FINDLAY HIGH SCHOOL
COURSE SELECTION GUIDE

2017 – 2018

Recognize and Realize Your Potential
# FINDLAY HIGH SCHOOL
## MISSION STATEMENT

The Mission of the Findlay High School is to develop within each student the ability to recognize and realize their individual potential to be lifelong learners who are caring, flexible, contributing citizens in an ever changing society. This is accomplished through families, students, staff, and community working together to provide a positive atmosphere where all students can attain the virtues necessary to achieve their mental, physical, and emotional potential.

### THE NINE VIRTUES OF FINDLAY HIGH SCHOOL

<table>
<thead>
<tr>
<th>SELF-DISCIPLINE</th>
<th>RESPONSIBILITY</th>
<th>COURAGE</th>
<th>COMPASSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Goal setting is the strongest force for self-discipline. Set a goal and make it come true.”</td>
<td>“If you take responsibility for yourself, you will develop a hunger to accomplish your dreams.”</td>
<td>“The greatest test of courage on earth is to bear defeat without losing heart.”</td>
<td>“What we have done for ourselves alone dies with us; what we have done for others and the world remains and is immortal.”</td>
</tr>
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- Dan Clark
- Les Brown
- Robert G.
- Albert Pike

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<thead>
<tr>
<th>PERSEVERANCE</th>
<th>RESPECT</th>
<th>APPRECIATION OF DIVERSITY</th>
<th>HOPE</th>
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<tr>
<td>“Persistent people begin their success where others end in failure.”</td>
<td>“Respect the masterpiece. It is true reverence to man. There is no quality so great, none so much needed now.”</td>
<td>“Civilizations should be measured by the degree of diversity attained and the degree of unity retained.”</td>
<td>“The capacity for hope is the most significant fact of life. It provided human beings with a sense of distinction and the energy to get started.”</td>
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- Edward Eggleston
- Frank Lloyd Wright
- W. H. Auden
- Norman Cousins

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<thead>
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<th>INTEGRITY</th>
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<td>“Integrity is doing the right thing, even if no one is watching.”</td>
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- Don Galer
Findlay High School
Course Selection Guide
2017-2018

Findlay High School upholds a tradition of high standards and excellence. We are committed to developing and implementing a rigorous and relevant curriculum that meets a variety of student interests and state standards. Our staff is dedicated to meeting the educational needs of all Findlay High School students. To achieve this lofty goal, it is vital that staff members provide challenging course work, students work up to their full potential, and parents take an active interest in the educational process.

We encourage you to visit our website at http://fhs.findlaycityschools.org where you will find links to the daily announcements, teachers’ websites, and staff email addresses. We also recommend that families utilize Progress Book Access which is an excellent way to keep up to date with student’s progress.

Please take the time to review the course descriptions, paying special attention to the information on pages 4 through 14. This Course Selection Guide will provide you with valuable information when choosing coursework. Enclosed you will find helpful graduation and testing requirements, educational options, and much more. Each course is listed with information that is helpful when making decisions regarding course work that is interesting and challenging. We encourage you to contact the guidance office at 419-425-8270 to speak with a guidance counselor if you have any questions.

We want to ensure that your high school experience is a special one. Take advantage of all the opportunities that are available to you. Seek help from teachers, administrators and your family when needed. Get involved in school life through participation in extracurricular and co-curricular activities. Together we can help you make your high school experience a memory that you will treasure forever.

Craig Kupferberg
Principal
The purpose of the Course Selection Guide is to provide students and parents with general information about the courses available at Findlay High School. We are very fortunate to have such a wide variety of courses.

Please take the time to review these course descriptions before you make your choices. A properly selected course of study will help you meet your future goals and increase your personal satisfaction and happiness in your high school career.

Consider the information on pages 5 through 13. These pages are designed to offer information regarding course requirements for graduation and specific guidelines relating to course selection based on post-high school plans.

If you or your parents have any questions or concerns, please contact your counselor, teacher, or principal to arrange a conference.

Please note: Course availability is subject to change.
SELECTING COURSES TO ACHIEVE YOUR GOAL

It is that time of the school year when students, parents, and faculty need to plan (together) courses for next year. Each student should be seriously considering the appropriate high school program which best meets his/her needs.

This guide has been prepared to assist you in selecting a program of study for your years at Findlay High School and to acquaint you with the variety of available programs. A properly selected course of study will help you gain satisfaction and enjoyment in your high school experience. The following will help you in selecting an appropriate program of study.

- Consider the things that interest you and try to take courses that will help you increase your knowledge in your interest areas.
- Review thoroughly the available courses.
- Discuss with your counselor the results of various achievement and aptitude tests to evaluate what your strengths and weaknesses are in relation to the courses you have taken.
- Discuss with your teachers the courses they recommend/suggest you take next year.
- Consider the courses that must be taken to meet high school graduation requirements. The more planning and thought you give to registration, the more successful and enjoyable your high school experience will be.

Equal Opportunity
Findlay City Schools and Millstream Career and Technology Center ensure equal educational opportunities regardless of race, color, creed, national origin, handicap, religion or gender, in compliance with state and federal guidelines.

Course Fees
Students are required to pay fees in some courses. The fee money is used to pay for materials used by the students in those courses. Students having a financial problem should see their counselors. Fees are due at the beginning of the course. Fees are subject to change without notification.

Course Organization
Some courses are completed at the end of one semester and provide one-half (1/2) unit of credit when successfully completed. Other courses require the completion of both semesters and provide one (1 total) unit of credit when successfully completed. Often a student who fails a semester must take another course or repeat the same semester to recover the missing credit.

Athletic and Extra-Curricular Academic Eligibility
Students must conform to the following academic eligibility requirement:

- A student in grades 9 - 12 must have passed 5 full or half credit courses minimum, during the preceding grading period (Please remember that P.E. credits do not count in eligibility unless you are taking two courses in the same semester.)
- Maintain a minimum 1.5 GPA in the previous grading period.
- Receive no more than 1 F in classes during the preceding grading period.

It is strongly recommended students carry more than the minimum 5 classes, as 21 credits are required for graduation.

Academic Honors Eligibility for Move-In Students
In order for a student to be considered for the Top 10 Honors/Valedictorian or Salutatorian recognition, a student must attend Findlay High School for the entire senior year. Also, to be eligible for these honors, the student's high school career cannot exceed four school years.

Help Through Testing
Most colleges, universities, and technical schools require potential students to take either the American College Test (ACT) or the Scholastic Aptitude Test (SAT). The scores from these tests and other information obtained from your registration forms can be sent directly to educational institutions. Some colleges and universities will accept your ACT/SAT scores from your FHS transcript while other colleges and universities will want your scores to come directly from the testing companies. Most Ohio colleges, universities, and technical schools will accept either test. However, consult with your counselor to determine which test is required by the school you plan to attend. The College Board also offers specific subject tests which are required by many colleges. You should consult your prospective school for specific requirements.

College entrance exams should be taken in the spring of the junior year and/or in the fall of your senior year. Specific testing dates and registration materials are available from the counselors. If you do not take either test during the junior year, then
it is strongly recommended that you register for an early testing date in the fall of your senior year. The Preliminary Scholastic Aptitude Test (PSAT for juniors) is given in the fall of each year and provides students experience in taking standardized college entrance tests, career information, entrance into the National Merit Scholarship Competitions and identification of academic strengths/weaknesses. Sophomores may take the PSAT as a practice for their junior year.

COURSE ADD/DROP POLICY

Please choose your course selections carefully. Every attempt will be made to schedule all requested courses. In the event that a student registers for two courses in the same core area, and both courses are scheduled, the student will be required to remain in both courses. Students who do not turn in their completed scheduling form with teacher recommendations and parent signatures will have their classes scheduled for them. Schedule changes will only be made according to the add/drop and schedule change policies. Please note that the add/drop period is 10 school days (5 days for technology classes). Schedule change requests will only be granted in the fall if there is a clerical error, summer school credit was earned, schedule change is required for CCP, academic course level change (AP to H or H to CP), adding a course to ensure athletic or extra-curricular eligibility, or medical/health concerns as documented by a physician. Requests for specific teachers, lunch periods and/or courses offered during specific periods will not be honored. Students and parents are responsible for meeting graduation requirements, earning the honors diploma, and NCAA and OHSAA athletic eligibility. Teacher/counselor recommendations are provided to assist students in making wise choices and are indicators of potential success. Students are responsible for their success in the classroom regardless of the teacher/counselor recommendation. We recommend that parents talk to their student about the classes they are requesting, sign the form, and return the form to FHS with the student.

2017–2018 EMERGING TECHNOLOGY COURSES

Courses that qualify for the required Emerging Technology credit are noted in the Course Selection Guide with an “ET” written after the name and number of the course. They are also delineated on the scheduling forms. These courses include:

078 Music, Technology and You
100/200/300 Yearbook I-III
224 Interactive Multimedia II
325 Interactive Multimedia I
326 Programming & Software Development Technologies I
391 Engineering & Computer-Aided Drafting Technology I
407 Google for Education
408 Microsoft Office Specialist
426 Programming & Software Development Technologies II
447 Computer Networking & Support I
448 Computer Networking & Support II
450 Multimedia Applications
451 Encounters with Technology I
491 Engineering & Computer-Aided Drafting Technology II
499 Web Page Production I
500 Web Page Production II
552 Introduction to Programming Concepts I
553 Introduction to Programming Concepts II
GRADUATION REQUIREMENTS

It is the policy of the Board to acknowledge each student’s successful completion of the District’s instructional program by the awarding of a diploma.

The Board will award a high school diploma to every student enrolled in this District who meets the requirements of graduation established by this Board and the State of Ohio or who properly completes the goals and objectives specified in his/her individualized educational program (IEP) including any exemption from specific state or local requirements.

Students who successfully complete all required course work, as set forth below, but who have not successfully completed all required portions of the Ohio Graduation Test (OGT), may return at subsequent, regularly scheduled OGT testing times to retake deficient areas. Prior to attaining age 23, they may also return on a part-time or full-time basis to take additional high school coursework to assist them to pass any deficient portion of the OGT. Upon the successful completion of all portions of the OGT, the student will be eligible to be awarded a high school diploma from Findlay High School.

