical Education and ½ credit of Health. Some GCCC programs have additional prerequisite requirements. Contact your FHS School Counselor for more information about the programs GCCC offers, GCCC's enrollment requirements, or to find out more about the Greene County Career Center itself.

Sinclair Tech Prep Scholarship

The purpose of the Sinclair Tech Prep Scholarship is to recognize merit and to provide financial support for students pursuing an associate degree in their Tech Prep program at Sinclair Community College. Students completing the high school requirements of the Tech Prep program and meeting the scholarship qualifications are eligible to receive a \$3,000 scholarship. Beginning fall semester following high school graduation, scholarship recipients may receive up to \$750 per semester to cover tuition and books. Students must complete one credit hour at Sinclair in the school year following their high school graduation in order to activate their scholarship. Once enrolled, the scholarship can be used for up to three years. Most programs at GCCC make students eligible for the Tech Prep Scholarship. In addition, two GCCC programs offered at FHS, Marketing and Engineering Tech, qualify students for the Sinclair Tech Prep Scholarship. Students in the class of 2017 who complete the two-year Marketing program during their junior and senior year, have a GPA of 2.25 for their junior year and the first semester of their senior year, and continue in that program or a related program at Sinclair will qualify for the Tech Prep Scholarship. For students in the class of 2018 and beyond, completion of all four Marketing courses as well as completion of the requirements listed above will be necessary to earn the Tech Prep Scholarship. For Engineering Tech students, completion of Engineering Tech I and II during the junior and senior year along with the above stated requirements are necessary to become eligible for the Tech Prep Scholarship. More information about the Tech Prep programs is available from your FHS school counselor.

Project Lead The Way (PLTW)

2 Pathways Options to Success in Science, Technology, Engineering and Mathematics

Project Lead The Way is a set of two programs introduced at Fairborn High School in 2009-2010: ***Pathway to Engineering*** and ***Pathway to Biomedical Sciences***. Centered on pre-college curriculums and practical applications of theory, the two PLTW pathway options will prepare students for future programs in engineering or medical fields. The programs provide rigorous, hands-on experiences for students as they learn the key elements and skills associated with each field. Studies of the PLTW curriculum have proven that PLTW students become the kind of prepared, competent, high-tech employees U.S. industry needs to stay competitive in a global market.

FHS offers all 4 levels of the ***Pathway to Engineering*** and the ***Pathway to Biomedical Sciences*** programs. Each of the introductory courses (i.e. the first class in each series) can be taken as a stand-alone class or as the beginning of the entire series. Transferrable college credit may be earned following the completion of four courses in the ***Pathway to Engineering*** and at the completion of the ***Human Body Systems and/or the Medical Interventions*** courses. Students must also be concurrently enrolled in college-preparatory English and mathematics courses.

Curricular Program Options (continued)



College Credit Plus (Dual Enrollment)

Eligible students can take a course and earn high school and college credit that appears on both their high school and college transcripts. Teachers who teach a College Credit Plus course in a high school must receive professional development and be an adjunct professor at a college or university. All courses offered through College Credit Plus—even courses offered in the high school—must be the same course that the college offers. The course must apply to a degree or professional certificate. College Credit Plus replaces the Post-Secondary Education Option, also known as PSEO, and redefines “alternative dual enrollment” programs as advanced standing programs. In most cases, there is no cost for the student to participate in College Credit Plus when the student is enrolled in a public college or university. The high school and college or university share the cost for the course. Students choosing to enroll in a participating private college or university might incur costs. To be eligible, students must meet the admission standards of the participating college or university to which they apply for enrollment. Additionally, there will be an annual informational event for students and parents that is required to participate in the program. Typically, this meeting is held annually in February or March.

Credit Flexibility

The Board recognizes that an effective educational program is one that provides opportunities for students to customize aspects of their learning around their respective needs and interests. Credit flexibility is one method to motivate and increase student learning by allowing access to more resources, customization around individual student needs and the use of multiple measures of learning.

Credit flexibility 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.

In accordance with State law, a credit flexibility plan has been developed that allows students to earn high school credit by:

1. completing coursework;
2. testing out or showing mastery of course content;
3. pursuing an educational option and/or an individually approved option and/or
4. any combination of the above.

There is a request process and fee for completing courses via the Credit Flex option. For more information about flexible credit, contact your school counselor.

IMPORTANT NOTE ABOUT ADDITIONAL CLASS OPTIONS:

See your counselor for information about new courses that may have been added after the printing of this Program of Study as well as College Credit Plus courses held at FHS. These will be listed in separate Addendums to this Program of Study.

Program Course Types for Special Populations

Program Course Types for Students with Individual Educational Plan Programs (IEPs)

Individual Education Plans are developed for students with disabilities in the following categories: Autism, Deaf-blindness, Deafness, Hearing Impairment, Emotional Disturbance, Cognitive Disability, Multiple Disabilities, Orthopedic Impairment, Other Health Impaired, Specific Learning Disability, Speech or Language Impairment, Traumatic Brain Injury, Visual Impairment and Developmental Delay. Programs consist of a combination of general education classes and special education classes to meet student needs. Programs are designed to meet state and local graduation requirements with a special emphasis on attaining skills that lead to employability and independence as an adult. Students with disabilities who participate in general education classes may receive support as needed from Intervention Specialists. These teachers are available to modify and accommodate classroom materials and to provide in-class support. ***Students with multiple or severe disabilities will NOT schedule online; they will be scheduled individually by their school counselors and teachers.**

Essentials Courses: An essentials course is one which emphasizes the same curriculum objectives as a standard course, but covers the curricular material at a slower pace. The curriculum emphasis will concentrate on relating everyday-world applications to the daily learning outcomes. Essentials courses rely heavily on classroom hands-on experiences with special emphasis on visual learning. A major portion of each course is built around the curriculum that supports the state-required EOC exam skills. Students experience technological applications as one means of learning the course objectives. Due to the emphasis on in-class learning experiences, good classroom attendance and a positive work ethic (cooperation, positive attitude, and good effort) are expected. Group projects and teamwork experiences are necessary to be successful in this program. Students will be selected for essentials classes based on past academic performance, teacher recommendation and test scores. **Students with IEPs should register with the following codes in order to ensure Intervention Specialist support:**

Essentials Course Codes

0951 Reading/ELA	0962 Integrated Math 1 Essentials	0970 Physical Science Essentials^
0950 English 9 Essentials*	0965 Integrated Math 2 Essentials	0971 Biology Essentials^
0952 English 10 Essentials*	0967 Integrated Math 3 Essentials	0969 Earth & Space Essentials^
0954 English 11 Essentials*	0968 Integrated Math 4 Essentials	0980 World Studies Essentials
0956 English 12 Essentials*	0960 Applied Math Skills	0981 American Studies Essentials
	0974 Adaptive Phys. Ed. Essentials	0982 Government Essentials

(*Course fees for 0950, 0952, 0954, 0956 = cost of supplemental texts; ^Course fees for 0970, 0971, 0969 = \$10)

Inclusion (Team Support) Standard Courses: Most courses at Fairborn High are standard courses which fulfill both the college prep curriculum and the career-readiness education curriculum. Some standard courses may include the academic support services of an Intervention Specialist. These classes will be coded as “regular” classes on the student’s schedule, however, **students with IEPs will register with the following codes during the scheduling process in order to ensure Intervention Specialist support:**

Inclusion (Team Support) Course Codes

1027 English 9 Team	1024 Applied Algebra A Team	1025 Physical Science Team
1028 English 10 Team	1017 Applied Algebra B Team	1026 Biology I Team
1035 English 11 Team	1023 Algebra I Team	1029 Earth & Space Science Team
1036 English 12 Team	1018 Geometry Team	1020 World Studies Team
1015 Personal Finance Team	1037 Algebra II Team	1021 American Studies Team
1030 Health Life Choices Team	1038 Functions Team	1022 Government Team

(Fees for these classes are noted within the standard course descriptions in this Program of Study.)

Nondiscrimination on the Basis of Disability

Program Accessibility in all Schools/Facilities

In accordance with State and Federal law, the District will provide reasonable accommodations to persons with disabilities who wish to attend and/or participate in school events. No qualified person with a disability will, because the District's facilities are inaccessible to or unusable by persons with disabilities, be denied the benefits of, be excluded from participation in, or otherwise be subjected to discrimination under any program or activity to which Section 504/ADA applies. For those existing facilities constructed prior to June 3, 1977, the District is committed to operating its programs and activities so that they are readily accessible to persons with disabilities. This includes, but is not limited to, providing accommodations to parents with disabilities who desire access to their child's educational program or meetings pertinent thereto. Whenever an individual with a disability wishes to attend or participate in a meeting, conference, program or activity which is inaccessible, that meeting, conference, program or activity will be relocated to an accessible area. Forty-eight hour notice of the need for relocation by the individual with a disability should be made to the Superintendent's Office. (Policy 9160)

Program Course Types for Students Identified as Gifted and Talented

Programs for students identified as gifted and talented consist of a combination of general education classes and advanced or enriched classes to meet student needs. Programs are designed to meet state and local graduation requirements with a special emphasis on more rigorous academic study. Skills attained with successful completion of these options are more rigorous and can provide an opportunity to earn post-secondary credit.

Honors Courses: Honors courses are enriched and offer acceleration beyond the ordinary high school standard course. Honors courses require greater expectation of classroom participation and interaction, more in-depth coverage of the curriculum objectives, additional homework, greater project responsibility on the part of the student, and in some cases summer assignments. A weighted honors grade (H) may be earned in an honors course. Honors courses expect a greater volume of reading and writing as well as a component of independent study. Honors course codes are listed in the Program of Study by department.

Advanced Placement–Honors Courses: The Advanced Placement Program is sponsored by the College Board, a non-profit membership organization that contracts with the Educational Testing Service (ETS). The Advanced Placement Program (AP) gives students an opportunity to experience college-level courses and exams while they are still in high school; students may earn college credit, accelerated placement, or both for college when they take the exams associated with the course. University credit and accelerated placement are awarded by the college or university, not by the College Board, AP Program or Fairborn High School. College and university policies regarding AP grades vary. Students seeking college credit through AP should obtain the college’s AP policy in writing or look for it on the institution’s web site. A weighted honors grade (H) may be earned for the high school credit associated with an AP-Honors course. AP course codes are listed in the Program of Study by department.

College Credit Plus Courses: Ohio’s College Credit Plus can help students 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 if you attend public school in the state of Ohio. If you choose to attend a private college or are homeschooled, you may have limited costs. Fairborn High School has agreements with several local colleges for specific courses; however, students can choose to take College Credit Plus courses from any college that offers a course that would benefit their future. This could include online courses.

Scheduling Policies and Procedures

Auditing Courses

All courses must be taken for credit; auditing of courses is not permitted.

Retaking Courses

Students have the option to retake classes and have their lowest mark removed from the cumulative GPA calculation. A record of each separate enrollment of a course will be maintained (along with the earned mark) on the student’s official transcript; however, the lowest-scoring mark will not be calculated into the final cumulative GPA. Please contact your counselor with any questions about which courses are eligible for retakes.

Schedule Changes

(All course changes must be completed before the 1st day of school)

All staffing decisions for the following year are based on the number of students selecting each course; therefore, students and their parents or guardians are expected to carefully and accurately make scheduling decisions. Counselors have the responsibility to make schedule change decisions that are in the best interests of students. Any adjustment in a student’s schedule will be handled on an individual basis. Students who wish to drop a class must first confer with the teachers involved and then the school counselor. The only acceptable reasons for changes are listed below:

Acceptable Reasons for Course Changes

- Student’s initially requested courses conflict or are not being offered.
- College Credit Plus schedule conflicts with the FHS schedule.
- Student has not completed the prerequisite(s) for the scheduled course.
- Student has passed or failed a course.
- Student needs a specific course for graduation.
- Student has medical reasons documented by a physician.
- Student has an aide position/study hall and wants to add a course.

Dropping Courses

1. Courses dropped before the end of the fifth week of the first grading period of the course will be deleted from the transcript.
2. Courses dropped after the end of the fifth week of the first grading period of the course will be recorded as a W/F (withdraw/fail) on the transcript.
3. No course may be dropped at any time if the student has a scheduled aide position/study hall within that semester. Students are limited to one (1) aide position/study hall per semester.
4. If a student is removed from a class for alternate placement by the administration, then the course will be recorded as W/F and be documented on the student's transcript.

Scheduling Process for Baker Middle School 8th Graders and Newly Enrolled FHS Students

Fairborn Baker 8th graders make course requests at Baker with the help of the BMS counselors and the FHS counselors after a class-wide meeting. A scheduling meeting for parents is also held in the evening, typically in February. Contact your counselor if you have any questions about course options. Please be sure to select alternate course requests should your first choices be closed. Students in grades 8 through 11 who enroll in Fairborn City Schools between the months of March and August should schedule an appointment with their counselor to request courses for the following year.