Minimum Unit/Credit Requirements

Please note: Graduation requirements are established by the State of Ohio and the Findlay City School District Board of Education and are subject to change by action of either the BOE or the State Department of Education.

Class of 2018

Course requirements for the Class of 2018 as determined by the State of Ohio and the Findlay City School District Board of Education include a minimum of twenty-one (21) credits, including:

- English ........................................... 4 units
- Mathematics ................................. 4 units (including one unit of Algebra II or equivalent)
- Science ........................................... 3 units (these must include 1 unit of Life Science, 1 unit of Physical Science and 1 Advanced Science)
- Social Studies ......................... 3.5 units (these must include .5 units of American History and .5 units of American Government)
- Econ/Financial Literacy ............. All students must receive instruction (this is embedded in FHS curriculum)
- Health & Physical Education ..... 1 total unit (.5 unit Health; .5 unit P.E. or 2 P.E. waivers; see BOE policy 8.22.7)
- Communications ....................... 5 unit (a local requirement above and beyond the Core established for all District graduates)
- Information/Emerging Tech....... 5 unit (a local requirement above and beyond the Core established for all District graduates; see courses marked “ET” in the course guide)
- Fine Arts .................................... 2 semesters in grades 7-12; students following a career-technical pathway are exempt from the fine arts requirement
- Electives ..................................... 3.5 units (these must include one or any combination of foreign language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required)
Class of 2019 and Beyond

Course unit requirements are the same as above with the exception of 3.0 units of Social Studies required and 4 electives to equal the 21 required credits.

Please note: earning 21 credits is the first of three requirements for graduation; the second requirement is to take the seven end of course tests along with a college admissions test (see testing section) and the third requirement is one of the following three options:

Option 1: Accumulate 18 Points on Ohio’s State Tests

In this option, students must accumulate a minimum of 18 points on the seven state-mandated end-of-course exams. The courses in which students take an end-of-course exam will be: English 9, English 10, Algebra I, Geometry, Physical Science (Class of 2018)/Biology (Class of 2019 & Beyond), American History, and American Government. Each required end-of-course test is scored on a 1-5 scale, according to the student’s performance level: Advanced (5 points), Accelerated (4 points), Proficient (3 points), Basic (2 points), and Limited (1 point).

Students must earn at least four points total on the English tests, four points total on the math tests, and at least 6 points total for the science and social studies tests. However, student must earn a total of at least 18 points on the seven tests. Only students whose score is below proficient will be permitted to retake a state test, or if a student has taken all 7 end-of-course tests but have not reached the 18 points needed for graduation. Students needing to retake a test must participate in specially designed help sessions before they can retake a test.

Option 2: College Readiness Test

In the student’s junior year, the State of Ohio will pay for the cost for the student to take the national test once. Students may take the test before junior year or retake it at guardian’s expense. This score can be used for college admission. Students must earn remediation free scores on the ACT: English – 18 or higher, Mathematics – 22 or higher, and Reading – 22 or higher.

Option 3: Earn Industry Certification & a Work-Readiness Score on the WorkKeys Assessment

For students who take this option (i.e. Millstream CTC students), they can earn an approved, industry-recognized credential and a workforce readiness score on WorkKeys. Students will need to receive an official credential for a skill and then earn a job readiness score on the WorkKeys assessment. Please contact Millstream for more information if this is the option you wish to pursue.

You can read more about the Ohio required assessments by visiting the following websites:
http://education.ohio.gov/Topics/Testing/Test-Talk-for-Parents-Understanding-Ohios-State

Graduation Requirements – Early Graduation/General

The Findlay City Schools Board of Education believes that four years of high school are very important for most students. However, the Board of Education acknowledges that some students seek to pursue education goals that include graduation from high school at an earlier date than their designated class. If a student desires to graduate from Findlay High School in three years, he or she will be required to submit the following:

1) A letter of request to graduate at the end of the third year must be submitted by the student during the second semester of the sophomore year. The reasons for this request must be also included.
2) A letter from parents indicating their approval and permitting the scheduling of necessary courses for graduation at the completion of the third year of school.
3) The student must meet all state and local graduation requirements.
4) Normally, changes in a student’s schedule to accommodate accelerated graduation will occur only at the start of each semester.
5) Requests for accelerated graduation will be considered by a committee consisting of the principal, counselor, parent or legal guardian, and the student. The committee will forward this information and a recommendation to the Superintendent.

6) A student who completes the requirements for accelerated high school graduation will participate in the graduation ceremonies with the class graduating in the year in which he or she completes the district’s requirements for high school graduation.

7) Beginning with the class of 2015, students must meet the graduation requirements of their cohort (grade 9) regardless of the year in which they graduate.

Classes that earn add on bonus points**
(if a grade of O, A, or B is earned)

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<thead>
<tr>
<th>Course</th>
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<th>Course</th>
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<tbody>
<tr>
<td>Honors Algebra I</td>
<td>047</td>
<td>AP Art</td>
<td>480</td>
</tr>
<tr>
<td>Honors Algebra II</td>
<td>041</td>
<td>Honors English 9</td>
<td>991</td>
</tr>
<tr>
<td>Honors Geometry</td>
<td>241</td>
<td>Honors English 10</td>
<td>211</td>
</tr>
<tr>
<td>Honors Pre-Calculus</td>
<td>341</td>
<td>AP English 11</td>
<td>311</td>
</tr>
<tr>
<td>Honors Calculus</td>
<td>441</td>
<td>AP English 12</td>
<td>411</td>
</tr>
<tr>
<td>AP Statistics</td>
<td>445</td>
<td>Honors Spanish III</td>
<td>385</td>
</tr>
<tr>
<td>AP Calculus AB</td>
<td>440</td>
<td>Honors Spanish IV</td>
<td>883</td>
</tr>
<tr>
<td>AP Calculus BC</td>
<td>439</td>
<td>AP Spanish IV/V</td>
<td>783</td>
</tr>
<tr>
<td>Honors Physical Science</td>
<td>983</td>
<td>AP French IV</td>
<td>782</td>
</tr>
<tr>
<td>Honors Biology</td>
<td>234</td>
<td>AP Latin III/IV</td>
<td>781</td>
</tr>
<tr>
<td>Honors Chemistry</td>
<td>331</td>
<td>Honors Western Civilization</td>
<td>950</td>
</tr>
<tr>
<td>AP Biology</td>
<td>309</td>
<td>AP American History 10</td>
<td>255</td>
</tr>
<tr>
<td>AP Environmental Science</td>
<td>237</td>
<td>AP European History</td>
<td>222</td>
</tr>
<tr>
<td>AP Chemistry</td>
<td>310</td>
<td>AP Government/Politics</td>
<td>422</td>
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**Bonus points will no longer exist for classes that graduate after the Class of 2018.
Other Requirements and Guidelines:

1) The student must successfully complete all state testing requirements for graduation.
2) Credit will be awarded for each semester in which a student receives a passing grade. For example, if a student enrolls in a full year (one credit) course, fails the first semester, but passes the second semester, he/she will receive a half credit.
3) Findlay City Schools may permit students in the seventh and eighth grades to take advanced work for high school credit toward the graduation requirements if it is both:
   a. taught by a person who possesses a license/certificate issued under State law that is valid for teaching high school; and
   b. approved by the Superintendent as meeting the high school’s curriculum requirements.
4) Students may re-take a course, but the student will not receive double credit for the course. Only the higher grade will be counted toward the student’s G.P.A.
5) Failure of any course, especially English, and Math may affect the student’s achievement of graduation requirements. Issuance of timely and periodic warnings to students in danger of not fulfilling graduation requirements is expected of all teachers.
6) At the time of graduation, each student must have fulfilled all academic and financial obligations.
7) A student may be exempted from the graduation requirement of two required high school quarter-credit physical education courses by participating on one of the high school’s interscholastic athletic teams, marching band, cheerleading squad, and/or JROTC. To qualify for this physical education waiver all of the following requirements must be met:
   a. The waived activity must include at least eighty (80) hours per season of practice and/or contests or average 10 hours per week of practice and/or contests to meet established time requirements. These hours do NOT include in class time, travel to and from competitions, summer camps, pre-season or post-season events.
   b. The student athlete must complete at least two full seasons of FHS interscholastic sports, marching band, cheerleading squad, or JROTC, to earn a waiver: tryouts, regular season, tournament, and award banquets. Any student removed from a waived activity and not completing the entire season for any reason (e.g. training rules violation, eligibility issues, attendance shows, competitions, etc.) will not receive credit towards the waiver. Student sustaining an injury will be held to requirements consistent with the current FHS physical education medical policy. The principal and athletic trainer will review individual injury situations on a case-by-case basis. The principal and the student’s coach will review other situations on a case-by-case basis.
   c. Students who are eligible for a waiver are encouraged to complete at least one quarter-credit of physical education (e.g. summer physical education or a semester PE class during the year).
   d. The student will be required to complete one-half unit, consisting of at least sixty (60) hours instruction in another course of study to take the place of the waived PE credit requirement.
   e. A student who participates with a team, marching band, cheerleading squad, or JROTC, but is not eligible for competitions, will not receive a waiver of the physical education requirement (i.e. student athletic trainer aides, wrestlerette, manager, statistician, etc.).
   f. The waiver of (2) quarter-credit physical education course from this policy’s graduation requirements must be approved by the principal or designee. Proof or verification of satisfactory participation may be required.
   g. A student may earn a waiver of no more than (2) quarter-credit physical education course through this program.
   h. Any approved waiver of a portion of the physical education graduation requirement will not apply to the student’s overall GPA.
   i. PE Waiver form must be completed by student and parent and submitted to the high school principal no later than 30 calendar days after the completion of the activity.
RELATING COURSE SELECTION TO POST-HIGH SCHOOL PLANS

PREPARATION FOR COLLEGE/UNIVERSITY

If you are considering courses of study in high school to prepare you for college, some of the following criteria should be carefully analyzed. Colleges generally recognize the quality of a student's record rather than the number of subjects offered in a secondary school. It is important to understand that many colleges are more flexible in their admissions than their printed requirements may suggest. They are quite often willing to accept an unconventional or incomplete record if it is offset by compensating strength or promise. If you have outstanding athletic ability, artistic ability, proven qualities of leadership, or other special and desirable characteristics, identify colleges that consider such factors to be important for admissions.