Scheduling Process for Current FHS Students

- Step 1: Students will be provided with scheduling and course information in early February. Students should consult both teachers and parents to select appropriate courses for the upcoming school year. Both teachers and parents will sign off for approval on the student's course selections.
- Step 2: Once course *requests* have been finalized, students will review their *courses* with their counselor. The student's counselor will double-check to make sure that the student is meeting all requirements for graduation.
- Step 3: A final list of course requests will be sent home with students to be verified by parents. The student's final schedule will be created from this list of course requests. **Students who fail to return the final course request verification may have their schedule set by a counselor and may not be changed.**

Credit Recovery

A credit recovery option is only available for 12th grade students who may have failed a course or are short on credits for graduation. A maximum of two credits can be earned through credit recovery at Fairborn High School. The fee for each ½ credit is \$85. A list of courses that can be taken via the credit recovery program is available from the counseling office.

Physical Education Option

The Physical Education Option is available to student athletes, members of after school Marching Band and Color Guard, Cheerleaders and members of after school Winter Guard who practice and participate in a Fairborn High School sanctioned activity on a daily basis. These options focus on 1) physical fitness, 2) motor skill development, 3) participation and 4) adherence to the Athletic, Music and/or Student Code with no infractions. Daily participation paralleling the official sport season must be completed at a 90% attendance level in the specific activity for credit to be granted. Students enrolled in Aerospace Science classes may also be eligible for the PE Option; refer to the Aerospace Science course description overview for more information on the PE credit for participation in Air Force JROTC.

Students electing to apply for the PE Option are required to submit a fully-completed PE Option application to the appropriate counselor once the athletic season ends, but prior to the first day of final exams in the school year that the activity place. Sports seasons are determined by the official starting date of the activity and conclude with the final, formal activity of the group.

Application Process:

1. Student picks up a PE Option application from the Counseling Office or Athletic Office at the beginning of the athletic season.
2. At the end of the season, the Coach/Athletic Office verifies that the student has met all the requirements for credit, including the 90% attendance rate, by signing the PE Option application form.
3. Student submits the fully-completed application to the Counseling Office no later than the first day of their final exams in that same school year.

Approved and completed PE experiences will be documented on the student's permanent transcript as a PE Option on a pass/fail basis, which equates to one PE course. The coach, director or supervisor of the program will be the final determiner of the 90% participation rate. Only one PE Option may be obtained in a given school year. All final recommendations for completion toward graduation requirements will be determined by a counselor and the High School Principal. **PE Options will not figure into GPA calculations nor will they count toward athletic eligibility.**

EDUCATIONAL PLANNER - Individual Career Plan

Name: _____

Circle Current Grade: 8 9 10 11

Date: _____

This form will help you decide on the educational plan to help you reach your career goals. You will have the opportunity to review your educational plan annually and make any needed changes. A new Educational Planner sheet will be provided to you at that time.

Extracurricular experiences and activities to support my career goals:

My education plans after high school: _____

Approval: *I have seen and agree to this Educational Plan.*

Student Signature

Date

Parent or Guardian Signature

Date

Counselor or Teacher Signature

Date

Graduation Requirements		9th Grade		10th Grade		11th Grade		12th Grade	
SUBJECT	CREDIT	SUBJECT	CREDIT	SUBJECT	CREDIT	SUBJECT	CREDIT	SUBJECT	CREDIT
English	4.0	English	1.0	English	1.0	English	1.0	English	1.0
Math	4.0	Math []	1.0	Math []	1.0	Math []	1.0	Math []	1.0
Science	3.0	Phys Sci/Biology	1.0	Phys Sci/Biology	1.0	Science []	1.0		
Social Studies	3.0	World Studies	1.0	U.S. Studies	1.0				
Personal Finance	.5	Freshman Focus	.5						
Health	.5								
Physical Education	.5								
Business/Tech, Fine Arts, or Foreign Language	1								
Electives	4.5								
TOTAL FHS REQUIRED	21.0	Total		Total		Total		Total	

Pathway Options for Course Selections

The following Pathway Options present 4-year scheduling guides to assist students select coursework in light of potential post-secondary plans. Students should discuss the best course of study plan with their counselor in order to take advantage of course offerings that best suit their future career plans.

PATHWAY OPTION 4-Year College Preparatory

With a concentrated interest in **STEM (Science, Technology, Engineering, and Math)**, which would lead to a 4-year college degree and related career occupations.

12th Grade

English 12 or AP Literature and Composition
AP Statistics, AP Calculus, Honors Pre-Calculus or Pre-Calculus
AP Physics I or II, AP Chemistry II, AP Biology II, or AP Environmental Science
Social Studies Elective
College Essentials for Seniors
Elective(s)

11th Grade

English 11 or AP Language and Composition
AP Calculus, Honors Pre-Calculus or Pre-Calculus, or Honors Algebra II
AP Physics I, AP Chemistry II, AP Biology II, or AP Environmental Science
U.S. Government
World Language
College and Career Exploration for Juniors
Art Electives
Elective(s)

10th Grade

English 10 or English 10 Honors
Geometry Honors or Honors Algebra II
Chemistry I or Honors Chemistry I
American Studies or Honors American Studies
World Language
Physical Education
Health
Fine Art (art or music) or other electives

9th Grade

English 9 or English 9 Honors
Algebra I, Algebra I Honors or Geometry Honors
Biology I or Biology I Honors
World Studies or Honors World Studies
World Language
Physical Education and/or Health
Fine Art (art or music) or other electives

PATHWAY OPTION
4-Year College Preparatory

With a concentrated interest in **Communications, Fine Arts, Liberal Arts, Business, Human Services, and Languages** which leads to a 4-year college degree and related career occupations.

12th Grade

English 12 or AP Literature and Composition
AP Physics I or II, AP Chemistry II, AP Biology II, AP Environmental Science, Physics, or Earth & Space
AP Statistics, AP Calculus, Honors Pre-Calculus, Pre-Calculus or Functions
Social Studies Elective
World Language
College Essentials for Seniors
Art Electives
Music Electives
Business Electives
Marketing Electives

11th Grade

English 11 or AP Language and Composition
AP Statistics, AP Calculus, Honors Pre-Calculus, Pre-Calculus, Functions, Algebra II, or Honors Algebra II
AP Physics I, AP Chemistry II, AP Biology II, AP Environmental Science, Physics, or Earth and Space
US Government
World Language
College and Career Exploration for Juniors
Art Electives
Music Electives
Business Electives
Marketing Electives

10th Grade

English 10
Geometry, Geometry Honors, or Honors Algebra II
Biology I, Biology I Honors, Chemistry I, or Honors Chemistry I
American Studies or Honors American Studies
World Language
Physical Education
Health
Art Electives
Music Electives
Business Electives
Marketing Electives

9th Grade

English 9 or English 9 Honors
Algebra I, Algebra I Honors, Geometry, or Geometry Honors
Physical Science, Biology I, or Biology I Honors
World Studies or Honors World Studies
World Language
Physical Education
Art Electives
Music Electives
Marketing Electives
Business Electives

PATHWAY OPTION
4-Year College Preparatory

With a concentrated interest in **Professional Areas** with special emphasis in **Technical Studies (engineering or biomedical)** roles requiring an associate's degree and or specific technical skill development.

12th Grade

English 12 or AP Literature and Composition
Functions and/or Math Electives
Social Studies Elective
Physics, Earth & Space Science, or Other Science Electives
PLTW Engineering or Biomedical
College Essentials for Seniors
Elective(s) in Business, Art, Family and Consumer Science, or Marketing Tech

11th Grade

English 11 or AP Language and Composition
Algebra II, Algebra II Honors, or Functions
Physics or Earth & Space Science
U.S. Government or AP U.S. Government
PLTW Engineering or Biomedical
Elective(s) in Business, Art, Family and Consumer Science, or Marketing Tech

10th Grade

English 10 or English 10 Honors
Geometry, Geometry Honors, Algebra II, or Algebra II Honors
Biology I, Biology I Honors, Chemistry I, or Chemistry I Honors
American Studies or American Studies Honors
Physical Education or Health, if not taken in grade 9
Fine Arts (Visual Arts or Music)
PLTW Engineering or Biomedical
Elective(s) in Business, Art, Family and Consumer Science, or Marketing Tech

9th Grade

English 9 or English 9 Honors
Physical Science, Biology I, or Biology I Honors
Algebra I, Algebra I Honors, Geometry, or Geometry Honors
Physical Education and/or Health
World Studies or World Studies Honors
Fine Arts (Visual Arts or Music)
PLTW Engineering or Biomedical
Elective(s) in Business, Art, Family and Consumer Science, or Marketing Tech

PATHWAY OPTION
2-Year College Preparatory

With a concentrated interest in **Professional Areas** with special emphasis in **General Studies** for roles requiring an associate's degree and or specific technical skill development.

12th Grade

English 12
Functions
Physics or Earth & Space Science, if not taken in grade 11
Electives in English, Math, Social Studies, or Science
Elective(s) in Business, Art, Family and Consumer Science, or Marketing Tech

11th Grade

English 11
Algebra II
Physics, Earth & Space Science
U.S. Government
Electives in English, Math, Social Studies, or Science
Elective(s) in Business, Art, Family and Consumer Science, or Marketing Tech

10th Grade

English 10
Applied Algebra B, Geometry, or Geometry Honors
Biology I, Biology I Honors, Chemistry I, or Chemistry I Honors
American Studies
Physical Education or Health, if not taken in grade 9
Fine Arts (Visual Arts or Music)
Elective(s) in Business, Art, Family and Consumer Science, or Marketing Tech

9th Grade

English 9
Physical Science or Biology I
Applied Algebra A, Algebra I, or Algebra I Honors
Physical Education and/or Health
World Studies
Fine Arts (Visual Arts or Music)
Elective(s) in Business, Art, Family and Consumer Science, or Marketing Tech

Course Sequencing by Department

	<u>Grade Level</u>				<u>Course #</u>	<u>Credit</u>	<u>Page</u>
Aerospace Science (Air Force JROTC)							
Aerospace Science I	9	10	11	12	0051	1	20
Aerospace Science II		10	11	12	0052	1	20
Aerospace Science III			11	12	0053	1	21
Aerospace Science IV				12	0054	1	21
Art							
Textiles and Fibers I	9	10	11	12	0101	½	21
Ceramics I: Basic Ceramics	9	10	11	12	0104	½	21
Drawing I: Basic Drawing	9	10	11	12	0107	½	22
Painting I: Basic Painting	9	10	11	12	0110	½	22
Sculpture I: Basic Sculpture	9	10	11	12	0113	½	22
Digital Imaging	9	10	11	12	0116	½	23
Textiles and Fibers II		10	11	12	0102	½	21
Textiles and Fibers III: Advanced		10	11	12	0103	½	21
Ceramics II: Ceramic Ideas and Glazes		10	11	12	0105	½	21
Ceramics III: Advanced Ceramics		10	11	12	0106	½	21
Drawing II		10	11	12	0108	½	22
Drawing III: Advanced Drawing		10	11	12	0109	½	22
Painting II		10	11	12	0111	½	22
Painting III: Advanced Painting		10	11	12	0112	½	22
Sculpture II : Sculpture Media		10	11	12	0114	½	22
Sculpture III: Advanced Sculpture		10	11	12	0115	½	22
Digital Video/Animation		10	11	12	0117	½	23
Digital Design		10	11	12	0118	½	23
Broadcast Media		10	11	12	0120	½	23
Biomedical Sciences - PLTW							
Principles of Biomedical Sciences	9	10	11	12	0410	1	23
Human Body Systems		10	11	12	0411	1	23
Medical Interventions			11	12	0412	1	24
Biomedical Innovation				12	0413	1	24
Business							
Principles of Global Business	9	10	11	12	0150	½	24
Google Applications and Desktop Publishing	9	10	11	12	0160	½	25
Intro to Excel and PowerPoint	9	10	11	12	0161	½	25
Accounting I	9	10	11	12	0152	1	24
Accounting II		10	11	12	0153	½	24
Personal Financial Literacy			11	12	0151	½	24
College and Career Exploration for Juniors			11	12	0157	½	25
Keyboarding for the College Bound			11	12	0159	½	25
Yearbook I			11	12	0242	1	25
Yearbook II				12	0243	1	25
College Fundamentals for Seniors				12	0158	½	25
Engineering – Pathway to Engineering - PLTW							
Introduction to Engineering Design (IED)	9	10	11	12	0430	1	26
Aerospace Engineering (AE)		10	11	12	0433	1	26
Principles of Engineering (POE)		10	11	12	0431	1	26
Digital Electronics (DE)			11	12	0432	1	26
English							
English for the Limited English Proficient	9	10	11	12	0260	1	28
English 9	9				0203	1	27
English 9 – Honors	9				0202	1	27
English 10		10			0205	1	27

	<u>Grade Level</u>				<u>Course #</u>	<u>Credit</u>	<u>Page</u>
English (continued)							
English 10 – Honors	10				0204	1	27
Writing for the College Bound Student	10	11	12		0241	1	28
Writing for the Career Bound Student	10	11	12		0242	1	28
Creative Writing	10	11	12		0250	½	28
Drama	10	11	12		0231	½	27
Speech	10	11	12		0221	½	27
Science Fiction and Fantasy	10	11	12		0265	½	28
English 11		11	12		0271	1	28
English 12		11	12		0281	1	28
Language & Composition – Honors – AP		11	12		0294	1	29
Literature & Composition–Honors–AP		11	12		0295	1	29
Family and Consumer Sciences							
Introduction to Family and Consumer Sciences	9	10			0370	½	29
Culinary Fundamentals	9	10	11	12	0372	½	29
GRADS I (semester 1)	9	10	11	12	0360	½	29
GRADS II (semester 2)	9	10	11	12	0361	½	29
Global Foods		10	11	12	0373	½	29
Child Development		10	11	12	0374	½	29
Freshmen Focus							
Freshman Focus	9				FF	½	30
Focus Leadership			11	12	FL	½	30
Health							
Health – Life Choices	9	10	11	12	0707	½	30
Health – The Human Body - Advanced	9	10	11	12	0708	½	30
Sports Medicine			11	12	0709	½	30
Marketing – GCCC Tech Prep							
Introduction to Marketing	9	10	11	12	0163	1	31
Professional and Technical Sales		10	11	12	0166	1	31
International Marketing		10	11	12	0167	1	31
Strategic Entrepreneurship		10	11	12	0168	1	31
Mathematics							
Applied Algebra A	9				0520	1	32
Applied Algebra B		10			0521	1	32
Algebra I	9				0522	1	32
Algebra I - Honors	9				0523	1	32
Geometry	9	10			0531	1	33
Geometry - Honors	9	10			0532	1	33
Algebra II		10	11		0524	1	32
Algebra II – Honors		10	11		0525	1	33
Functions			11	12	0535	1	33
Pre-Calculus			11	12	0542	1	33
Pre-Calculus – Honors			11	12	0543	1	33
Statistics – Honors - Advanced Placement			11	12	0560	1	33
Calculus AB – Honors – Advanced Placement				12	0545	1	33
Modern World Languages							
Spanish I	9	10	11	12	0331	1	34
Spanish II		10	11	12	0332	1	34
Spanish III – Honors			11	12	0333	1	34
Spanish IV – Honors				12	0334	1	34

	<u>Grade Level</u>				<u>Course #</u>	<u>Credit</u>	<u>Page</u>
Music - Instrumental							
Concert Band	9	10	11	12	0608	1	34
Symphonic Winds	9	10	11	12	0605	1	34
Chamber Orchestra	9	10	11	12	0609	1	35
Symphonic Orchestra	9	10	11	12	0610	1	35
Jazz Improvisation/Rock Ensemble	9	10	11	12	0615	1	35
Music - Vocal							
Choral Union	9 ^{FM}				0601	1	35
Concert Choir	10 ^F				0602	1	35
A Cappella Choir	9 ^M	10 ^M	11 ^{FM}	12 ^{FM}	0603	1	35
Physical Education							
Physical Education Survey (PES)	9	10	11	12	0720	¼	35
Life & Leisure Activities	9	10	11	12	0721	¼	36
Life Sports	9	10	11	12	0722	¼	36
Personal Fitness	9	10	11	12	0723	¼	36
Team Sports	9	10	11	12	0724	¼	36
Competitive Team Sports			11	12	0725	½	36
Science							
Integrated Physical Science	9				0810	1	37
Biology I	9	10			0833	1	37
Biology I - Honors	9	10			0831	1	37
Chemistry I		10	11	12	0839	1	38
Honors Chemistry I		10	11	12	0841	1	38
Physics			11	12	0843	1	38
Earth and Space Science			11	12	0846	1	38
Physics I – Honors – Advanced Placement			11	12	0848	1	38
Physics II – Honors – Advanced Placement			11	12	0849	1	38
Environmental Science – Honors – Adv Placement			11	12	0847	2	38
Biology II – Honors – Advanced Placement			11	12	0832	2	37
Chemistry II – Honors – Advanced Placement			11	12	0834	2	37
Social Studies							
World Studies	9				0854	1	39
World Studies - Honors	9				0853	1	39
American Studies		10			0855	1	39
American Studies – Honors		10			0856	1	39
Government			11		0891	1	41
Government & Politics – Honors – Adv Placement			11		0888	1	40
Psychology			11	12	0870	½	40
Psychology – Honors - Advanced Placement			11	12	0873	1	40
Sociology			11	12	0871	½	40
World Affairs – Honors			11	12	0885	½	40
Economics – Honors			11	12	0872	½	40
Unified Arts							
Introduction to Law Enforcement			11	12	0061	½	41
Aides and Independent Productive Study							
Office Aide (with cum. GPA of 3.0 or better)	9	10	11	12	OA1/OA2	0	41
Teacher Aide (with cum. GPA of 3.0 or better)	9	10	11	12	TA1/TA2	0	41
Technology Aide (with cum. GPA of 3.0 or better)	9	10	11	12	TC1/TC2	0	41
IEP Productive Study	9	10	11	12	PS1/PS2	0	41
AP Independent Productive Study			11	12	AP1/AP2	0	41

	<u>Grade Level</u>				<u>Course #</u>	<u>Credit</u>	<u>Page</u>
EOC Remediation							
Algebra I EOC Remediation	9	10	11	12		0	42
English 9/10 EOC Remediation		10	11	12		0	42
Geometry EOC Remediation		10	11	12		0	42
Biology EOC Remediation		10	11	12		0	42
American Studies EOC Remediation			11	12		0	42
Government EOC Remediation				12		0	42

Course Descriptions and Fee Structure by Department

Aerospace Science – Air Force JROTC

The Air Force Junior Reserve Officer Training Corps (AFJROTC) is a program designed to develop citizens of character dedicated to serve their nation and community. Enrollment in the AFJROTC program is open to all young people who are in grades 9-12, physically fit, and United States citizens. Retired Air Force commissioned and noncommissioned officers who are full-time faculty members and employed by Fairborn City Schools teach AFJROTC classes.

Upon satisfactory completion of one year of AFJROTC, students will receive one general elective credit. Each AFJROTC class consists of three components – aerospace science (AS), leadership (LE), and a wellness program. Citizenship and character education, the heart of the curriculum program, is primarily embedded in the leadership education series of courses, while a sense of service and education in science and technology-related aerospace science is primarily found in the aerospace science series of courses. Students will spend two periods per week studying LE material, two periods on AS subject matter, and one period in wellness education, culminating in 120-180 contact hours per year for a single AFJROTC course. In other words, each course will contain a contact time blend of 40% Aerospace Science material, 40% Leadership Education material, and 20% Wellness instruction.

To reinforce what is taught in the classroom, students participate in many outside activities such as field trips to military bases, aerospace facilities and industries, museums, civilian airports and other areas related to aerospace education. This unit also offers opportunities to participate in extracurricular activities to include drill and ceremonies, leadership activities and academic groups. Additionally, community service projects are a major part of the AFJROTC experience and help instill a sense of civic pride and citizenship.

One full credit (earned through a passing grade overall) in any AFJROTC course can also qualify as a PE Option. No additional credit will be awarded for PE, but completion of this graduation requirement on a pass/fail basis will be noted in the student's record.

Air Force uniforms are furnished free, on a loan basis and are required to be worn one day a week, on field trips and on other special occasions. At the conclusion of a student's participation in the ROTC program, there is a \$15 uniform dry-cleaning fee. Also, students are expected to maintain the Air Force grooming standards.

0051 Aerospace Science I - 1 credit Course Fee: \$25.00 Uniform Fee: \$15.00 (end of year)

Prerequisites: none

This is the first Aerospace Science course for all new cadets. It is an aviation history course focusing on the development of flight throughout the centuries, beginning with ancient civilizations, then progresses through time to modern day. Leadership Education and Wellness introduces cadets to the AFJROTC program, providing a basis for progression through the rest of the AFJROTC program while instilling elements of good citizenship.

0052 Aerospace Science II - 1 credit Course Fee: \$25.00 Uniform Fee: \$15.00 (end of year)

Prerequisite: Aerospace Science I or Instructor's permission

This course is designed to follow the topics learned in Aerospace Science I and is more science-oriented, acquainting the student with the aerospace environment, the human requirements of flight, principles of aircraft flight and principles of navigation. Leadership Education and Wellness stress communications skills and cadet corps activities, with information provided on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems and personal development.

0053 Aerospace Science III - 1 credit Course Fee: \$25.00 Uniform Fee: \$15.00 (end of year)
Prerequisite: Aerospace Science II or concurrent enrollment in Aerospace Science II with Instructor's permission
There will be two subjects explored in the course. One is Cultural Studies that is specifically created for U.S. Army, Marine Corps, Navy and AFJROTC programs. Students will learn world cultures by studying world affairs, regional studies and delving into history, geography, religions, languages, culture, political systems, economics and other significant figures that shaped various regions. The second subject is Exploring Space. This subject is a science course that includes the latest information available in space science and space exploration.

0054 Aerospace Science IV - 1 credit Course Fee: \$25.00 Uniform Fee: \$15.00 (end of year)
Prerequisites: Enrollment by Instructor Recommendation only; Aerospace Science III or concurrent enrollment in Aerospace Science III
This course is structured to the individual needs of selected students. Emphasis is placed on developing leadership abilities. Students are rotated into high-level group staff positions and required to demonstrate management techniques. Course material is selected from professional journals, texts or periodicals on the subjects of aviation, space and leadership.

Art

The art program is designed to provide a broad general background in visual art and offer opportunities to pursue areas of special interest. Students should take only one studio art course per semester. Students who are planning for a career in an art field should contact one of the art instructors for assistance in planning their overall program of study. The art instructors can also provide direction and assistance to students who are preparing portfolios for art-related college entrance requirements. **All level II and III art courses are only open to sophomore through seniors.**

0101 Textiles & Fibers I : Basic - ½ credit Course Fee: \$22.00
Prerequisites: none
This is an introductory class that includes a wide variety of techniques including weaving, paper making, and basket construction. Emphasis will be placed upon creating decorative objects that may be used for wearing apparel or home decorations.

0102 Textiles & Fibers II - ½ credit Course Fee: \$22.00
Prerequisite: Textiles & Fibers I and Sophomore or higher status
Students will explore more advanced processes of learned in Textiles and Fibers I, as well as more in-depth concepts in jewelry. Emphasis will be placed on functional decorative design and craftsmanship.

0103 Textiles & Fibers III : Advanced - ½ credit Course Fee: \$22.00
Prerequisite: Textiles & Fibers II and Sophomore or higher status
Textiles and Fibers III is for serious students who are willing to do in-depth research and experimentation with fiber and textile media. Emphasis will be placed on independent experimentation and the development of craftsmanship leading to a well-designed and well-made end product.

0104 Ceramics I: Basic Ceramics - ½ credit Course Fee: \$25.00
Prerequisites: None
This is a studio class with clay as the medium. Students are introduced to the history and science of clay and the basic methods of clay construction and firing. Students are expected to learn the basic techniques like coil, pinch, slab, handmade molds, and wheel throwing. Students are encouraged to develop clay forms of self-expression.

0105 Ceramics II : Ceramic Ideas and Glazes - ½ credit Course Fee: \$26.00
Prerequisite: Ceramics I and Sophomore or higher status
This is a studio class with clay and glaze as the medium. Students continue working in the areas they explored in Ceramics I, such as mold construction, wheel throwing, reduction carving, coil building and firing. Students work from complex ideas and potter examples. Students experiment with various glaze applications.

0106 Ceramics III : Advanced Ceramics - ½ credit Course Fee: \$30.00
Prerequisite: Ceramics II and Sophomore or higher status
This is a studio class using clay, glazes, and alternative clay tools. Students are to develop skills in their own areas of interest, such as wheel throwing. They will use a range of glazes and slips. Students also are to develop techniques of decoration through research and experimentation. Students will learn firing methods and be able to assist in the firing. Independent study is encouraged with student-initiated research and materials selection.

0107 Drawing I : Basic Drawing - ½ credit

Course Fee: \$22.00

Prerequisite: none

This course is for those students who wish to advance their skill in drawing. Areas of study will include drawing from observation such as: still life, landscape, figure study, and portrait drawing. Media will include pencil and charcoal. Emphasis will be placed on experimenting with techniques, media, and style.

0108 Drawing II - ½ credit

Course Fee: \$22.00

Prerequisite: Drawing I and Sophomore or higher status

Drawing II students will be expected to have mastered basic drawing skills and techniques. Students will work with a variety of drawing techniques, media, and concepts. Students will begin working on their portfolios for art school admission and scholarship competition.

0109 Drawing III : Advanced Drawing - ½ credit

Course Fee: \$24.00

Prerequisite: Drawing II and Sophomore or higher status

Drawing III is for advanced art students only. Students will complete high-quality work in one concentrated area of their choice. Students will complete their portfolios for art school admission and scholarship competition.