Knowing the requirements needed for admission to a particular college is important. This information will include required high school courses, admissions tests, the relative importance of the factors considered in admissions decisions, application procedures and deadlines, and the policy regarding transfer students. It is desirable to have a strong high school recommendation. The counselor, principal and/or teacher statement concerning academic ability and interest, as well as motivation, reliability, and strength of character will also have an impact on admissions.

Planning the secondary school program is the responsibility of you and your parents in consultation with your school counselor. The choice of studies is but one of the several elements taken into consideration. Courses in English, foreign language, mathematics, science and social studies are so vital to intellectual growth and attainment that continued study in the secondary school is expected.

Terms and methods of admissions vary widely, as do the colleges themselves; however, some generalizations about the admissions process are possible. Many colleges, by policy or regulation, admit all applicants who meet specified requirements. Others have many more qualified applicants than their facilities can accommodate and must select those to be admitted. In such colleges, admissions directors consider all of the student's qualifications and records together. There is seldom, for example, any single factor, such as a test score, that will either guarantee admissions or lead to rejection. The admissions committee weighs all evidence of the applicant's promise and achievement both as a student and as a person.

In the process of selection, the Committee on Admissions is likely to ask such questions as these: What is the student's academic potential? What kind of a person is he/she? What is his/her intellectual strength? Does he/she display the ability to think independently? What are his/her special abilities and interests? Has he/she shown that he/she has made effective use of his/her four years in high school? Each applicant's academic record, test scores, and reports on personal qualities that have been supplied by the counselor and teachers are examined. In some schools, importance is placed on the record of the student's participation in the life of his school and community. His/her performance on the required college admissions test is also of great importance.

You should prepare for training beyond high school by developing your ability to concentrate, to study effectively and to read carefully and critically. You will need constant practice in writing and speaking clearly and precisely. Critical and analytical thinking toward matters of both fact and opinion should be developed.

In addition to those courses required for graduation, students must also complete the following:

- Fine arts (1 credit)
- Foreign language (minimum of 2 credits)

**You should check any specific additional requirements of the colleges/universities to which you will apply.

PREPARATION FOR TECHNICAL/COMMUNITY COLLEGE

Preparing for a Technical/Community College combines academic classes with technical skill development in order to better prepare students for careers in high-tech occupations. The goal of College Tech Prep is to continue education after high school and receive at least an Associate's Degree. Tech Prep focuses on several career areas: Engineering and Computer-Aided Drafting Technology, Medical Technology, Computer Networking Technology,

**Technical College Recommendations:**

Area technical colleges recommend the completion of a high school diploma/program for entrance into technical college, but each technical college has developed its own requirements. You should check the specific admission requirements of the technical colleges to which you may apply.

**COLLEGE CREDIT PLUS**

College Credit Plus is a program that gives students an opportunity to be enrolled in both high school and college coursework at the same time. College Credit Plus replaces Ohio’s Post-Secondary Enrollment Options program (PSEO) and all Dual Enrollment (DE) programs. In order to participate, students must be academically ready for college level coursework and willing to adhere to both the demands of college and high school simultaneously. College Credit Plus courses can be completed in a variety of settings including:

- Courses offered and taken at Findlay High School taught by Findlay High School teachers who are credentialed to teach CCP courses;
- Courses offered and taken at Findlay High School taught by college/university instructors;
- Courses offered and taken on college or university campuses taught by college/university faculty;
- Online courses offered and taken through colleges or universities taught by college/university faculty.

To participate in the College Credit Plus program, students must meet the admissions requirements of the participating college or university and must demonstrate college-readiness scores on either the SAT, ACT, or other placement tests selected by the college or university.

Parents and students interested in the College Credit Plus program should attend the CCP informational meeting held each year in early January at Findlay High School. Students who wish to take CCP indicate their intention to participate by completing the College Credit Plus intent to participate form and return to their school counselor before April 1. Students interested in taking classes outside of FHS must also schedule a meeting with their school counselor to discuss courses of interest and how these courses impact graduation in addition to potential scheduling conflicts that may arise. Students will need to work closely with their school counselor when deciding which classes to enroll in and how the timing of those classes impact the student’s school day and high school schedule. Students are eligible to take a maximum of 30 credit hours between summer, fall and spring terms.

In addition, all students interested in participating in College Credit Plus must apply to the university in which they want to take courses. Each college or university offering College Credit Plus coursework at Findlay High School as well as outside of FHS will have their own individual application forms, processes, and procedures that must be followed to be admitted into each program.

Students interested in taking College Credit Plus courses off the FHS campus will still need to register for a full course load of FHS courses while registering for their 2017-2018 classes. If accepted into a university, students will then meet with their school counselors to make the appropriate schedule adjustments if the courses are outside of Findlay High School.
ADVANCED PLACEMENT ONLINE CLASSES

Students taking AP classes will be assured of the rigor needed to be successful in college classes because these are college classes offered to high school students. The intent of the learning through AP classes should result in higher scores on the college entrance exams, a stronger chance of students being accepted into the college of their choice, and enhanced chances of being awarded competitive scholarships. The credits gained from AP classes can save time and money spent on necessary college classes and are a recognized standard in schools across the nation.

Students and parents need to be aware of the need for intrinsic motivation that online courses require. Students taking an online AP class need to plan an average of 10 hours per week working on that AP class. AP curriculum is fast paced, deeper in breadth and depth, with lengthy reading passages and writing responses required daily.

Students interested in taking an online AP class should meet with their counselor to discuss this option in detail. Students who apply for an online class need a strong recommendation from a teacher who knows their strength in that discipline as well as their motivation to work independently. Prerequisites for each class are listed on the course syllabus available through the Apex Learning Website at http://apexlearning.com/Catalog.htm?id_catalog=6.

The intent of online AP courses is to alleviate difficulties with students needing singleton courses, difficult-to-schedule courses, and courses that are not offered in their high school. AP online courses should not replace a currently offered AP class that is readily available in a student’s schedule. School counselors will permit a student to take advantage of this option when it becomes evident this is the best option for the student.

If a student makes the commitment to enroll in the online class, he will be held accountable to complete that class. Grades will be treated the same as those in a campus AP class. Cumulative AP Online percentages will be translated to the high school grading system. The weighted grade system will apply to the online class. Any student not completing the commitment will be given a WDF (withdraw-failing) on the high school transcript. The final grade will be recorded on the student transcript. Enrollment in an AP Online course must stay within the maximum of eight credits allowed each year, if you are a post-secondary options student.

Students who enroll in the AP Online classes are expected to take the AP test in May. The results of this test could earn the student college credits for a savings in time and cost during the college years. Parents / students are responsible for the cost of these courses.

***Credit Flex forms need to be completed and signed at a meeting with the student’s school counselor, parent(s), department chair and principal. The deadline to submit flex credit paperwork for summer of fall is May 1. The deadline to submit flex credit paperwork for spring semester is November 1.***
CREDIT FLEXIBILITY

Students may earn credit towards graduation by completing traditional coursework, by testing out or otherwise demonstrating mastery of the course content, and/or by pursuing educational options through credit flex. Credit Flex will focus on performance and will acknowledge and address students’ different learning styles, paces, and interests, offering students the opportunity to demonstrate creativity, explore academic and career interests and practice critical thinking. Credits earned will be included on the transcript and GPA. Teachers, a multi-disciplinary team, a professional panel from the community or a state performance-based assessment may be used to determine credit. The credit flex committee, chaired by the high school principal, must approve the Credit Flex proposal. The student is responsible for following the board of educational policies and procedures while earning credit flex.

A variety of educational options are available to students on a case-by-case basis. Some options might possibly be, but are not limited to the following: correspondence course, on-line course, educational travel, independent study, and summer studies. Please talk with your counselor and look at Board Policy 8.24 to explore this option to see if it fits your needs. Remember, students also participating in College Credit Plus (CCP) are eligible for a maximum of 30 credit hours total (10 high school credits) during an academic year. The academic year begins during the summer term prior to the following school year.

***Credit Flex forms need to be completed and signed at a meeting with the student’s guidance counselor, parent(s), department chair and principal. The deadline to submit flex credit paperwork for summer of fall is May 1. The deadline to submit flex credit paperwork for spring semester is November 1.***
The purposes of the art program are:

- To develop whole brain thinkers, with critical thinking and problem solving skills.
- To promote and encourage a technical and aesthetic means to enjoy the visual arts.
- To develop perceptual and intellectual art skills toward a career.
- To encourage good individual aesthetic judgment for use as an informed consumer.

The art department provides both year-long and semester classes. All classes promote creative thinking and problem solving through higher order thinking skills. Students will exhibit an understanding of art concepts through individual application in studio experiences.

**ART I - 170**

One semester - 1/2 credit  
**Prerequisite: none**  
Grade 9, 10, 11, 12  
Fee: $25

In this course students will explore the art elements through experimentation with a variety of media and techniques. The areas covered are drawing, painting, printmaking, sculpture, and Art history, Art Criticism, and Aesthetics.

**ART II - 171**

One semester - 1/2 credit  
**Prerequisite: Art I**  
Grade 9, 10, 11, 12  
Fee: $25

Students will explore themes and subject matter in this class. They will use media such as digital photography, charcoal, pastels, and water-based media.

**ART III - 172**

Full year – 1 credit  
**Prerequisite: Art I and Art II, or with instructor approval**  
Grade 11, 12  
Fee: $50

Students in this year long course will begin building a portfolio of work while exploring diverse media. The portfolio created in Art III will demonstrate breadth; competency in a variety of areas including painting, drawing, printmaking, mixed media, and sculpture. Art III will run in conjunction with Art IV.

**DRAWING - 273**

One semester - 1/2 credit  
**Prerequisite: Art I**  
Grade 9, 10, 11, 12  
Fee: $25

Emphasis is on drawing with traditional media. In this course, students will use a variety of media, such as pencil, ink, charcoal and pastel. Through studio projects, students will develop fundamental skills drawing from observation.

**ADVANCED DRAWING – 273A**

This course requires instructor approval.  
**Prerequisite: Art 1, Drawing**  
Grade: 10,11,12  
Fee: $25

The Advanced Drawing course builds on the knowledge and skills learned in Drawing and is designed to help students find their personal voice. The class will explore a variety of approaches and materials, with emphasis of proportion, perspective, and composition.