0110 Painting I : Basic Painting- ½ credit

Course Fee: \$30.00

Prerequisites: none

In this introductory painting class, students will work in acrylic and watercolor. Studio activities will emphasize color relationships and theory as applied to painting still life, figures, portraits, landscapes, and abstraction. Students will develop original ideas for expression, and learn basic painting techniques. All painting students will compare famous painters their work, and techniques.

0111 Painting II - ½ credit

Course Fee: \$30.00

Prerequisite: Painting I and Sophomore or higher status

Painting II students will explore several historical artists and subject matters. Students will have the opportunity to work with acrylic, oil, and a watercolor medium.

0112 Painting III: Advanced Painting - ½ credit

Course Fee: \$30.00

Prerequisite: Painting II and Sophomore or higher status

Painting III students will explore various historical styles of expression, such as impressionism, surrealism, abstraction, and non-objective. Emphasis will be placed upon applying cumulative awareness of personal interests, painting techniques, and style preferences. Students will develop individual styles of expression.

0113 Sculpture I : Basic Sculpture - ½ credit

Course Fee: \$25.00

Prerequisites: none

Three-dimensional form will be studied in a variety of materials including paper, plaster, wire, metals, foam, and plastic. Emphasis will be placed on developing original ideas and selecting the most effective techniques to express them in 3-D. The history and culture of sculpture and the works of various sculptors will be studied.

0114 Sculpture II : Sculpture Media - ½ credit

Course Fee: \$27.00

Prerequisite: Sculpture I and Sophomore or higher status

This course consists of the study of three-dimensional form using a limited number of materials. The materials are to be selected based on the students' experiences in Sculpture I. A minimum of two materials is to be used. Emphasis will be placed on the students' originality and the comparison of their work in relation to the history and current trends of the medium in which they are working. Students will complete a full study of a famous artist.

0115 Sculpture III : Advanced Sculpture - ½ credit

Course Fee: \$29.00

Prerequisite: Sculpture II and Sophomore or higher status

This course is based on students solving three-dimensional problems using materials based on the experience in Sculpture II. Emphasis will be placed on defining 3-D problems and creating new projects from familiar materials. Student work will be created for public display.

0116 Digital Imaging – ½ credit

Course Fee: \$25.00

Prerequisite: none

In this beginning-level course, students will study the elements of art and the principles of design as they relate to digital art. Students will learn the basic tools and skills of Adobe's Illustrator and Photoshop programs, and use them to create and/or design landscapes and various types of self-portraiture. Students will be able to create a digital portfolio of their work, saving it onto a DVD. Students should have their own digital camera and flash drive to take and transfer digital images for use within these programs (cell phone cameras may be utilized as long as students have the proper cables to transfer images to the computer).

0117 Digital Video/Animation – ½ credit

Course Fee: \$25.00

Prerequisite: Digital Imaging and Sophomore or higher status

In this beginning-level course, students will study visual communication as it relates to video and animation. Students will learn the basic tools and skills of Adobe's Premiere Pro and After Effects programs, and use them to explore, create and edit short films, and animations. Students will create a digital portfolio of their work, saving it onto a DVD. Students should have their own digital video camera to take digital video footage for use within these programs (cell phone cameras may be utilized as long as students have the proper cables to transfer images/videos to the computer).

0118 Digital Design – ½ credit

Course Fee: \$25.00

Prerequisites: Digital Video/Animation and Sophomore or higher status

This advanced-level course will build upon the concepts learned in Digital Imaging and Digital Video/Animation. Students will focus on advertising art for print and video using the skills they have acquired in Digital Imaging and Digital Video/Animation.

0120 Broadcast Media – ½ credit

Course Fee: \$25.00

Prerequisites: Digital Video/Animation and Sophomore or higher status

This course will build upon the concepts learned in Digital Imaging and Digital Video/Animation and apply them to mass communication. Students will learn the tools and skills of broadcast media, using studio production equipment to produce television programs. Students who take this class will participate in the creation of the school's daily announcements.

Biomedical Sciences – Project Lead the Way (PLTW)

This program follows PLTW's proven commitment to educational improvement by combining a rigorous and relevant curriculum with project- and problem-based instruction and experiences. The sequence of high school courses in the biomedical sciences program parallels the proven PLTW engineering curriculum. The initial PLTW Biomedical Sciences program includes four courses, all aligned with appropriate national learning standards: Principles of Biomedical Sciences, Human Body Systems, Medical Interventions and Science Research. NOTE: Concurrent enrollment in Principles of Biomedical Science and Human Body Systems is permitted only with teacher recommendation and counselor approval.

0410 Principles of Biomedical Science - 1 credit

Lab Fee: \$35.00

Prerequisite: Concurrent enrollment in college-preparatory English and mathematics

This is the first course in the PLTW Pathway to Biomedical Sciences series. Students explore the concepts of human medicine and are introduced to research processes and to bioinformatics. Hands-on projects enable students to investigate human body systems, various health conditions and infectious diseases. Students will work collaboratively to determine the factors that led to the death of a fictional person and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The course is designed to provide an overview of all of the courses in the Biomedical Sciences program and to lay the scientific foundation necessary for success in the subsequent courses. Engineering principles are also incorporated where appropriate. These include the design process, feedback loops, fluid dynamics and the relationship of structure to function. This course is classified as a general elective course.

0411 Human Body Systems – 1 credit

Lab Fee: \$35.00

Prerequisite: Principles of Biomedical Science **and** concurrent enrollment in college-preparatory English and math

This is the second course in the PLTW Pathway to Biomedical Sciences series. Students examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health. Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include designing experiments, investigating the structures and functions of body systems and functions. Important concepts covered include communication, transport of substances, locomotion, metabolic processes defense and protection. This course is classified as a biological sciences course. [NOTE: Students

are eligible for 3 credit hours from Sinclair Community College if they achieve a course grade of B or higher and receive a stanine score of 6 or higher on the PLTW end-of-course assessment.]

0412 Medical Interventions – 1 credit

Lab Fee: \$35.00

Prerequisite: Human Body Systems **and** concurrent enrollment in college-preparatory English and mathematics
This is the third course in the PLTW Pathway to Biomedical Sciences series. Students gain knowledge and skill in genetic principles and molecular methods of analysis. Topics include enzymology, protein purification, and gene expression and organization. Students perform biomolecular applications using knowledge of nucleic acid structure and function, DNA replication, transcription, translation, chromosome structure and remodeling and regulation of gene expression in prokaryotes and eukaryotes. Additionally, students will use electrophoresis to separate nucleic acids and proteins to determine molecular weight. This course is classified as a *biological sciences* course. [NOTE: Students are eligible for 3 credit hours from Sinclair Community College if they achieve a course grade of B or higher and receive a stanine score of 6 or higher on the PLTW end-of-course assessment.]

0413 Biomedical Innovation – 1 credit

Lab Fee: \$35.00

Prerequisite: Medical Interventions **and** concurrent enrollment in college-preparatory English and mathematics
Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering and public health. They have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution or the biomedical industry. Throughout the course, students are expected to present their work to an audience of STEM professionals. This course is designed for 12th grade students.

Business

0150 Principles of Global Business – ½ credit

Course Fee: none

Prerequisite: none

This course will introduce students to global business and economic principles. Topics will include supply and demand, economic systems, international trade, entrepreneurship, leadership and management, and business ethics. Time permitting, students will develop a product idea, including packaging, pricing and marketing. This course replaces Introduction to Business and cannot be taken if credit has been received from past Intro to Business courses.

0151 Personal Financial Literacy - ½ credit

Course Fee: none

Prerequisite: Grade status of 11 or 12

This course is a graduation requirement. Students will learn basic personal finance skills which include budgeting, renting, credit, car leasing/purchasing, paychecks, taxes and different types of insurances. Through project-based instruction, students will also develop skills related to money concepts including checking, saving, investing, interest income and finance charges. If time permits, information about identity theft, fraud and consumer rights will also be covered. (Sophomores may take with counselor approval.)

0152 Accounting I - 1 credit

Course Fee: Cost of Workbook and Practice Set

Prerequisite: Algebra I

This is an introductory course in accounting which is the process of keeping financial records for a business. Students will record, classify, verify, summarize, and interpret all types of financial transactions. Accounting concepts including balance sheets, income statements, journalizing, posting and all phases of the accounting cycle are studied. This course is recommended for students who wish to continue their education in a business-related subject or wants to be a business owner. Good daily attendance is necessary to accomplish the course work.

0153 Accounting II – ½ credit

Course Fee: Cost of Workbook and Practice Set

Prerequisite: Accounting I

After a brief review of the accounting concepts and practices from Accounting I, this semester course teaches advanced accounting concepts. Topics include journalizing and posting transactions, financial statements and the closing process, payroll accounting, and depreciation entries. It is highly recommended for college-bound business students. The intensive course pace and content requires good daily attendance.

0157 College and Career Exploration for Juniors - ½ credit

Course Fee: none

Prerequisite: Grade status of 11 (or 12 with counselor approval)

This course will help junior students improve ACT test taking skills by exposing them to practice tests, good study habits and preparation techniques. Students will take interest assessments, explore different careers, and possibly participate in job shadowing. Career speakers, college representatives and community business owners will share information with the class. The main focus of the class will be devoted to researching career and college options.

0159 Keyboarding for the College Bound - ½ credit

Course Fee: none

Prerequisite: Grade status of 11 or 12

The students will learn the proper touch-typing technique in order to develop speed in preparing college papers. Correct formatting for professional letters and resumes will be taught. The students will learn to insert a table in a document in order to properly summarize research information. Both the MLA and APA style reports will be presented in order to prepare the students to be successful in college.

0158 College Fundamentals for Seniors - ½ credit

Course Fee: none

Prerequisite: Grade status of 12

Different types of colleges and the degrees that each college offers will be explored to help the students select a college that best fits their needs. The course will include visits from college admissions or financial personnel, as well as visits from current college students. Students will fill out college applications, write admission essays, locate and apply for numerous college scholarships, and learn about the FAFSA form and college loans. Practice ACT tests will also be used. At least one college visit is required.

0160 Google Applications and Desktop Publishing - ½ credit

Course Fee: none

Prerequisite: none

This is an introductory course in the use of Google Docs, Google Slides, and Google Sheets. The students will also study principles of page layout and design and desktop publishing terminology and application. Project-based instruction will be provided to help students create original layouts of several publications. Projects include: newsletters, flyers, greeting cards, menus, and product designs.

0161 Intro to Excel and PowerPoint - ½ credit

Course Fee: none

Prerequisite: none

This course is designed to help students gain expertise in two Microsoft Office Suite applications: PowerPoint (presentation software) and Excel (a spreadsheet program). Students will develop PowerPoint skills in applying slide transitions and animations, inserting graphics, hyperlinks, and many other techniques used in slide design and slide shows. Students will also develop skills in Excel including writing formulas, charting, and formatting values and fields. Students will be required to design and complete individual projects. This course is extremely valuable in improving student's presentation skills for high school and college.

0242 Yearbook I - 1 credit

Course Fee: none

Prerequisite: Grade status of 11 or 12

Requirement: Course Application and 2.5 GPA

Students who enroll in this course are responsible for the publishing, editing and financing of the yearbook. The yearbook records the history of the school year and the people who were involved in the year's activities. Yearbook staff members choose the theme, plan the layout of the yearbook, design pages on computers, and solicit advertising.

0243 Yearbook II - 1 credit

Course Fee: none

Prerequisite: Yearbook I

Requirement: 2.5 GPA

Students who enroll in this course are responsible for the publishing, editing and financing of the yearbook. The yearbook records the history of the school year and the people who were involved in the year's activities. Yearbook II staff members take an active role in theme development, layout of the yearbook, page design on computers, and usually serve as section editors.

Engineering – Project Lead the Way (PLTW)

The PLTW Pathway to Engineering program features 3 tiers that include Foundation Courses (Introduction to Engineering Design, Principles of Engineering and Digital Electronics), Specialization Courses (Aerospace Engineering, Biotechnical Engineering, Civil Engineering & Architecture and Computer Integrated Manufacturing) and a Capstone course (Engineering Design and Development) completed in the Senior Year. *[NOTE: Students are eligible for transferrable college credit from Sinclair Community College following the completion of four courses in the series and receiving qualifying scores on the PLTW end-of-course assessments.]*

0430 Introduction to Engineering Design (IED) – 1 credit Lab Fee: \$35.00

Prerequisite: Concurrent enrollment in college preparatory mathematics and science

This is the first class in the PLTW Engineering program and teaches problem-solving skills using a design development process. Students will learn how to use Autodesk CAD Inventor, a state of the art computer-aided-design software package. Students are exposed to different types of engineering drawings and will learn how to use a systematic design process. Each quarter students will complete projects that incorporate CAD and design skills: designing a puzzle cube, creating CAD drawings of toy trains, reengineering an existing product to make it better, and a “start from scratch” team design. Students will be exposed to concepts from geometry, statistics, dimensioning, tolerances and advanced modeling techniques while completing the projects. This course is classified as a general elective course.