**DIGITAL MEDIA - 291**

One Semester - 1/2 credit  
**Prerequisite: Art I**  
Grade 9, 10, 11, 12  
Fee: $25

This course is intended to engage student learning in the field of Digital Media with career based projects. Five specific competencies or skill sets will be covered: Graphic Design, Digital Photography, Video Game Design, Architecture/Interior Design and Web Design.
CERAMICS - 377
One semester - 1/2 credit  
Prerequisite: Art I  
Fee: $35  
Grade 10, 11, 12

This is an introductory course in the art of designing and producing objects made of clay. The course will explore the various techniques of forming clay such as pinching, coiling, slab building, throwing on the potter's wheel and a combination of these techniques. Glazing and firing procedures will also be covered.

ADVANCED CERAMICS - 378
This course requires instructor approval.
One semester- ½ credit  
Prerequisite : Art I, Ceramics  
Fee: $35  
Grade: 10,11,12

This is an advanced course in the art of designing and producing objects made of clay. This course will allow students to achieve a more in depth exploration of specific construction methods and glazing techniques originally covered in Ceramics. Studio practices such as clay mixing and kiln firing will also be covered.

JEWELRY - 347
One semester - 1/2 credit  
Prerequisite: Art I  
Fee: $35  
Grade 10, 11, 12

Students will explore and use the techniques of glass fusing, enameling, fabrication and flame work beads to produce individual pieces of hand-crafted jewelry. Materials for the course include copper, brass, nickel, and silver. Due to the high cost of some jewelry materials, students may need to supplement beyond the art fees.

ADVANCED JEWELRY – 347A
This course requires instructor approval.
One semester - 1/2 credit  
Prerequisite: Art I, Jewelry  
Fee: $35  
Grade 10, 11, 12

In this course students will expand upon skills acquired in Jewelry in the areas of glass fusing, enameling, fabrication, and flamework beads. Additional techniques covered may include wood carved jewelry and lost wax casting. Techniques will be combined in a culminating project.

PAINTING - 275
One semester - 1/2 credit  
Prerequisite: Art I & Drawing  
Fee: $30  
Grade 10, 11, 12

Students will be exposed to a variety of media, such as watercolor, tempera, acrylics and oils. Through this experience students will gain an appreciation and understanding of this discipline.

SCULPTURE - 373
One semester - 1/2 credit  
Prerequisite: none  
Fee: $30  
Grade 9, 10, 11, 12

Emphasis is placed on the four sculptural techniques of addition, subtraction, substitution and manipulation. Students will explore and use a variety of sculptural media, such as wood, clay and stone.

ART IV - 479 /ADVANCED PLACEMENT - 480
Full year- 1 credit  
Prerequisite: Art I, Art II, Art III, and Drawing or with approval of instructor.  
Fee: $50  
Grade 11, 12

This course is designed for the student who plans to pursue a career in the arts. It will stress creativity, technique, personal style portfolio development and expression through 2 & 3-dimensional art. *Students may choose to receive AP credit within this class by completing all AP requirements. Students must decide within the first three weeks of the school year whether or not to pursue the AP track. This must be done in writing and submitted to their counselor to receive honors points.
BUSINESS & COMPUTER TECHNOLOGY

Business & Computer Technology courses are offered at the 9th, 10th, 11th & 12th grade levels to provide:

- A background in fundamentals for the student planning to attend business school or college or to take specialized courses beyond high school.
- Marketable skills for personal use.
- Exploratory courses for the student who needs to determine interest and aptitude in the business area before continuing in an advanced program.

INTRODUCTION TO BUSINESS (College Prep) – 461

One semester: ½ credit

Prerequisite: CP Algebra I or higher (previously or concurrently)

The primary objective of this course is to give students an understanding of basic business principles so students who are interested in pursuing a career in business or obtaining a degree in Business Administration will be ready to enroll in additional business classes such as Accounting and Marketing. Students will begin by learning about the economic systems in various countries, business risks, ethics and competition, types of business ownership and global trade. Students will be asked to come up with a "great idea" for a new business. The rest of the semester will be spent learning business principles and incorporating this knowledge into a business plan for their businesses. Topics covered include: selecting your target market, ethical business operations, corporate social responsibility, global issues that affect businesses, writing a mission statement and goals, SWOT analysis, business management, leadership, and much more!

*Recommended for sophomores.

BUSINESS COMMUNICATIONS (College Prep) - 025

One semester: ½ credit

Prerequisite: None

Students will develop communication skills needed to be successful in the business environment. Course content includes: developing interpersonal, verbal, listening, interview, and telephone skills; social media/technology in the workplace and professional online presence; resume writing; and delivering oral presentations using audio-visual materials.

NOTE: This course does qualify for the FHS required communications course.

PERSONAL FINANCE - 158

One semester – ½ credit

Prerequisite: None

This program is designed to introduce students to the foundations of using personal financial planning techniques. Students will explore the steps in the financial planning process, the relationship between career planning and financial fulfillment, and ways to assess their financial situation. Students will explore goals, careers, budgeting, checking and savings accounts, consumer spending, credit, insurance, loans and investment procedures. This program will also describe a wide range of services that will help students plan, manage, and save money. Students will also gain knowledge in Microsoft Excel and the options they have in using this program.

ACCOUNTING I (College Prep) – 258

One Semester - ½ credit

Suggested Companion Course: Accounting II 358

Students will learn about accounting careers, terminology, and understand accounting concepts, principles, and practices. Students will learn to analyze, journalize, and post transactions to ledgers, record adjusting and closing entries, and prepare financial statements for a proprietorship both manually and using Aplia and Excel. The course is designed to serve as a foundation for those students who plan to study business administration, finance, or accounting in college, as well as prepare those students whose formal education will terminate after the 12th grade for a beginning position in business. The college prep student should take accounting in addition to a higher-level math course.
ACCOUNTING II (College Prep) - 358
One semester - ½ credit
Prerequisite: Accounting I
Fee: None
This course is designed to broaden and deepen the knowledge and skills acquired in Accounting I. Students will apply prior accounting procedures to a partnership and corporation. Students will also prepare payroll records, as well as study accounting for plant assets, depreciation, and uncollectable accounts both manually and using Aplia and Excel. This course is of particular value as a preparation course for students contemplating majoring in business administration, finance, or accounting in college. The college prep student should take accounting in addition to a higher-level math course.

MARKETING PRINCIPLES I – 458
Full year – 1 period per day – 1 credit
Prerequisite: Successful completion of Marketing I
Dues: $20 – DECA
Marketing I is designed to prepare students to develop the skills necessary to be a team player and marketing professional in today’s constantly-changing business world. Marketing students explore economics, pricing, product development, advertising, communication and interpersonal skills, business management, entrepreneurship, and much more. Students have a unique opportunity to participate in DECA, a marketing student association that helps members develop leadership and teamwork skills, a network of marketing contacts, and a desire to serve the community.

MARKETING COMMUNICATIONS II – 459CCP
Full year – 1 period per day – 1 credit
Prerequisite: Successful completion of Marketing Principles I #458 and
and co-enrollment in Marketing Communications II #459CCP
Dues: $20 - DECA
This is a College Credit Plus class. If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

STRATEGIC ENTREPRENEURSHIP- 460
Full year – 1 period per day – 1 credit
Prerequisite: Successful completion of Marketing Principles I #458 and
and co-enrollment in Marketing Communications II #459CCP
Dues: $0
Students will use innovation skills to generate ideas for new products and services, evaluate the feasibility of ideas, and develop a strategy for commercialization. They will use technology to select target markets, profile target customers, define the venture’s mission and create business plans. Students will take initial steps to establish a business. Students will calculate and forecast costs, break-even, and sales. Establishing brand, setting prices, promoting products, and managing customer relationships will be emphasized.

COMPUTER KEYBOARDING - 449
One semester – 1/2 credit
Prerequisite: None
Fee: None
This course is designed for students who wish to develop proficient skills on the computer for personal, business or career use. Using proper technique to learn the touch method of typing is emphasized the first nine weeks, followed by basic word processing and document formatting skills (memos, letters, and MLA reports) the second nine weeks. Computer Keyboarding may be taken for a satisfactory/unsatisfactory (S/U) grade or the standard letter grade. This decision must be made by interim time during the first nine weeks. This course is not available on an audit basis.

DESKTOP PUBLISHING – 115
One Semester - ½ credit
Prerequisite: Computer keyboarding or Encounters w/Tech I
Fee: None
This beginning course is designed to explore the world of graphic design. Technology has opened the door to exciting, accessible new methods of electronic publishing. Students will learn basic design principles and how to make good graphic choices. Emphasis will be on the skills needed to work with desktop publishing software. Typography will be discussed with emphasis on making informed choices about the correct type family and its visual effect on the finished product. Assignments will cover page layout, type, and visuals (line art, computer generated graphics, scanned images, and photography). Students will produce 8½” x 11” pages containing their own writing and occasional supplied graphics. This course is not available on an audit basis.
ENCOUNTERS WITH TECHNOLOGY I – 451 ET
One semester – 1/2 credit  
Grade 9, 10, 11, 12  
Suggested Prerequisite: Computer Keyboarding  
Fee: None  
This emerging computer technology program offers unique experiences with technology and a chance to step into the future. A state-of-the-art technology curriculum complements students’ core academic requirements. Students utilize computers and the latest technologies to develop higher level thinking skills, critical research and study skills, communication skills, and problem solving skills. Course offerings include computer applications (Microsoft Office—Word, Excel, and PowerPoint—using Windows 365); information literacy (search strategies and web site evaluation); collaboration and communication (email, messaging, and online collaboration space), and digital citizenship (safety & security, ethics, plagiarism. This course is not available on an audit basis.

ADAPTIVE ENCOUNTERS WITH TECHNOLOGY - 451A ET  
Full year- 1 credit  
Grade 9, 10, 11, 12  
Prerequisite: Teacher and Counselor recommendation  
This emerging technology program has been modified to fit the needs of students with disabilities that cannot successfully access the general education curriculum. This program offers unique experiences with technology and a chance to step into the future. A state-of-the-art technology curriculum complements students’ core academic requirements. Students utilize computers and the latest technologies to develop higher level thinking skills, research and study skills, communication skills, and problem solving skills. Course offerings include computer applications (Microsoft Office- Word, Excel, and PowerPoint- using windows LIVE) information literacy (search strategies and web site evaluation; collaboration and communication (email, messaging, and online collaboration space), and digital citizenship (safety & security, ethics, plagiarism.)

BASIC ENCOUNTERS WITH TECHNOLOGY I – 451B ET  
One semester – 1/2 credit  
Grade 9, 10, 11, 12  
Suggested Prerequisite: Computer Keyboarding  
Fee: None  
Prerequisite: Teacher and Counselor recommendation  
This emerging computer technology program has been modified to fit the needs of students who may not have successfully accessed the college prep curriculum. This program offers unique experiences with technology and a chance to step into the future. A state-of-the-art technology curriculum complements students’ core academic requirements. Students utilize computers and the latest technologies to develop higher level thinking skills, research and study skills, communication skills, and problem solving skills. Course offerings include computer applications (Microsoft Office—Word, Excel, and PowerPoint—using windows 365); information literacy (search strategies and web site evaluation); collaboration and communication (email, messaging, and online collaboration space), and digital citizenship (safety & security, ethics, plagiarism.).

***ET***Classes marked with ET (Emerging Technologies) fulfills the emerging technology credit.

ENCOUNTERS WITH TECHNOLOGY II – 250 ET  
One semester - 1/2 credit  
Grade 9, 10, 11, 12  
Prerequisite: Encounters with Technology I - 451  
Fee: None  
This course may be taken for one college credit through Owens Community College. Students must earn an A or B in both Encounters I and II to receive this credit. This course is designed for students who wish to further develop proficient skills for personal, college, or business use utilizing the computer as a productivity tool, communication tool, research tool, and problem-solving/decision-making tool. Advanced techniques will be emphasized in the class and will include each of the following areas of computer technology: advanced word processing, database, advanced spreadsheet, and advanced presentation. This class is not available on an audit basis.

MULTIMEDIA APPLICATIONS – 450 ET  
One semester - 1/2 credit  
Grade 10, 11, 12  
Prerequisite: None  
Fee: None  
This program is designed to introduce students to the world of media production by utilizing computer systems and peripherals to design, create, and produce both print and digital media. Students will experience photo editing, vector graphic creation, desktop publishing, and video production. Students will complete projects, both teacher requested and student selected, using a variety of techniques to obtain either print or digital products.

***ET***Classes marked with ET (Emerging Technologies) fulfills the emerging technology credit.
INTRODUCTION TO PROGRAMMING CONCEPTS I – 552 ET

One semester - ½ credit

Prerequisite: None

Grade 9, 10, 11, 12

Fee: None

This course is designed to give students an introduction to the general concepts of programming and programming languages. Students will gain experience in the creation and manipulation of database applications using Microsoft Access, as well as explore proper techniques for planning, developing and managing the development of a program. Students will gain additional skills in the use of programming features of Microsoft Access and Visual Basic for Application.

INTRODUCTION TO PROGRAMMING CONCEPTS II – 553 ET

One semester - ½ credit

Prerequisite: Introduction to Programming Concepts I - 552

Fee: None

Grade 9, 10, 11, 12

This course is designed to give students additional knowledge and concepts of programming and programming languages. Students will continue to use various program and internet languages and explore more advanced techniques of planning, developing and managing the development of programs. Students will enhance their skills in the use of programming features of Microsoft Access, Visual Basic for Application, and other game making programs.

WEB PAGE PRODUCTION I – 499 ET

Full Year – 1 credit

Prerequisite: None

Fee: None

Grade 9, 10

Web Page Production I is a year-long, elective course that provides interested students the chance to create websites. This is a hands-on application course with approximately 30% of the class time being spent on learning content and at least 70% of the time spent using the content to create web-based materials. Students will gain experience in using HTML web development programs, creating and editing images, and creating animations for use on web pages.

WEB PAGE PRODUCTION II – 500 ET

Full year – 1 credit

Prerequisite: Web Page Production I

Fee: None

Grade 10, 11, 12

As a continuation of Web Page Production I, the main purpose of this course is to provide the students the opportunity to create web pages that will be included within the Findlay City Schools websites. Communication, leadership, and mentoring skills will be developed. Students will be given the opportunity and resources to explore advanced techniques in HTML programming, web development programs image creation, editing, and animation.

Juniors or seniors interested in additional training after taking these two classes should apply for the Millstream Programming and Software Development or Interactive Multimedia Program.

GOOGLE FOR EDUCATION – 407 ET

One semester - ½ credit

Prerequisite: None

The purposes of Google for Education is to introduce students to an integrated communication and collaboration solution. The collaborative programs include calendar, classroom, contacts, drive, docs, forms, groups, sheets, sites, slides, and vault. Students will explore projects based on collaboration and communication. Cloud-based document solutions will also be explored.

MICROSOFT OFFICE SPECIALIST – 408 ET

One semester - ½ credit

Prerequisite: None

A MOS Certified student is a student who has mastered skills in one of the Microsoft Office Programs and has successfully passed an exam in one of the component applications of Microsoft Office. Certification examination is available for Word, Excel, PowerPoint, Access and Outlook. MOS certification is available at the specialist, expert, and master level. Obtaining certification will meet industry-recognized credentials and points needed for graduation.

***ET*** Classes marked with ET (Emerging Technologies) fulfills the emerging technology credit.
CAREER MENTORSHIP PROGRAMS

CAREER MENTORSHIP PROGRAM (Honors)
Seven weeks – ¼ credit
Prerequisite: Applicants considered individually
This course is designed to give students the opportunity to explore a career interest in some depth. Students are placed with a mentor(s) in their expressed field of interest. Students spend a total of 18 hours with their mentor(s) and are responsible for three seminars, a journal, and a final report. All meetings take place outside the regular school day.

TEACHING PROFESSIONS I & II – 471 and 472
2 credits
Prerequisite: Application required - see counselor or Mrs. Tardibuono for details
Grade 11, 12
Fee: $25.00

Are you considering a career in the field of education --- a teacher, a principal, or a guidance counselor? This course will give you the opportunity to explore the many areas of education. You will be introduced to common terminology in the field as well as an introduction to the Praxis Domains, which are required in the university education courses. You will have the opportunity to participate as a student intern (teacher) at four different certification levels (K – 2, 3-6, Special Education, and choice). At your mentor sites, you will be working one on one with students, developing games and learning tools, creating bulletin boards, and begin to write age appropriate lesson plans. This course will also allow you to explore college selection and admittance requirements. You will participate in Future Educators Association competing at a state and national level. It is possible that students will be able to earn College Credit Plus at a post-secondary institution for successful completion of these two courses. This class can be taken for credit during both junior, and senior years, or just the senior year alone. Juniors and seniors will enroll in Course # 471 and #472. Students will earn 2 credits a year.
The Engineering and Industrial Technology Department offers elective courses for students in grades 9-12. These courses are designed for students preparing for two-year, four-year, or professional college programs leading to careers as technicians, technologists, architects, or engineers. Students planning for careers in mathematics and science can benefit tremendously by selecting technology electives during their high school career. We use the latest in computer aided programs and engineering/architectural suite of programs such as AutoCAD and SolidWorks. Students that are interested in a 4 year plan for college/career preparation should review page 6 in the Millstream Course Selection Guide.

**BLUEPRINT READING - 296**

One semester – ½ credit

**Prerequisite:** None

**Fee:** $5

This is an introductory class with a focus on reading and understanding basic engineering drawings, welding symbols, measurements, and an overview of precision measuring instruments. A special emphasis is placed on the use of sketches, diagrams, working drawings and applied mathematics to solve problems encountered in various industrial technologies. This course is strongly recommended for students considering a career-technical program their junior and senior years or those students planning for a career in a technical field such as engineering or architecture.

**INTRODUCTION TO COMPUTER-AIDED DRAFTING (CAD) – 297**

One semester – ½ credit

**Prerequisite:** Blueprint Reading 296

**Fee:** $10

Using the latest industry standard CAD software programs, such as AutoCAD, students will learn to produce fundamental drawings and the basics of computer aided drafting. This class will represent a general overview of CAD principles including: command functions, entity insertion and graphics manipulation. This course is strongly recommended for students considering a career in engineering or a Career-Technical/Tech Prep program their junior and senior years. This is the first class available in either the Engineering or Architectural programs.

**ENGINEERING DRAFTING & DESIGN – 292**

One Year – 1 credit

**Prerequisite:** Intro to CAD 297

**Fee:** $10

Students will begin their study of engineering drafting and design by learning the basic technical drafting and design concepts and principles. This knowledge will provide insight into modern drafting and design as presented through industry and national based standards. Students will learn how to detail working drawings for machinery and mechanical parts. They will learn the rules of dimensioning and tolerances, they will create orthographic, sectional, auxiliary, and pictorial drawings.

Using both board and CAD applications students will learn to solve practical problems and real world project based tasks. Students will first use AutoCAD fundamentals of design drafting which is designed to assist them in learning and developing core knowledge of design/drafting and skill building procedures. The program exercises progress from simple to more complex, propelling students to hands-on skills while promoting creativity.

Once the students have mastered the basic skills of drafting and design they will move on to more advanced principles using industry-leading 3D solid-modeling technology. The context of this portion of the engineering curriculum is creative problem solving and applied math and science. By integrating parametric solid modeling technology into the curriculum students are able to learn 3D design using engineering and analysis concepts.

This course is intended for all levels of students that are interested in going into one of the engineering fields or a career in design/drafting. Topics covered include: mechanical drafting, pre-engineering drafting and design, civil engineering drafting and design and mechanical engineering drafting and design.

**ROBOTICS -- 456**

Availability based on student enrollment

**Full year - 1 period per day- 1 credit**

**Fee:** $ 20.00

**Prerequisites:** On track for graduation and enrolled in or have successfully completed Algebra II

Local companies are in need of employees who can program and interface with industrial robots. In the first semester students will learn how to utilize and program the FANUC robot used by some of these local companies. Denzo and Pegasus robots are also part of the classroom instruction. Students have the opportunity to gain FANUC certification from this training.