0431 Principles of Engineering (POE) - 1 credit Lab Fee: \$35.00

Prerequisite: Introduction to Engineering Design **and** concurrent enrollment in college preparatory math and science

POE is a broad-based survey course designed to give students an understanding of the wide variety of careers in engineering. Students will study energy while building and testing simple machines, electric circuits, model solar-powered hydrogen fuel cell cars and insulation for testing. Students will study strength of materials by experimenting with beam deflection, analyze forces on trusses and perform tensile tests on sample materials to explore elasticity and strength. Students will also learn about machine control using a flow-chart-based computer program on robotic kits equipped with motors, switches and sensors. In POE, students will be exposed to mechanisms, thermodynamics, fluid systems, electrical systems, control systems, statics, strength of materials and kinematics. This class requires students to learn how to use engineering/mathematical formulas to solve problems. **This course is designed for 10th, 11th, or 12th grade students.** This course is classified as a physical sciences course.

0432 Digital Electronics (DE) – 1 credit Lab Fee: \$35.00

Prerequisite: Introduction to Engineering Design **and** concurrent enrollment in college preparatory math and science

DE is the study of electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of all modern electronic devices such as cellular telephones, MP3 players, laptop computers, digital cameras and high-definition televisions. The major focus of the course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation. Students will also learn basic robotics by constructing and controlling kits called bobots. **This course is designed for 11th or 12th grade students.** This course is classified as a physical sciences course.

0433 Aerospace Engineering (AE) – 1 credit Lab Fee: \$35.00

Prerequisite: Introduction to Engineering Design **and** concurrent enrollment in college preparatory math and science.

AE explores the evolution of flight, navigation and control, flight fundamentals, aerospace materials, propulsion, space travel and orbital mechanics. In addition, this course presents alternative applications for aerospace engineering concepts. Students analyze, design and build aerospace systems. They apply knowledge gained throughout the course in a final presentation about the future of the industry and their professional goals.

English

Students are required to earn four English credits as part of their graduation requirements. All English classes include reading, vocabulary, grammar, spelling, composition and literature but with varying degrees of emphasis and difficulty. **All English classes require that students complete at least one major writing assignment. Failure to complete this major assignment will result in the failure to pass the quarter in which the assignment was made.**

English Language Arts Sequencing Recommendations

Course Timing	General High School Track	General College Prep Track	Accelerated College Prep Track	Advanced College Prep Track
Grade 9	English 9	English 9	English 9 -OR- English 9 Honors	English 9 Honors
Grade 10	English 10	English 10	English 10 -OR- English 10 Honors	English 10 Honors
Grade 11	English 11	English 11	English 11 -OR- Lang & Comp AP	Language & Composition AP
Grade 12	Writing for the College / Career Bound - AND - One additional ELA ½-credit course	English 12	English 12 -OR- Lit & Comp AP	Literature & Composition AP

0202 English 9 - Honors - 1 credit

Course Fee: Cost of Supplemental Text(s)

Prerequisite: Teacher recommendation

This course is similar to the English 9 course, but the depth, breadth, and speed of the class will be advanced. The number of sections scheduled may be limited. This course has a required end-of-course (EOC) exam.

0203 English 9 - 1 credit

Course Fee: Cost of Supplemental Text(s)

Prerequisite: none

English 9 is a required course in grade 9 and is integrated with the language arts curriculum and state standards. This course includes the study of literature with an emphasis on non-fiction, composition, oral communications, independent reading, vocabulary development, grammar, and the mechanics of writing. This course has a required end-of-course (EOC) exam.

0204 English 10 - Honors - 1 credit

Course Fee: Cost of supplemental text(s)

Prerequisite: English 9 Honors **or** English 9 (with a strong teacher recommendation suggested)

This course is similar to the English 10 course, but the depth, breadth and speed of the class will be advanced. The number of sections scheduled may be limited. This course has a required end-of-course (EOC) exam.

0205 English 10 - 1 credit

Course Fee: Cost of Supplemental Text(s)

Prerequisite: English 9

English 10 is a required course in grade 10 and is integrated with the language arts curriculum and state standards. This course includes the study of literature with an emphasis on non-fiction, composition, oral communications, independent reading, vocabulary development, grammar and the mechanics of writing. This course has a required end-of-course (EOC) exam.

0221 Speech - ½ credit

Course Fee: none

Prerequisite: English 9 **or** English 9 Honors **and** concurrent enrollment in or completion of English 10

Speech is an *English elective* which will provide students with experiences in public speaking that will develop an awareness of everyday speaking situations. Students will be required to organize and deliver several types of platform speeches and develop an awareness of various communication media.

0231 Drama - ½ credit

Course Fee: none

Prerequisite: English 9 **or** English 9 Honors **and** concurrent enrollment in or completion of English 10

This *English elective* course is designed to acquaint students with theater as an art form. Students will study the history of theater, read plays, learn technical theater skills and participate in theater performance activities. Students will develop skills in reading, writing, memorization, live acting techniques and active participation as they explore skills related to the various types and components of live performance.

0250 Creative Writing - ½ credit

Course Fee: none

Prerequisite: English 9 **or** English 9 Honors **and** concurrent enrollment in or completion of English 10

This course is an *English elective* and is designed for students who want to improve their writing of poems, short stories, drama and essays. Modern short stories and poetry will be studied, both to increase the understanding of human experience and to observe the writer's techniques. **A final portfolio encompassing all styles of writing is required to earn credit.**

0251 Writing for the College-Bound Student – 1/2 credit

Course Fee: Cost of supplemental text(s)

Prerequisite: English 9 Honors **or** English 9

This course counts as an *English elective* and may be taken by any students in grades 10-12 who desire to improve their college prep writing skills. The course will focus on various formal writing formats including: informational, persuasive/argumentative, synthesis, college applications, and formal presentations. *Course content will include instruction on writing a five-page MLA/APA-format research paper which will be a requirement for passing the course. This class (or Writing for the Career-Bound Student) is a requirement for any student not taking English 12 or an AP ELA course in their last year of high school.*

0252 Writing for the Career-Bound Student – 1/2 credit

Course Fee: Cost of supplemental text(s)

Prerequisite: English 9 Honors **or** English 9

This course counts as an *English elective* and may be taken by any students in grades 10-12 who desire to improve the basic writing skills needed in a variety of non-college degree career fields. The course will focus on various formal writing formats including: informational, persuasive/argumentative, business communications, resume writing, cover letters, letters of request/complaint, and presentations. *Course content will include instruction on writing a three page MLA/APA format research paper will be a requirement for passing the course. This class (or Writing for the College-Bound Student) is a requirement for any student not taking English 12 or an AP ELA course in their last year of high school.*

0260 English for the Limited English Proficient (ESL) - 1 credit

Course Fee: none

Prerequisites: none

This course is designed for students whose native language is not English and whose skills are limited in English proficiency. It is strongly recommended that students enroll in a standard English class in tandem with the ESL English class for a richer educational exposure to the written and spoken English language. **The NCAA Clearinghouse will not count this course as an English credit.**

0265 Science Fiction and Fantasy - ½ credit

Course Fee: Cost of supplemental text(s)

Prerequisite: English 9 **or** English 9 Honors **and** concurrent enrollment in or completion of English 10

This college-preparatory *English elective* course is a survey of science fiction and fantasy since the twentieth century. **This course is reading intensive** and entails discussions and writing assignments that address the social impact and the foresight of the writers' works.

0271 English 11 - 1 credit

Course Fee: Cost of Supplemental Text(s)

Prerequisite: English 10 **or** English 10 Honors

English 11 is a required course integrating language arts skills as outlined in the state standards with an emphasis on American Literature. The course includes the study of literature with an emphasis on non-fiction, composition, oral communications, independent reading, vocabulary development, grammar and the mechanics of writing. *(Students may elect to enroll in an Advanced Placement Composition course in place of the English 11 requirement.)*

0281 English 12 - 1 credit

Course Fee: Cost of Supplementary Text(s)

Prerequisite: Concurrent enrollment in or completion of English 11 **or** Language & Composition-Honors-AP

This college-preparatory course is a survey of British literature from the early times to modern day. It is a course integrating of language arts skills as outlined in the state standards with an emphasis on British Literature. The course includes the study of literature with an emphasis on non-fiction, composition, oral communications, independent reading, vocabulary development, grammar and the mechanics of writing. *(Students may elect to enroll in an Advanced Placement Composition course in place of the English 12 requirement.)*

0294 Language & Composition – Honors – Advanced Placement - 1 credit

Course Fee: Costs for Supplemental Text(s)

Prerequisite: English 9 or English 9 Honors **and** English 10 or English 10 Honors

This college-preparatory course is designed to help students become skilled readers of prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. The course will emphasize the expository, analytical and argumentative writing that forms the basis of academic and professional communication, as well as the personal, synthesis and reflective writing that fosters the ability to write in any context including taking the AP Exam. This course may be taken as either a junior or senior. *(It is strongly recommended that students complete Language & Composition prior to Literature & Composition.)*

0295 Literature & Composition – Honors – Advanced Placement - 1 credit

Course Fee: Costs for Supplemental Text(s)

Prerequisite: English 9 or English 9 Honors **and** English 10 or English 10 Honors; it is strongly recommended that students complete Language & Composition AP as a pre-requisite as well

This college-preparatory course provides a more in-depth survey of world literature with emphasis on oral and written literary analysis. Through discussion, reading, and writing, students will become aware of the resources of language and how style, subject, and audience are related. Language, characters, action, themes, structure, meaning, and value will be examined. This course prepares students to take the Advanced Placement Exam for English Literature and Composition for which college credit may be awarded. The challenging reading selections require students to possess maturity, good judgment, and insight. *(It is recommended that students complete Language & Composition prior to Literature & Composition. Taking Literature and Composition without first completing Language and Composition requires administrative approval.)*

Family and Consumer Sciences – GCCC Career Tech

0360 (sem 1); 0361(sem 2) Graduation, Reality, and Dual-Role Skills (GRADS) - ½ credit each

Course Fee: none

Prerequisite: student is a parent or a parent-to-be

GRADS is an in-school program for pregnant and parenting teens, both male and female, that focuses on knowledge and skills related to positive self, pregnancy, parenting and economic independence. If applicable, students are encouraged to enroll for both 0360 and 0361 when registering for the GRADS program.

0370 Introduction to Family and Consumer Sciences - ½ credit

Course Fee: none

Prerequisite: Grade status of 9 or 10 recommended

This first course provides students with an overview of four major areas of Family and Consumer Sciences. Students will be introduced to child development, family relationship concepts, and how they relate to family dynamics. Students will identify financial literacy and consumer/economic principles, understand the concepts of design through textiles for personal and home use, and develop communication, leadership and career investigation skills.

0372 Culinary Fundamentals - ½ credit

Course Fee: none

Prerequisite: none

Students will apply fundamental culinary techniques, such as knife handling skills, and recognize, select and properly use tools and equipment. An emphasis is on time management, ingredients, and equipment, and apply standard recipe conversions using proper scaling and measurement techniques.

0373 Global Foods - ½ credit

Course Fee: none

Prerequisite: Culinary Fundamentals; grade status of 10 or higher recommended

Students will compare cuisines, ingredients and preferred cooking methods of various cultures. The influence of traditions and regional/cultural perspectives on food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market, and apply advanced cooking techniques, including the use of specialty and advanced equipment in the preparation of food dishes.

0374 Child Development – ½ credit

Course Fee: none

Prerequisite: Grade status of 10 or higher recommended

In this course, students will study the principles of child growth, development and behavior. An emphasis will be place on the cognitive development of a child and sensory and motor skills. Additional topics will include childhood diseases, immunizations, theories of development, learning styles and evaluating childcare services.

Freshmen Focus

Fairborn High School is committed to providing incoming freshman with a support system to help ease the transition into high school and learn what it means to be a Skyhawk by way of the Freshmen Focus program. The program utilizes the talents and strengths of upperclassmen who serve as peer-leaders along with the Focus teachers. **Focus classes will not figure into GPA calculations nor will it count toward athletic eligibility.**

FF Freshmen Focus - ½ credit, Pass/No Credit

Course Fee: none

Prerequisite: none

This full-year enrichment course is required for all 9th grade students who are entering high school for the first time. Freshman Focus class includes several components that will help individuals adapt to high school: orientation activities, values assessments, conflict resolution, how-to sessions, spirit activities, study skills, personality and learning style assessments, academic and career exploration, extra-curricular and co-curricular opportunities, just to name a few. Freshmen Focus is scheduled during the advisory period, and therefore it will not interfere with other scheduled courses. Students are expected to attend a 2-day orientation camp in the Summer.