The second semester is dedicated to CNC (Computer Numerical Control) programming and implementing student designed programs using a Denford Milling Machine and related software.
ARCHITECTURE DRAFTING & DESIGN – 392
One Year – 1 credit
Prerequisite: Intro to CAD 297 and suggest Blueprint Reading 296
Fee: $10

Students in this discipline learn about drafting and designing residential and commercial structures. In this field, students learn the design process including the initial contact with clients, room planning and creating sets of working drawings, schedules, and details. Realistically, this field requires extensive years of education and work experience before they are considered a true architect. However, in high school, the experience of learning the basics of architecture is invaluable to encourage students to further their education. This is a subject future interior designers, interior decorators, landscape architects and urban planners can benefit from and enjoy.

As students learn the fundamentals of architectural design, they will use the most comprehensive and industry-leading architectural software technology to create their virtual building designs. The curriculum includes an interactive training guide and studio lessons, which provides the students a step-by-step audio/visual lesson.

Once the students have mastered the basic skills of architectural drafting and design they will move on to more advanced principles using industry-leading 3D Building Information Modeling technology. They will use the curriculum to advance their minds to the future of architectural design.

This course is intended for all levels of students that are interested in going into one of the architectural fields or a career in architectural design/drafting. Topics covered include: mechanical drafting, pre-architecture drafting and design, civil engineering drafting and design, 3D- based architectural modeling.

INDUSTRIAL TECHNOLOGY – 294
One Semester – ½ Credit
Prerequisite: None
Fee: $15

This class will introduce students to the four exciting major areas of industrial technology. Students will delve into the basics of transportation, communication, construction and manufacturing. They will learn about concepts in each of these fields while doing hand-on projects to stimulate their interest. The goal of this course is to promote a student’s interest to further their education in technology by taking advanced classes in various career fields, both for post-secondary education and development of essential basic skills and knowledge.

INDUSTRIAL ARTS I- Woodworking – 213
One semester – ½ credit
Prerequisite: None
Fee: $15 plus project costs

In this class, students will develop motor skills and work in a hands-on environment. Students will be exposed to woodworking skills and design principles. Students will become familiar with different materials and processes to complete a woodworking project chosen to match their abilities. Safety will be stressed while learning to operate the various hand and power tools in the woodworking lab.

INDUSTRIAL ARTS II - 199
One semester – ½ credit
Prerequisite: Industrial Arts I
Fee: $15 plus project costs

This is a continuation of Industrial Arts I. Students will execute project plans of their choosing that matches their abilities so they can continue to have skills they develop in Industrial Arts I. A wide variety of tools and equipment will be used. Proper safety techniques will be stressed. This course can be taken more than once for credit.

INDUSTRIAL ARTS – Specialized - 295
One semester – ½ credit
Prerequisite: Recommendation by Specialized Teacher identified by IEP.
Fee: $15 plus project costs

In this class, students will develop motor skills and work in a hands-on environment. Students will be exposed to basic woodworking techniques. Students will become familiar with different materials and processes. Safety will be stressed while learning to operate the various hand and power tools in the woodworking lab. Several projects will be completed during the semester.
ENGLISH

The English curriculum offers opportunities to meet many individual needs. There are three levels offered for freshmen and sophomores and four levels from which students may choose if they are a junior or senior.

Due to the deadline demands that need to be met for the publication of the FHS Course Selection Guide, it is important that students and parents are aware that changes in the curriculum may ensue. In the spring, the curriculum for English classes is routinely updated and revised to meet the testing and skill enhancement of our students. The changes are always presented to the FCS Curriculum Council (CC) and receive approval by both the CC and The Board of Education before implementation. Therefore, the content currently accessible may be “tweaked” before the beginning of the upcoming school year. All Honors/AP students are made aware of any changes in the materials for summer reading before the conclusion of the current school year.

Overall Policies:
• Students must earn four units of credit in English in grades 9 through 12 to meet graduation requirements.
• Students are urged to consult with their guidance counselors and teachers as to what level they should choose.
• All course levels will be noted on grade transcripts.
• English classes must be taken sequentially.
• Students who fail a class are encouraged to take summer school the summer after the course failure.

Advanced Studies: The Honors/AP and CCP courses are offered for those students who meet the required criteria. A separate booklet listing all CCP courses will be available during the second semester and can be attained through an FHS counselor.

College Preparatory: The college preparatory program provides training in college-oriented skills for those planning to attend a college or university.

College/Career Tech: This track is only offered to junior and senior students. College/Career Tech provides a strong program to meet the social and economic demands of living in a modern free society as well as reading and writing strategies for succeeding in two-year colleges and technical schools.

Basic: The basic curriculum provides a program for those experiencing serious deficiencies in English-related skills.

SPECIFIC LEVEL REQUIREMENTS

Honors- 9th
In order to maintain the rigor and integrity of the program, criteria are used to determine eligibility into the FHS Honors/AP track(s). The following data is used to determine placement: 80th percentile in reading on the Terra Nova or other nationally normed tests, grades and teacher recommendations.

If a student does not qualify, he/she is encouraged to set up an appointment with a counselor or administrator AND an FHS H/AP English teacher to set up a time to discuss appropriate placement. Students may be asked to compose an in-class essay. The teacher-selected prompt and grading criteria will be taken from the SAT specifications. Feedback will be shared with the student &/or counselors in an effort to determine the appropriate placement.

Honors- 10th Grade
The above criteria are once again used to determine admittance to the Honors track as well as teacher recommendation and grades.

11th & 12th Grade AP
The above criteria are once again used to determine admittance to the AP track.

College Preparatory
A student in college prep should have earned between 24 – 79th percentile in reading on the 8th grade Terra Nova Test (or other national testing). A college prep student should have earned a passing grade in English during their previous school year.

College/Career Tech
This course is offered for juniors and seniors who have earned a 24 – 79th percentile in reading on the 8th grade Terra Nova Test (or other national testing). A college/career tech prep student should have earned a passing grade in English during their previous school year.
Basic
A student with a 23rd percentile or below in reading and/or writing on the Terra Nova Test (or other national testing) or upon the recommendation of a teacher is recommended for the basic program. For exemptions, please see student handbook for approved process.

A sophomore or junior student in the basic program (after successful completion of a minimum of one year in the program) may choose to take the CP, or College/Career Tech during their junior or senior year with the recommendation from the basic English teacher.

FRESHMAN LEVEL

ENGLISH (HONORS) – 991
Full year – 1 credit
Grade 9
Fee: paperbacks

Prerequisite: In order to maintain the rigor and integrity of the program, 80th percentile in reading on the Terra Nova test or other standardized achievement measure, will be used to determine placement in the FHS Honors track.

This course is designed as preparation for English Honors 10, as well as the junior and senior level AP Language and AP Literature courses. Students will read an extensive list of culturally diverse works ranging from the Ancient Greek era to present day. The course is designed to provide students with advanced skills in literary analysis, critical thinking, and research-based writing.

Students taking this course are REQUIRED to have read A Separate Peace by John Knowles by the first day of school.

COLLEGE PREP ENGLISH 9 - 990
Full year - 1 credit
Grade 9
Fee: $25

Prerequisite: See specific level requirements

This course is designed to open doors to a student’s future. The 9CP curriculum is a comprehensive literacy program that teaches the new Common Core standards and helps students become better readers, better writers, and better thinkers so they are better prepared for college, careers, and beyond. Exposure to rich literature selections with increasing text complexity across genres will build students’ literacy and cultural knowledge, so they become comfortable reading different text structures.

ENGLISH 9 (BASIC) - 114
Full year - 1 credit
Grade 9
Fee: $25

Prerequisite: See specific level requirements

This course is designed to build reading comprehension skills, improve vocabulary acquisition and written composition. The focus of the reading is a survey of genres of literature through the use of novels, short stories and poetry. Students will practice reading skills through oral and silent reading. In writing, the focus will be on paragraphs.
HONORS & ADVANCED PLACEMENT ENGLISH

COLLEGE CREDIT PLUS
There will be CCP English offerings for the 2017-18 school year however, due to administrative circumstances beyond our control, the opportunities have yet to be finalized. In the spring, students will have access to a CCP supplemental packet and be permitted to alter their English course selections, if they so desire.

ENGLISH (HONORS) - 211
Full year - 1 credit Grade 10
Fee: paperbacks

Prerequisite: Successful completion 9H, OR, for newcomers, please see the specific requirements for admittance noted at the beginning of the English section.

This course is designed as preparation for the AP Language and AP Literature courses taken during the junior and senior years. Students will learn to assess literary material in accordance with diction, imagery, details, language, and syntax, in order to better understand how authors develop their individual style. During the school year, students will read and write extensively from seminal works of 20th century literature.

AP ENGLISH 11 (ADVANCED PLACEMENT) - 311
Full year - 1 credit Grade 11
Fee: paperbacks

Prerequisite: Successful completion of Honors English 10, OR, for newcomers, see the specific requirements for admittance noted at the beginning of the English section.

This course offers lovers of literature the same academic rigor with some added features. While it is still the third step in a four-year “Advanced” English program, a more specific aim is to prepare students for the AP Language and Composition test in May. Toward that end, much of the literature studied is non-fiction and a great deal of the writing is devoted to analyzing “rhetorical devices” (a major component of the AP 11 test). Students will be able to take several practice AP tests throughout the year and polish their writing skills/style in general. Because this class is one of the stepping stones toward AP English 12 and the AP Literature 12 test, many classic novels and literary terminology will be studied in depth. Students are REQUIRED to have read two works assigned by the course instructor BEFORE the first day of school. Assessments will take place the first week of school. Students will be notified before the end of the school year and receive the summer reading and writing assignments.

AP ENGLISH 12 (ADVANCED PLACEMENT) - 411
Full year - 1 credit Grade 12
Fee: paperbacks

Prerequisite: AP English 11, OR, for newcomers, see the specific requirements for admittance noted at the beginning of the English section.