FL Focus Leadership - ½ credit, Pass/No Credit

Course Fee: none

Prerequisites: 1. Junior or Senior Standing

2. Completed Course Application **and** Approval of Administration

3. Required attendance at a 2-day Focus Leader training session in summer

4. Required attendance at the 2-day Freshman Focus camp session in summer

This full-year enrichment course is limited to juniors and seniors who meet the enrollment criteria and who are selected/approved as Focus Leaders. Students applying for this course are expected to make a commitment to the Focus program for the entire school year and must be available (in attendance) during scheduled Advisory periods. Focus Leaders play an integral role in planning and coordinating Freshman Focus classes, actively mentoring and championing freshman students, and acting as positive role models for students at all grade levels. Focus Leadership is scheduled during an advisory period, and therefore it should not interfere with other scheduled courses.

Health

Students are encouraged to earn one-half credit of health by the end of their sophomore year and as part of graduation requirements.

0707 Health – Life Choices - ½ credit

Course Fee: none

Prerequisite: none

This basic health class provides a framework for making healthy decisions. In addition to learning communication and goal-setting skills, students have an opportunity to apply a responsible decision-making model to many lifetime health situations. Topics include mental and emotional health, nutrition, sex education, healthy relationships, addictions and drug and alcohol education. **Note: enrollment in this course will forfeit enrollment in Health – The Human Body.**

0708 Health – The Human Body - Advanced - ½ credit

Course Fee: none

Prerequisite: none

The Human Body is a fast-paced health class that focuses on the study of the human body. A significant portion of the class involves learning and using proper vocabulary of anatomical structures and common terms used in medical fields. Topics will include body systems and their functions, nutrition, sex education, disorders and disease. This course will be taught from a medical perspective. **Note: enrollment in this course will forfeit enrollment in Health – Life Choices.**

0709 Sports Medicine - ½ credit

Course Fee: \$10.00

Prerequisite: 1. Grade status of 11 or 12

2. Health-Human Body or Biomedical Sciences with a final grade of B or higher

3. Completed course application

Sports Medicine will build on the anatomical concepts taught in Human Body covering evaluation of injury and functional assessments. The class would also incorporate a lab component where students would be exposed to the tools and techniques used by athletic trainers and physical therapists in treating and rehabilitating injuries. The lab would also include instruction on taping, first aid/CPR, and event set up.

Marketing – GCCC Tech Prep

Marketing is for Fairborn students interested in careers in marketing management, entrepreneurship, and service occupations. Topics covered in the classes include public relations, advertising, sales promotion, and retail management. All marketing students can participate in DECA at district, state, and national levels. *NOTE: A Career-Technical Student Organization fee may be assessed and collected by the Greene County Career Center instructor for these courses. Students who take all four courses will complete the Career Tech program and be eligible for the Tech Prep Scholarship.

0163 Introduction to Marketing – 1 credit

Fee: *See note in Marketing overview above

Prerequisite: none

This is an introductory course to marketing. Students will obtain fundamental knowledge and skills in marketing communications, marketing management, marketing research, merchandising, and professional selling. Leadership, technology, and communications will be incorporated in classroom activities.

0166 Professional and Technical Sales – 1 credit

Fee: *See note in Marketing overview above

Prerequisite: Introduction to Marketing

In this course, students will demonstrate sales processes and techniques used in business-to-business environment. Students will monitor trends and the business environment to determine the impact on their sales, customers, and competitors. Students will also manage sales activities.

0167 International Marketing – 1 credit

Fee: *See note in Marketing overview above

Prerequisite: Introduction to Marketing

Students will evaluate global business strategies and market-entry methods for conducting business internationally. They will use technology to determine the impact of government, economics, geography, history, and digital communication tools on global trade. They will also be able to analyze the competitiveness of US companies in the international marketplace.

0168 Strategic Entrepreneurship – 1 credit

Fee: *See note in Marketing overview above

Prerequisite: Introduction to Marketing

Students will use innovation skills to generate ideas for new product and services, evaluate the feasibility of ideas, and develop a strategy for commercialization. Students will take initial steps to establish a business, including establishing a brand, setting prices, and promoting products. ***Students who complete the course with a C or better and earn a qualifying score on the end-of-course assessment will be eligible to receive post-secondary credit.***

Mathematics

Students are required to earn four math credits as part of their graduation requirements. The minimal recommended high school math sequence is Algebra I, Geometry, Algebra II and an additional credit of math electives. Completing this four-year sequence will fulfill typical college entrance requirements for those students who are interested in the humanities, while the usual sequence of math courses for students with interests in science, mathematics, engineering, law and medicine is Advanced Algebra I, Geometry Honors, Algebra II-Honors, Pre-Calculus-Honors and a calculus course. **Graphing or scientific calculators are required for some math courses.** Calculators with QWERTY keyboards are not permitted. Students are highly discouraged from doubling up on Algebra I and Geometry should they fail Algebra I and have to retake it.

Mathematics Sequencing Recommendations				
Course Timing	General High School Track (Must have teacher recommendation)	Standard High School Track	Standard College Prep Track	Accelerated College Prep Track
Grade 8	Math 8	Math 8	Math 8	Algebra I
Grade 9	Applied Algebra A	Algebra I	Algebra I -OR- Algebra I Honors	Geometry Honors
Grade 10	Applied Algebra B	Geometry	Geometry -OR- Geometry Honors	Algebra II -OR- Algebra II Honors
Grade 11	Geometry	Algebra II	Algebra II -OR- Algebra II Honors	Pre-Calculus -OR- Pre-Calculus Honors
Grade 12	Algebra II	Functions	Functions -OR- Pre-Calculus -OR- Pre-Calculus Honors	AP Statistics -OR- AP Calculus

0520 Applied Algebra A – 1 credit

Course Fee: none

Prerequisite: Teacher Recommendation

This is the first of a two-year sequence that will satisfy the Ohio Core Graduation requirements of Algebra I and provide the foundations for future Mathematics courses. Topics include functions, graphs, manipulation of algebraic expressions and the solutions of equations and inequalities. Enrollment in this course will be limited to those students who have been identified as needing a stronger foundation to succeed in Algebra I. Teacher recommendation is required. Upon successful completion of this course, students will enroll in Applied Algebra B. ***This course will not count towards eligibility for NCAA purposes.***

0521 Applied Algebra B – 1 credit

Course Fee: none

Prerequisite: Teacher Recommendation and successful completion of Applied Algebra A

This is the second of a two-year sequence that will satisfy the Ohio Core Graduation requirements of Algebra I. Topics include functions, quadratic equations and graphs, exponential expressions, the solutions of equations and inequalities, the solutions of systems, probability, and statistics. Students are required to take the Algebra I Mathematics end-of-course exam associated with this course. This course is only open to students who have taken Applied Algebra A.

0522 Algebra I - 1 credit

Course Fee: none

Prerequisite: none

Algebra I is the course most freshmen take as their first college-preparatory high school mathematics course. This is a course in the language and methods of algebraic expressions and sentences. Topics include functions, graphs, manipulation of algebraic expressions, solutions of equations and inequalities, solutions of systems, quadratic equations and graphs, exponential expressions, probability, and statistics. Students are required to take the Algebra I Mathematics end-of-course exam associated with this course.

0523 Algebra I - Honors - 1 credit

Course Fee: none

Prerequisite: Teacher Recommendation

This course covers all of the topics taught in Algebra I, with an in-depth understanding of linear and exponential relationships. Students will apply linear models to data while examining trends as they engage in methods for analyzing, solving, and using quadratic functions. In addition, students will expand their experience with functions to include more specialized functions, such as absolute value, step, and piecewise defined functions. Students are required to take the Algebra I Mathematics end-of-course exam associated with this course.

0524 Algebra II - 1 credit

Course Fee: none

Prerequisite: Geometry or Geometry Honors

This required course continues from and extends the skills and concepts from the more advanced topics in Algebra I and stresses verbal precision and applications. The concept of function is introduced with emphasis on linear, quadratic and logarithmic functions.

0525 Algebra II – Honors - 1 credit

Course Fee: none

Prerequisite: B or better in Algebra I **and** B or better in Geometry Honors

Requirement: Graphing Calculator (TI-84+SE recommended)

This course covers all of the topics taught in Algebra II plus a thorough discussion and analysis of trigonometry. Graphing calculators are required and are used to enhance the curriculum. This course moves more rapidly and is more challenging than regular Algebra II; it is designed for students planning a career in mathematics, engineering, physics, etc. Computer projects may be included.

0531 Geometry - 1 credit

Course Fee: none

Prerequisite: Algebra I (or both Applied Algebra A and B) or Algebra I Honors

This course is a study of traditional Euclidean Geometry enhanced with three-dimensional exercises. Students will integrate the use of Algebra in problem solving and study all the theorems and properties of plane geometry. Students are required to take the Geometry Mathematics end-of-course exam associated with this course.

0532 Geometry - Honors - 1 credit

Course Fee: none

Prerequisite: Successful completion of Algebra I with a C or better; (A or B in Algebra I is *strongly* recommended)

This course contains all of the topics in Geometry with a primary focus on practicing and understanding deductive logic through written proofs of mathematical theorems and exercises. Students are required to take the Geometry Mathematics end-of-course exam associated with this course.

0535 Functions - 1 credit

Course Fee: none

Prerequisite: Algebra II

This course is an option for students who need additional preparation before taking Pre-calculus, AP math classes, or college level math courses. The course includes operations with complex numbers, solving equations and inequalities, and analyzing functions. Students will study matrix algebra, including applications, logarithmic and trigonometric functions, including unit circle trigonometry and trigonometric identities. Operations with conic sections will be explored and volume formulas will be used to solve problems. Probability and statistic operations with graphing calculators will be used to calculate expected value and evaluate outcomes of decisions.

0542 Pre-Calculus - 1 credit

Course Fee: none

Prerequisite: Algebra II-Honors **or** Algebra II with a C or higher recommended

Requirement: Graphing Calculator (TI-84+SE recommended)

This course is specifically designed for college-bound students. The course concepts include but are not limited to trigonometry, complex numbers, relations, functions, vectors, polar equations, conic sections and detailed use of graphing calculators to explore these concepts with deeper understanding.

0543 Pre-Calculus – Honors - 1 credit

Course Fee: none

Prerequisite: Algebra II – Honors

Requirement: Graphing Calculator (TI-84+SE recommended)

This course is designed for students who have mastered the concepts of trigonometry and analysis. It is a thorough course in the detailed study of all types of functions. Trigonometric and analytical ideas are used throughout the course. Computer projects may be included.

0545 Calculus AB – Honors – Advanced Placement - 1 credit

Course Fee: none

Prerequisite: Pre-Calculus **or** Pre-Calculus-Honors

Requirement: Graphing Calculator (TI-84+SE recommended)

This course covers both differential and integral calculus. This course prepares students to take the Advanced Placement Exam for Calculus AB for which college credit may be awarded. All students enrolled will take a practice mock exam, parts of which may be administered outside the regular school day. Computer projects may be included.

0560 Statistics – Honors - Advanced Placement - 1 credit

Course Fee: none

Prerequisite: Algebra II **or** Algebra II Honors

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data: Describing patterns and departures from patterns, Sampling and Experimentation: Planning and conducting a study, Anticipating Patterns: Exploring random phenomena using probability and simulation and Statistical Inference: Estimating population parameters and testing hypotheses. Students who successfully complete the course and exam may receive credit, advanced placement or both for a one-semester introductory college statistics course. All students enrolled will take a practice mock exam, parts of which may be administered outside the regular school day.

Modern World Languages

Although modern world language is not a requirement for graduation, most four-year colleges and universities require students to complete at least two years of the same modern world language. A minimum of three years of one modern world language or two years of two modern world languages is required for a diploma with honors. The State of Ohio now requires students to utilize the target language while in class and to use as many authentic sources as possible. Fairborn's Modern World Language department endeavors to teach students in the target language to better prepare them for the future in accordance with Ohio Department of Education and the American Council on the Teaching of Foreign Languages recommendations.

0331 Spanish I - 1 credit

Course Fee: none

Prerequisite: Final grade of C or higher in ELA is required for incoming 9th graders

Spanish I introduces students to the fundamentals of the language and the culture and geography of Spain and Latin-American nations. A communicative approach is utilized to prepare the students for the future in a world where Spanish is becoming a much more important part of the United States. Students will engage in different activities utilizing the language while acquiring grammar, vocabulary, reading, writing, speaking and listening skills.

0332 Spanish II - 1 credit

Course Fee: none

Prerequisite: Spanish I (with a C average or higher recommended)

Spanish II is an in-depth review and continuation of Spanish I utilizing the target language. Emphasis is placed on the study of expanded vocabulary, grammar, conversation skills, reading and writing skills. The course includes more complex studies in Spanish and Latin American history and culture, but emphasis continues to be in oral and written work.

0333 Spanish III – Honors - 1 credit

Course Fee: none

Prerequisite: Spanish II (with a B average or higher recommended) **and** Teacher Recommendation

Spanish III is an intensive study of written and spoken Spanish whereby the target language will be used. Continued emphasis is placed on the study of expanded vocabulary, advanced grammar, conversation skills, reading and writing skills. Students read longer selections, study the history and culture of Spain and Latin America and give oral presentations.

0334 Spanish IV – Honors - 1 credit

Course Fee: none

Prerequisite: Spanish III (with a B average or higher recommended) **and** Teacher Recommendation

Spanish IV is a continuation of Spanish III. Emphasis is placed on the study of advanced grammar, culture, and literature. Students continue to improve their skills in written and spoken Spanish. Students will have presentations, independent studies and research papers to complete as well as projects. As in the other three levels, this class will utilize the target language.

Music - Instrumental

0605 Symphonic Winds - 1 credit

Course Fee: \$35.00 for all students

Additional Fee: \$75.00 for females (one-time concert dress purchase);
\$35.00 for males (annual tuxedo rental)

Prerequisite/Requirement: **Audition and Teacher Recommendation**

Symphonic Winds is the premier wind ensemble at FHS and is open to students in grades 9-12 who play a brass, woodwind or percussion instrument. Students will only be admitted to the class by audition. This performance-based class will include marching, concert and solo and ensemble literature with an OMEA difficulty rating of A or AA. Study of advanced music concepts will include all major and minor scales, advanced rhythmic studies, advanced listening, advanced harmony skills, basic music theory and analysis of the social implications of the music performed. This group has a minimum of five required performances during the school year.

0608 Concert Band – 1 credit

Course Fee: \$35.00 (music purchasing and instrument/equipment maintenance)

Prerequisite/Requirement: **Audition and Teacher Recommendation**

Concert Band is open to all students in grades 9-12 who play brass, woodwind or percussion instruments. This performance-based class will include concert and solo and ensemble music with a Class C or Class B OMEA difficulty level. Focus is on fundamentals of ensemble performance including tone quality, scales, rhythm, balance, blend and technique. This group has a minimum of four required performances during the school year.

0609 Chamber Orchestra - 1 credit

Course Fee: none

Prerequisite/Requirement: **Audition and Teacher Recommendation**

Chamber Orchestra is open to all students in grades 9-12 who play stringed instruments. This performance-based class will include concert and solo and ensemble music for strings with a B- or C-OMEA difficulty level. Focus is on fundamentals of ensemble performance including tone quality, scales, rhythm, balance and blend. This group has a minimum of four required performances during the school year.

0610 Symphonic Orchestra - 1 credit

Course Fee: none

Prerequisite/Requirement: **Audition and Teacher Recommendation**

This is the premier orchestral ensemble at FHS open to students in grades 9-12. This performance-based class will focus on the study of advanced musical concepts including scale and technique exercises, rhythmic studies, music theory, sight reading and intonation acuity. This group has at a minimum of five required performances during the school year.

0615 Jazz Improvisation/Rock Band Ensemble - 1 credit

Course Fee: \$15.00 workbook

Prerequisite/Requirement: **Audition and Teacher Recommendation**

This class is designed for individuals who want to learn how to improvise and play in a small ensemble setting. We play various styles in this class including rock, jazz, funk and Latin. This performance-based class is open to students in grades 9-12 who play brass and woodwind instruments, drum-set, guitar, electric or upright bass and piano. This is an advanced ensemble and individuals will have to have a thorough knowledge of major and minor scales and have a high level of ability on their instrument. Students will also be given several music theory tests throughout the year. Guitar players must have initial knowledge of reading tablature and will be taught how to read written music. Bass players must be able to read music notation. Drum-set players must be able to perform basic rhythm styles (rock, Latin and funk beats) and must be able to read music notation.

Music - Vocal

0601 Choral Union - 1 credit

Course Fee: \$45.00

Prerequisite: Grade status of 9

Requirement: **Audition and Teacher Recommendation**

This freshman-level choir class objectives are developing basic vocal skills and techniques, improving part-singing and music reading skills, and preparing choral literature for performance. This choir performs at school concerts and various contests with a minimum of four required performances during the school year.

0602 Concert Choir - 1 credit

Course Fee: \$45.00

Prerequisite: Grade status of 10 for female parts only.

Requirement: **Audition and Teacher Recommendation**

Concert Choir is open to female students in grade 10. Objectives are to develop vocal skills and techniques, improve part-singing and music reading skills, and prepare choral literature for performance at concerts and contests with a minimum of five required performances during the school year.

0603 A Cappella Choir - 1 credit

Course Fee: \$45.00

Prerequisite: Grade status 11 and 12 for female parts; grade status 9-12 for male parts

Requirement: **Audition and Teacher Recommendation**

A Cappella Choir is a large group ensemble with the objectives of further developing vocal skills and techniques, improving part-singing and music reading skills, and preparing choral literature for performance at concerts and contests with a minimum of five required performances during the school year.

Physical Education

0720 Physical Education Survey (PES) - ¼ credit

Course Fee: none

Prerequisite: none

This semester course is required for all students who have not yet earned ¼ physical education credit. PES encompasses short units of various physical education topics and activities which includes a sampling of the various PE courses that students can take after PES. Proper footwear is required for participation in this course.

0721 Life & Leisure Activities - ¼ credit

Course Fee: none

Prerequisite: ¼ physical education credit

In this semester course students will have the opportunity to become proficient in a variety of individual sports and activities. Core activities may include darts, table tennis, corn hole, badminton, bowling, juggling and line dancing. Each of these individualized sports and activities are designed to provide a basis for future leisure time pursuits. Proper footwear is required for participation in this course.

0722 Life Sports - ¼ credit

Course Fee: none

Prerequisite: ¼ physical education credit

This semester course students will have the opportunity to become proficient in a variety of sports that can be considered "lifetime sports" including tennis, golf, sand volleyball, and competitive Frisbee. Each of these sports are designed to provide a basis for future leisure time pursuits. A change of clothing and proper footwear is required for this course.

0723 Personal Fitness - ¼ credit

Course Fee: none

Prerequisite: ¼ physical education credit

Using a progression of weightlifting, flexibility and cardiovascular activities, students will develop and implement individualized personal fitness plans. Various locations will host these fitness activities: the FHS fitness room, the Community Park East par course and the FHS track facilities. This semester fitness class will assist students in developing and maintaining an optimum level of physical health. A change of clothing and proper footwear is required for this course.

0724 Team Sports - ¼ credit

Course Fee: none

Prerequisite: ¼ physical education credit

By emphasizing cooperative skills and leadership skills, this team-oriented course will provide opportunities for students to actively participate in several team sports. Core activities may include volleyball, basketball, flag football, soccer and floor hockey. Through these activities students will develop team strategy skills and tactical awareness. A change of clothing and proper footwear is required for this semester course.

0725 Competitive Team Sports – ½ credit

Course Fee: none

Prerequisite: Junior or Senior status **and** ½ physical education credit

This co-ed course will follow a tournament-style format and is intended for students who have extensive competitive sports experience. This is a physically demanding course which may include basketball, volleyball, soccer, team handball, flag football and Ultimate Frisbee. A change of clothing and proper footwear is required for this semester course.

Science

Students are required to earn three science credits as part of their graduation requirements. **Students must have one unit of biological science, one unit of physical science and one unit of advanced study.**

The diagram that follows contains a graphical representation of the recommended course sequences for science. If you have any questions about the science sequence that is most suited to you, please contact your science teacher or your school counselor.

Science Sequencing Recommendations

Course Timing	Basic High School Track	General College Prep Track	Accelerated College Prep Track	Advanced College Prep Track
Grade 9	Integrated Physical Science	Biology I	Biology I -OR- Biology I Honors	Biology I Honors
Grade 10	Biology I	Chemistry I	Chemistry I -OR- Chemistry I Honors	Chemistry I Honors
Grade 11	Earth & Space Science -OR- Physics	Earth & Space Science (or Physics)	Earth & Space Science -OR- AP Physics I	AP Biology II, AP Chemistry II, AP Environmental Science, or AP Physics I
Grade 12	None Required -BUT- Option to take another Science as an elective	Physics (or Earth & Space Science)	AP Physics II, AP Environmental Science -OR- Other AP Option	AP Biology II, AP Chemistry II, AP Environmental Science, or AP Physics II

0810 Integrated Physical Science - 1 credit

Course Fee: \$10.00

Prerequisite: none

This is an entry-level course that discusses matter and energy. This course will provide an introduction to the periodic table, the atomic model, chemical interactions, Newton's Laws of motion, energy, earth processes and the universe. In addition, this course will focus on the process of science, which includes inquiry learning and active problem solving. There will be a lab component throughout the year. This course fulfills the physical science requirement for graduation.

0831 Biology I - Honors - 1 credit

Course Fee: \$10.00

Prerequisite: Grade status 9 only; Final grade of B or better in Science 8 **and** Teacher recommendation.

This is an advanced course designed for the college-bound freshmen student. It is a well-balanced introductory course that challenges students in their study of many biological topics. Cell biology, genetics, kingdom studies and ecology are all emphasized with consideration made toward biological problems and issues of special importance to man. Projects, technology applications and laboratory experiences are integral parts of the course. This is a preparatory class for future studies in honors chemistry and advanced-placement biology. **Biology I students may not also take Biology I Honors.** This course has a required end-of-course (EOC) exam. This course fulfills the biological science requirement for graduation.

0832 Biology II – Honors– Advanced Placement - 2 credits

Course Fee: \$20.00 + Study Guide \$20.00

Prerequisite: Biology I Honors (or Biology I) **and** Chemistry I Honors (or Chemistry I)

This is a full-year course that prepares students to take the Advanced Placement Exam for Biology for which college credit may be awarded. AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations that provide students with opportunities to apply the science practices as they explore the following topics: evolution, cellular processes – energy and communication, genetics, information transfer, ecology, and interactions. Extensive laboratory, project and presentation work is included that have students ask questions, make observations/ predictions, design experiments, analyze data, and construct arguments in a collaborative setting. This course is a must have for those pursuing a medical related profession. Field trips and guest speakers are planned. AP Bio meets for two periods every day.

0833 Biology I – 1 credit

Course Fee: \$10.00

Prerequisite: none

This is a basic biology course that will include the study of cells, heredity, biological evolution and the diversity and interdependence of life. There will be a lab component throughout the year. This course has a required end-of-course (EOC) exam. This course fulfills the biological science requirement for graduation.

0834 Chemistry II – Honors – Advanced Placement - 2 credits

Course Fee: \$20.00

Prerequisite: B average or better in both Algebra II **and** Honors Chemistry

Requirement: Scientific or Graphing Calculator

This rigorous and fast-paced course meets 2 periods a day, follows a college-level general chemistry curriculum, and prepares students to take the Advanced Placement Exam for Chemistry for which college credit may be awarded. Students will gain an appreciation for the intricate reactions that control and maintain life. Many Honors Chemistry I topics are reviewed and studied to greater depth. Additional advanced topics include chemical equilibria, kinetics, and thermodynamics. This course requires mastery of algebra skills, excellent work ethics, and extensive lab work.

0839 Chemistry I – 1 credit Course Fee: \$15.00

Prerequisite: Biology I or Biology I Honors **and** Algebra I

Requirement: Scientific or Graphing Calculator

This introductory course takes a classical approach to the theory and application of chemistry. Lecture and laboratory topics included mathematical problem-solving in Chemistry, atomic structure, chemical formulas and nomenclature, principals of bonding, chemical quantities, and stoichiometry, chemical reactions and equations, gas laws, phases and intermolecular attraction, thermochemistry and solutions. It is expected that students entering this course have a thorough command of Algebra with a prerequisite of Algebra I. This course fulfills the physical science requirement for graduation.

0841 Chemistry I - Honors - 1 credit Course Fee: \$15.00

Prerequisite: Biology I or Biology I Honors **and** a B average or better in Algebra I

Requirement: Scientific or Graphing Calculator

This accelerated introductory course takes a classical approach to the theory and application of chemistry. It is college preparatory in nature and is intended for students in grades 10, 11 or 12 who are planning higher education in either science or engineering. Examples of career paths would include physicians, nurses, physical therapists, biologist, chemists, biochemists, and all fields of engineering. Lecture and laboratory topics included mathematical problem-solving in chemistry, atomic structure, chemical formulas and nomenclature, principals of bonding, chemical quantities, stoichiometry, chemical reactions and equations, gas laws, phases and intermolecular attraction, thermochemistry, kinetics, equilibrium, acids and bases, and electrochemistry. This course fulfills the physical science requirement for graduation.

Note: Students are expected to be concurrently enrolled in Algebra II, and will be required to complete summer assignments prior to entering the course in the fall.

0843 Physics - 1 credit Course Fee: \$10.00

Prerequisite: 1 credit **each** of physical science **and** biological science **as well as** Algebra I **and** Geometry

Physics provides a conceptual option to students who otherwise would not take a physics course. The course focuses less on computational aspects and more on mental imagery that relates to things and events in the everyday environment.

This course fulfills a physical science requirement for graduation.

0846 Earth and Space Science - 1 credit Course Fee: \$10.00

Prerequisite: 1 credit **each** of physical science **and** biological science

This course will provide students an overview of earth science principles that will include astronomy, geology, mining, natural resource management, volcanism, earthquakes, meteorology and the theory of global warming. The interaction of man with these systems will be emphasized. It is a writing-intensive course focusing on the processes of science using inquiry learning, computer-based learning, active problem solving and model building.