Advanced Placement English is designed for the serious, motivated student with high scholastic ability and a vital interest in intellectual pursuit. It is geared to prepare students for the Advanced Placement tests in the spring and, consequently, focuses much of its time upon strengthening the students’ writing and reading skills. Students who take this course should be avid readers and writers; that is, they should be students for whom reading and writing are a daily activity, both in an academic and leisure sense. Students must also have a strong desire to listen to and actively take part in discussions of literature and philosophy. Having the skill to write, speak and think in a unified and coherent manner is necessary, if the student hopes to succeed in this course. Proficiency in grammar, mechanics and spelling is assumed. Students are REQUIRED to have read The Fountainhead BEFORE the first day of school.
COLLEGE PREP ENGLISH

COLLEGE PREP ENGLISH 10 - 212
Full year - 1 credit
Grade 10
**Prerequisite:** College Prep 9 or Honors 9
Fee: $25
Students will read a minimum of four major literary works and a variety of shorter literary pieces. They will also complete numerous paragraphs and major papers in response to American literature from 1920 to present. A research paper, supplemental projects as well as oral presentations and active discussion are the basis for grades. Revising and editing will be the focus for improving writing. It is expected that students practice good study skills and complete all work.

COLLEGE PREP ENGLISH 11 - 346
Full Year - 1 credit
Grade 11
**Prerequisite:** College Prep English 10 or Honors 10
Fee: $25
The focus of this course is American Literature from precolonial to the twentieth century. The history of American writing and literature will be examined through the study of various works both American and world, allowing the students to evaluate their own culture and role in an increasingly global society. Students exiting this course will have utilized college prep level reading, written and oral expression, and research and cooperative learning skills in preparation for their senior year and pursuit of a post-secondary education.

COLLEGE PREP ENGLISH (11) – 346MCC – MILLSTREAM
Full year - 1 credit
Grade 11
**Prerequisite:** College Prep English 9 and 10
Fee: $25
**Co-requisite:** Interactive Multimedia I; Programming and Software Development I; Computer Networking and Support I; Engineering and CAD Technology I or Medical Technology I.
The focus of this course is American Literature from precolonial to the twentieth century. The history of American writing and literature will be examined through the study of various works both American and world, allowing the students to evaluate their own culture and role in an increasingly global society. Students exiting this course will have utilized college prep level reading, written and oral expression, and research and cooperative learning skills in preparation for their senior year and pursuit of a post-secondary education.

COLLEGE PREP ENGLISH 12 - 703
Full year - 1 credit
Grade 12
**Prerequisite:** College Prep English 11 or AP English 11
Fee: $25
This survey course presents a semi-chronological approach to the major works in English literature, while simultaneously integrating critical readings to augment the literature. Additionally, students will engage in various writing pursuits, discussions, and activities to engage the concepts, theories, and literary characteristics introduced in the course.

COLLEGE PREP ENGLISH (12) - 703MCC – MILLSTREAM
Full year - 1 credit
Grade 12
**Prerequisite:** College Prep English 9, 10, 11
Fee: $25
**Co-requisite:** Interactive Multimedia II; Programming and Software Development II or Computer Networking II or Information Support Systems Technology II or Engineering and CAD Technology II or Medical Technology II
This survey course presents a semi-chronological approach to the major works in English literature, while simultaneously integrating critical readings to augment the literature. Additionally, students will engage in various writing pursuits, discussions, and activities to engage the concepts, theories, and literary characteristics introduced in the course.
COLLEGE CAREER TECH ENGLISH

COLLEGE CAREER TECH ENGLISH (11) - 604
Full year – 1 credit
Prerequisite: English 9 and 10
Grade 11
Fee: $25

The focus of this course is to help students open doors to the real world. Students will read a variety of literature with a focus on early to twentieth century American Literature. They will also read a variety of literature with the goal of enhancing their real world experience, do technical and academic writing in order to clarify their understanding of those experiences with their peers, and focus on listening in order to gain an understanding of their peers’ interpretations of those experiences. In addition, students will continue to prepare for tests such as end of year course exams and the ACT, as well as, prepare for future post-secondary option education.

COLLEGE CAREER TECH ENGLISH (12) – 612
Full year- 1 credit
Prerequisite: English 9, 10, and 11
Grade: 12
Fee: $25

This practical English course is designed to bridge the gap between the high school classroom and the kinds of reading and writing students will encounter both in the college classroom and in the workplace. Literature selected for this course is a combination of contemporary and classic works meant to give students a feel for the type of reading they might encounter in college and to encourage them to explore a variety of career options. Writing is centered on the academic format with a focus on analysis. Research is also a required element in this course.
BASIC ENGLISH

ENGLISH (10) - 214
Full year - 1 credit

Prerequisite: Basic English 9 and teacher recommendation

Fee: $25

Grade 10

This course will focus on basic reading, writing skills and OGT preparation. Students will build reading comprehension skills through exercises and discussions following each selection of American Literature, selected novels and informational text. Composition skills will be continued and expanded from the previous year by moving from paragraphs to multi-paragraph essays in academic writing and by studying technical writing.

ENGLISH (11) – 314
Full year - 1 credit

Prerequisite: Basic English 10 and teacher recommendation.

Fee: $25

Grade 11

This course is a study of American literature. Students build reading comprehension through oral and silent reading and discussion following selections. Writing instruction focuses on multi-paragraph essays of description, exposition, comparison, and persuasion.

ENGLISH (12) - 414
Full year - 1 credit

Prerequisite: Basic English 11 and teacher recommendation.

Fee: $25

Grade 12

Various authors and issues are studied through reading essays, plays and novels. Oral discussions, exercises and compositions develop critical thinking skills. Reading and writing skills for living in today's society are emphasized.
COMMUNICATIONS  
(Graduation Requirement)

ESSENTIAL COMMUNICATIONS (College Prep)- 024
One Semester – ½ Credit  
Prerequisite: none  
Grade 9, 10, 11, 12  
Fee: none

This course is designed for students in the college prep track at FHS. Students will explore the communications area through public speaking (informative, persuasive, impromptu), incorporation of audio-visual materials in presentations (specifically Power Point), listening skills, nonverbal and group process through an advertising project. The final exam will combine the elements of writing a resume, participating in a professional interview and preparing a follow-up thank you letter.

BUSINESS COMMUNICATIONS – 025
One semester: ½ Credit  
Prerequisite: None  
Grade 9, 10, 11, 12  
Fee: None

Students will develop communication skills needed to be successful in the business environment. Course content includes: developing interpersonal, verbal, listening, interview, and telephone skills; social media/technology in the workplace and professional online presence; resume writing; and delivering oral presentations using audio-visual materials. This course is designed for students in the Career Tech path at Millstream.

NOTE: Both Communication courses fulfill the FHS graduation requirement.
CREATIVE WRITING - 517
One semester - 1/2 credit
Prerequisite: Completion of a freshman level English course with an A, B or C or teacher recommendation
Fee: none

Creative writing meets the needs of two types of students: First, those who are experienced, talented writers of poetry, short stories or scripts. Second, those students who are not experienced writers, but who are imaginative and would like to find out if they have a talent for writing. Daily writing is fundamental through much of the semester.

LITERACY IN TODAY’S WORLD - 215
Full year - 1 credit
Prerequisite: Teacher/counselor recommendation
Fee: $15

Any eighth grade student who fails reading or scores in the first, second, or third stanine in reading on the Terra Nova Test should take this course in ninth grade.

This course is designed for those students who require additional aid in reading to succeed in basic reading situations. This course will stress survival reading skills such as content reading, novels, newspapers, short stories, magazines and directions. The course will include the development of vocabulary, comprehension, cultural literacy, and study skills.

ESSAY WRITING - 518
One semester - 1/2 credit
Prerequisite: Completion of sophomore level College Prep or Honors English
Fee: paperbacks

This composition class is specifically designed for the college-bound student who wants to improve his/her academic writing skills. Drafts are submitted routinely; revision and proofreading lessons are applied to those drafts. Peer feedback is common. While the course begins with a review of basic development, organization and documentation strategies and ends with proofreading practice, its real value is in the matters of "style" (mature sentences, effective wording) that students typically find challenging.

JOURNALISM I - 216
Full year - 1 credit
Prerequisite: none
Fee: none

This is an introductory course intended to give the student a background in a variety of journalism media. The main emphasis will be on developing, reporting, writing, design and photography skills for the Blue & Gold. Areas covered in this comprehensive course include news reporting, editing, lead writing, interviewing and communication skills, sports, review, editorial and feature writing, layout and design, student freedom of the press rights, journalistic responsibility, and computer work including desktop publishing. Writing for the web and creating photo galleries and sound slides will also be covered.

JOURNALISM II – 316
Prerequisite: Journalism I or permission of teacher
Grade 10, 11, 12

JOURNALISM III – 416
Prerequisite: Journalism I, II or permission of teacher
Grade 11, 12

JOURNALISM IV – 516
Prerequisite: Journalism I, II, III or permission of teacher
Grade 12
Fee: none

This is a special laboratory experience course for selected sophomores, juniors, and seniors. Students will serve as staff members, which include staff reporters, photographers, page designers, and possible editors on journalism publications including the publications web site. Acceptance of responsibility and desire to contribute to journalism publications are necessary individual assets. Students will be responsible for all journalism publications, programs and web site. Students will be trained to work with the publisher on word processing, headline composition, and should be knowledgeable on the computer, including desktop publishing. A knowledge and acceptance of good journalistic standards is a necessity. Planned activities include the production of a magazine, sports program, and web site, reporting and representing publications at events relating to the school and community, and publication of the national award winning newspaper the Blue & Gold and web site blueandgoldtoday.org. The class structure is a combination of group discussion and laboratory work, with emphasis on independent thinking and student creativity.
THEATRE ARTS - 036
Full year - 1 credit
Prerequisite: none
Fee: supplies
Grade 9, 10, 11, 12
Theatre Arts is an introduction to the basic elements of acting, directing, technical production, management, and history of theatre. Lecture, discussion, guest artist workshops, reading and written work combine theory and practice in all aspects of theatre. Evaluation is based on class participation, performance, written papers, quizzes and tests. Four major projects, as well as attendance at all three FHS theatrical performances, are required for successful completion of this course.