0847 Environmental Science – Honors – Advanced Placement - 2 credits Course Fee: \$20.00

Prerequisite: Any chemistry course; Earth Science would also be beneficial.

This year-long course takes a critical thinking, research and project-based approach in modeling a college-level introductory environmental science curriculum and aligns with the Advanced Placement exam for Environmental Science for which college credit may be earned. This course provides students with scientific principles, concepts, and methodologies required to understand the interrelationships of their environment, to identify and analyze natural and human-made environmental problems in order to evaluate relative risk associated with these problems, and to examine alternative solutions for solving or preventing them. Topics include Earth systems, natural resources, land and water use, ecology, energy, pollution, population dynamics, climate change and current events. This class meets for two periods every day.

0848 Physics I – Honors – Advanced Placement - 1 credit Course Fee: \$20.00

Prerequisite: Chemistry I or Chemistry I Honors **and** Geometry Honors or Geometry

This course focuses on the big ideas typically included in the first semester of an algebra-based introductory college physics sequence. Through inquiry-based learning, students will develop critical thinking and reasoning skills as defined by the AP Science Practices as explore the following topics: kinematics, dynamics, circular motion, Universal Law of Gravitation, simple harmonic motion, impulse and momentum, work and energy, wave theory, and rotational motion.

0849 Physics II – Honors – Advanced Placement - 1 credit Course Fee: \$20.00

Prerequisite: Physics I – Honors – Advanced Placement

This course focuses on the big ideas typically included in the second semester of an algebra-based introductory college physics sequence. Through inquiry-based learning, students will develop critical thinking and reasoning skills as defined by the AP Science Practices as explore the following topics: electrostatics, circuitry, magnetism, fluids, thermodynamics, optics, quantum physics, and atomic physics.

Social Studies

Students must earn three social studies credits including **World Studies, American Studies and Government** (or Honors/AP equivalents) as part of their graduation requirements.

Social Studies Sequencing Recommendations				
Course Timing	General High School Track	General College Prep Track	Accelerated College Prep Track	Advanced College Prep Track
Grade 9	World Studies	World Studies	World Studies -OR- World Studies Honors	World Studies Honors
Grade 10	American Studies	American Studies	American Studies -OR- American Studies Honors	American Studies Honors
Grade 11	Government	Government	Government -OR- Government AP	Government AP
Grade 12	None Required -BUT- Option to take another Social Studies class as an elective	Psychology -OR- Sociology	World Affairs Honors -OR- Economics Honors -OR- World History AP -OR- Psychology AP	World History AP -OR- Psychology AP

0853 World Studies - Honors - 1 credit

Course Fee: none

Prerequisite: Middle School Teacher recommendations if they are available.

World Studies is a freshman-level course in which students will analyze World History from 1600 to the present in an in-depth manner. Understanding today's interconnected world begins with an understanding of its history. Students will be required to read and analyze primary and secondary sources, research various topics and write term papers. Typically for freshmen, this course will help prepare students for the rigors of college courses.

0854 World Studies - 1 credit

Course Fee: none

Prerequisite: none

World Studies is a freshmen-level course that consists of the chronological study of the world from 1750 to the present and Age of Revolutions through the twenty-first century. This course will include the seven social studies standards: history, people in society, geography, economics, government, citizenship rights and responsibilities and social studies skills and methods. Students will develop a deeper understanding of the role citizens play in their countries. The influences of geography, culture and economics will be emphasized. Students will understand how governmental changes that happened during this historical period have affected the world as a whole.

0855 American Studies - 1 credit

Course Fee: none

Prerequisite: World Studies or World Studies Honors

American Studies is a sophomore-level course that examines the history of the United States of America from 1877 to the present. 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 has a required end-of-course (EOC) exam.

0856 American Studies – Honors - 1 credit

Course Fee: none

Prerequisite: "B" or higher grade average in World Studies **or** World Studies Honors

This course is recommended for the student who is interested in analyzing and researching American Studies from 1875 to the present in a more in-depth fashion than the standard American Studies course. A semester project is required as is independent reading in addition to the textbook. Students that plan on attending four-year colleges would do well to take this course. This course will require that students read, write and research further than a student in the non-Honors American Studies course. This course fulfills the American Studies graduation requirement. This course has a required end-of-course (EOC) exam.

0870 Psychology - ½ credit

Course Fee: none

Prerequisite: American Studies

The facts of human behavior have changed little since the time of primitive humanity, but our understanding of them increases with each new psychological idea that is explored in this semester course. This introductory psychology course should enable students to see themselves differently and as a consequence, view their own behavior more realistically. Topics will include sensation and perception, altered states of consciousness, memory, learning, psychological disorders, testing, human development, theories of personality and other related topics.

0871 Sociology - ½ credit

Course Fee: none

Prerequisite: American Studies or American Studies Honors

Sociology is a semester course that deals with the study of human groups. Each society sets up unique social arrangements for satisfying the biological and psychological needs of its members. The social organizations that prevail often fall short of the demands made upon them. This course deals with the attempts made by our own culture and other cultures to change the institutions or to change the individuals in order to achieve a harmony between the self and his or her society. Topics will include social interactions, cultures and variations of cultures, processes of socialization, social institutions and other current social issues.

0872 Economics – Honors - ½ credit

Course Fee: none

Prerequisite: B average or better in American Studies or American Studies Honors

Economics is the study of how a nation organizes itself to produce the goods and services that the people want and need and how these goods and services are distributed to the people. Economics – Honors discusses how supply and demand determine price in the free enterprise system. Other areas discussed are: comparative economic systems, money and banking, international trade and gold reserves outflow to other nations, business enterprises and the selling of stock and the capitalistic system. Projects relating to current economic events using the computer lab will be included.

0873 Psychology – Honors- Advanced Placement - 1 credit

Course Fee: Cost of Supplementary Text(s)

Prerequisite: B or higher average in American Studies or American Studies Honors

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the facts, principals, and phenomena associated with each of the major subfields within psychology. Students learn about the ethics and methods psychologists use in their science and practice. The course provides a learning experience equivalent to an entry level college psychology course and prepares students to take the AP Exam for Psychology for which college credit may be awarded.

0885 World Affairs – Honors - ½ credit

Course Fee: none

Prerequisite: B average or better in American Studies or American Studies Honors

The World Affairs Honors class is directed along lines that will help students develop an understanding of the complexity of U.S. involvement in international affairs and the effectiveness and limitations of various instruments of foreign policy. Students also will keep abreast of the current national and international events of major significance. During the semester, an in-depth study is made of several topics. A series of readings is used in the course. In addition, research is required. Those students who are interested in obtaining an understanding of the “why” of world events and who are willing to read and form intelligent opinions will find the course valuable.

0888 Government & Politics –Honors– Advanced Placement - 1 credit

Course Fee: Cost of Supplementary Text(s)

Prerequisite: “B” average or better in American Studies

Government must be completed during the junior year. This is a fast paced, reading-intensive course providing an analytical perspective on government and politics in the United States. This course involves the study of general concepts used to interpret U.S. politics, the analysis of specific case studies and requires familiarity with the various institutions, groups, beliefs and ideas that constitute U.S. political culture. This course is well-suited for those students who are interested in pursuing a future in government, criminal justice or community leadership. The course also prepares students to take the Advanced Placement Exam for Government for which college credit may be awarded. **This course fulfills the government requirement for graduation.** This course has a required end-of-course (EOC) exam.

0891 Government - 1 credit:

Course Fee: none

Prerequisite: American Studies **or** American Studies Honors

Government must be completed during the junior year. How the American people govern themselves at the national, state and local levels of government is the basis of this course. A special emphasis is placed on key documents, such as the Bill of Rights, in the development of our nation. Moreover, students should take away the understanding that a democratic government's survival depends upon the intelligent decisions of informed voters. **This course fulfills the government requirement for graduation.** This course has a required end-of-course (EOC) exam.

Unified Arts

0061 Introduction to Law Enforcement - ½ credit

Course Fee: none

Prerequisites: 1. English 10 or English 10 Honors with a C or higher **and**
2. ½ physical education credit earned **and**
3. Algebra I **and**
4. Grade status 11 or higher

Intro to Law Enforcement is a course specifically aimed at students interested in learning more about various law enforcement agencies and topics related to the field of law enforcement. The course will be taught by staff from the Fairborn Police Department in cooperation with FHS instructors. Students who enroll in this course are responsible for actively participating in hands-on projects, training scenarios and traditional classroom activities. Topics will include a physical fitness component, and may include officer safety, traffic enforcement and crash investigation, the criminal justice system, crime scene processing, corrections and rehabilitation and career options.

Aides and Independent Productive Study

OA1/OA2 Office Aide – No Credit

Course Fee: none

Students with a cumulative GPA of 3.0 or better may serve as a semester or year-long office aide. Approval from office staff is required. Students should register for the office aide course twice if planning on serving for a full year. Students may not be an aide for more than one period each semester. A request for serving as an aide is not a guarantee that a student will be selected as one.

TA1/TA2 Teacher Aide – No Credit

Course Fee: none

Students with a cumulative GPA of 3.0 or better may serve as a semester or year-long teacher aide. Approval from the teacher is required. Students should register for the teacher aide course twice if planning on serving for a full year. Students may not be an aide for more than one period each semester. A request for serving as an aide is not a guarantee that a student will be selected as one.

TC1/TC2 Technology Aide – No Credit

Course Fee: none

Students with a cumulative GPA of 3.0 or better may serve as a semester or year-long tech aide. Approval from the staff tech assistant is required. Students should register for the tech aide course twice if planning on serving for a full year. Students may not be an aide for more than one period each semester. A request for serving as an aide is not a guarantee that a student will be selected as one.

PS1/PS2 IEP Productive Study – No Credit

Course Fee: none

Students with an Individualized Education Plan (IEP) may request IEP Productive Study. This course offering will provide supervised group study time in a quiet, uninterrupted environment with access to an intervention specialist teacher.

AP1/AP2 AP Independent Productive Study – No Credit

Course Fee: none

Students who are enrolled in at least one AP course may request AP Independent Productive Study. This course offering will provide supervised independent study time in a quiet, uninterrupted group environment.

EOC Remediation

Algebra I EOC Remediation – ½ credit

Course Fee: none

This course will provide enrichment and reinforcement on the appropriate Algebra I Learning Standards to assist those students who have not passed the Algebra I End of Course assessment test required by the State of Ohio for graduation. Typically, it may be offered in the first semester of the year only and students will retake the Algebra I EOC in December. Elective credit will be granted upon successful completion of this course, and grades will be reflected as pass/fail.

Biology EOC Remediation – ½ credit

Course Fee: none

This course will provide enrichment and reinforcement on the appropriate Biology Learning Standards to assist those students who have not passed the Biology End of Course assessment test required by the State of Ohio for graduation. Typically, it may be offered in the first semester of the year only and students will retake the Biology EOC in December. Elective credit will be granted upon successful completion of this course, and grades will be reflected as pass/fail.

English 9/10 EOC Remediation – ½ credit

Course Fee: none

This course will provide enrichment and reinforcement on the appropriate ELA Learning Standards to assist those students who have not passed the ELA 9 or 10 End of Course assessment test required by the State of Ohio for graduation. Typically, it may be offered in the first semester of the year only and students will retake the ELA 9 or 10 EOC in December. Elective credit will be granted upon successful completion of this course, and grades will be reflected as pass/fail.

Geometry EOC Remediation – ½ credit

Course Fee: none

This course will provide enrichment and reinforcement on the appropriate Geometry Learning Standards to assist those students who have not passed the Geometry End of Course assessment test required by the State of Ohio for graduation. Typically, it may be offered in the first semester of the year only and students will retake the Geometry EOC in December. Elective credit will be granted upon successful completion of this course, and grades will be reflected as pass/fail.

American Studies EOC Remediation – ½ credit

Course Fee: none

This course will provide enrichment and reinforcement on the appropriate American Studies Learning Standards to assist those students who have not passed the American Studies End of Course assessment test required by the State of Ohio for graduation. Typically, it may be offered in the first semester of the year only and students will retake the American Studies EOC in December. Elective credit will be granted upon successful completion of this course, and grades will be reflected as pass/fail.

Government EOC Remediation – ½ credit

Course Fee: none

This course will provide enrichment and reinforcement on the appropriate Government Learning Standards to assist those students who have not passed the Government End of Course assessment test required by the State of Ohio for graduation. Typically, it may be offered in the first semester of the year only and students will retake the Government EOC in December. Elective credit will be granted upon successful completion of this course, and grades will be reflected as pass/fail.

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IMPORTANT NOTE ABOUT ADDITIONAL CLASS OPTIONS:

See your counselor for information about new courses that may have been added after the printing of this Program of Study as well as College Credit Plus courses held at FHS. These will be listed in separate Addendums to this Program of Study.

NOTES: _____