YEARBOOK I – 100 ET
Semester – 1/2 credit each semester for Yearbook I
Prerequisite: If a student is interested in becoming a staff member, he/she must obtain and complete an application from the advisor and be selected for the yearbook staff. Application information will be relayed through the FHS announcements in the spring. Students can take up to two semesters per school year with Advisor’s permission.
Students will develop and apply skills in writing, graphic designing, publishing, and assist in generating financial support for the yearbook through the sale of advertisements and other areas as approved by the advisor. Students interested in Yearbook I should add this course to their schedule, and then they will be required to go through an application process to gain entry into the course since the total enrollment is limited to approximately 20 students.
This is a College Credit Plus class – Students successfully completing this class may receive advanced college standing by way of articulation or transcript college credit through dual enrollment agreements with select colleges and universities. If you are interested in receiving college credit, your parents should attend Findlay High School meetings to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

YEARBOOK II – 200 ET
Semester - 1/2 credit each semester for Yearbook II
Prerequisites: Yearbook I and must obtain and complete an application from the advisor and be selected for yearbook staff. Application information will be relayed through the FHS announcements in the spring. Students can take up to two semesters per school year with Advisor’s permission.
Students will develop and apply skills in leadership, as well as writing, graphic designing, publishing, and assist in generating financial support for the yearbook through the sale of advertisements and other areas as approved by the advisor. Students interested in Yearbook II should add this course to their schedule, and then they will be required to go through an application process to gain entry into the course since the total enrollment is limited to approximately 20 students.

YEARBOOK III – 300 ET
Semester - 1/2 credit each semester for Yearbook III
Prerequisite: Yearbook II and must obtain and complete an application from the advisor and be selected for yearbook staff. Application information will be relayed through the FHS announcements in the spring. Students can take up to two semesters per school year with Advisor’s permission.
Students will develop and apply skills in project management, as well as leadership, writing, graphic designing, publishing, and assist in generating financial support for the yearbook through the sale of advertisements and other areas as approved by the advisor. Students interested in Yearbook III should add this course to their schedule, and then they will be required to go through an application process to gain entry into the course since the total enrollment is limited to approximately 20 students.

***ET*** Classes marked with ET (Emerging Technologies) fulfills the emerging technology credit.
FAMILY AND CONSUMER SCIENCES

SKILLS FOR LIFE I & II (HOME ECONOMICS) – 594 and 597
Full year – one credit
Co-requisite: Students must take 594 and 597
Fee: $15 + supplies
Grade 9, 10, 11, 12
Are you ready to move out and be on your own? Go to college? Do you know how to maintain a healthy lifestyle? Create and maintain a budget? Rent an apartment? Dress professionally? In this course, you will learn how to make wise decisions, maintain a healthy living environment, make clothing decisions, plan and prepare meals and snacks, and how to develop successful interpersonal relationships. Special activities and projects, group work, and lab activities will give you the experiences to practice these important life skills.

ON YOUR OWN (LIFE PLANNING) - 596
Semester class – ½ credit
Prerequisite: None
Fee: none
Grade 10, 11, 12
On Your Own will give you the blueprint you will need for your individual needs and goals based on your personal strengths and interests. This course investigates taking personal responsibility for your life choices by developing strategies for career planning, building and maintaining constructive interpersonal relationships, maintaining a healthy lifestyle, and establishing a plan using your resources (such as budgets, banking, credit, apartment life and purchasing a vehicle). Class experiences may include field trips and lab experiences.

CHILD DEVELOPMENT - 595
One semester – ½ credit
Prerequisite: None
Fee: $5
Grade 10, 11, 12
Do you like children? In this class students will learn about how children develop emotionally, physically, intellectually, and socially. You will learn how to develop adult/parent/child relationships, how to use guidance and discipline to promote self-discipline, self-esteem and social behavior in children. This class would be advantageous for those considering a career in teaching, social work, pediatrics or psychology. Class experiences include labs, field trips, and guest speakers. Every Friday is activity day where you participate in activities that would be appropriate for 3-5 year olds like painting or playing with the parachute. You will also have the opportunity to work with preschoolers in a nursery school setting.

INTERIOR DESIGN, FURNISHINGS AND MANAGEMENT - 593
Semester Class - ½ credit
Prerequisite: None
Fee: none
Grade 10, 11, 12
Do you love decorating rooms and arranging furniture? Are you interested in different types of housing styles? Then this course is for you. In this course students will examine design principles and elements used in housing interiors. Students will make interior spaces functional, safe, and beautiful by determining space requirements and selecting decorative items, such as colors, lighting, flooring, furnishing and materials. Students will be introduced to 2-D and 3-D CAD programs as well as ¼’ scale floorplans. The culminating project will be to decorate an entire home, top to bottom, using your creative flair.

FOODS AND NUTRITION: GLOBAL FOODS - 591
One semester – ½ credit
Prerequisite: None
Fee: $15.00
Grade 11, 12
Do you like to cook, or want to learn how to cook? This unique experience introduces the student to study of nutrition and food preparation with an emphasis on great tasting meals. The course will study the nutritional needs of the family, cooking techniques, and recipe selection for meal preparation ease. Also included will be topics on presentation of food products, manners, garnishing, outdoor grilling and foreign/ethnic foods. Class includes lab experiences. Additional opportunities include competition in the Hancock County Fair.
HEALTHY FOODS - 589
One semester – ½ credit  
Grade 10, 11, 12  
Prerequisite: None  
Fee: $15.00

Looking good, feeling great, and performing your best are all directly related to the food you eat. This unique hands-on course will include food fitness, nutrition, healthy food selection, weight control, diet and food preparation, such as snacks, quick/easy meals, and sports nutrition. You will learn how your nutritional selections affect your health and performance. You will realize the need to adopt healthful eating patterns as a permanent life-style choice. Food preparation labs will focus on foods that are nutrient dense, budget friendly, and appetizing for people of all ages.

FASHION DESIGN AND CONSTRUCTION I - 592
One semester - ½ credit  
Grade 9, 10, 11, 12  
Prerequisite: None  
Fee: $10; plus costs of individual materials

Would you like to learn to sew? Considering a career in the fashion industry such as marketing, merchandising, design, or production? Make your way to Project Runway! Does clothing and fashion interest you? Then Fashion Design and Construction is for you. This course will focus on the aspects of creating and constructing your own designs. Learn about the history of fashion and clothing adornment techniques such as beading, crocheting, and knitting. Students in this class have the opportunity to participate in community service projects such as Dress-A-Girl Around the World, Project Linus, and Book Bags for World Service. NO PRIOR SEWING EXPERIENCE NEEDED.

FASHION DESIGN AND CONSTRUCTION II - 590
One semester – ½ credit  
Grade 10, 11, 12  
Prerequisite: Successful completion of Fashion Design I  
Fee: $10 plus costs of Individual materials

Would you like to expand your skills learned in Fashion Design I? This course takes up where you left off. You are required to make two complete garments in this course. You might construct formal wear or possibly a coat! Included is the opportunity to design and produce your own fashion show, showcasing your constructed garments. This class is perfect for anyone considering a career in fashion or someone who just likes to sew. Students in this class have the opportunity to complete community service projects including Dress a Girl Around the World, Baby Layettes for World Service, among others.

WORK AND FAMILY (Specialized)- 598
Semester Class - ½ credit  
Grade 9, 10, 11, 12  
Prerequisite: Recommendation by Specialized Teacher identified by IEP  
Fee: $15

This course will focus on specific areas related to making consumer choices, creating and maintaining a living environment, making and maintaining clothing, planning and preparing food choices and serving nutritious foods. Class experiences included special activities, group work, and lab experiences.

TEACHING PROFESSIONS I & II – 471 and 472
2 credits  
Grade 11, 12  
Prerequisite: Application required - see counselor or Ms. Tardibuono for details  
Fee: $25.00

Are you considering a career in the field of education --- a teacher, a principal, or a guidance counselor? This course will give you the opportunity to explore the many areas of education. You will be introduced to common terminology in the field as well as an introduction to the Praxis Domains, which are required in the university education courses. You will have the opportunity to participate as a student intern (teacher) at four different certification levels (K – 2, 3-6, Special Education, and choice). At your mentor sites, you will be working one on one with students, developing games and learning tools, creating bulletin boards, and begin to write age appropriate lesson plans. This course will also allow you to explore college selection and admittance requirements. You will participate in Future Educators Association competing at a state and national level. It is possible that students will be able to earn College Credit Plus at a post-secondary institution for successful completion of these two courses. This class can be taken for credit during both junior, and senior years, or just the senior year alone. Juniors and seniors will enroll in Course # 471 and #472. Students will earn 2 credits a year.
Communication among nations and people is vital in today's world. Knowledge of a foreign language has become a marketable skill and asset. Through foreign language study, one develops an appreciation for the varied cultures of the world and perhaps even a better understanding of different cultures within the American society. Students are thus encouraged to register for any one or several of the following courses which are offered. The study of foreign language is open to any student.

### FRENCH

#### FRENCH I - 182
Full year - 1 credit  
**Prerequisite: Strongly recommended grade of C or higher in English**  
Fee: Workbook  
Grade 9, 10, 11, 12

French I introduces students to the pronunciation and intonation patterns, the basic grammatical structures, and vocabulary of the language. Students will begin to develop elementary listening, speaking, reading, and writing skills. Students will also study and experience French culture. This course is taught at a college preparatory level and intended for college prep students.

#### FRENCH II - 282
Full year - 1 credit  
**Prerequisite: French I**  
Fee: Workbook  
Grade 10, 11, 12

French II opens with a systematic review of the Level I work. While the emphasis in Level I is on the sound of the language, basic grammar, and the listening and speaking skills, Level II concentrates on syntax, more advanced grammar, the expansion of vocabulary, and the reading and writing skills. Communication is stressed along with cross-cultural understanding. The class will be conducted primarily in the target language.

#### FRENCH III - 382
Full year - 1 credit  
**Prerequisite: French II**  
Fee: Workbook  
Grade 11, 12

French III is designed to provide the student with greater facility in all the language skills. The course includes the study and review of grammar, increasing vocabulary and more advanced writing and reading skills. In the third level, oral communication and listening skills are emphasized. The class will be conducted primarily in the target language.

#### FRENCH IV - 482
Full year - 1 credit  
**Prerequisite: French III**  
Fee: Workbook  
Grade 12

French IV, students continue to refine their communication skills. Through vocabulary and grammar review, students apply what they have learned in a variety of speaking, listening, reading and writing activities. Extensive use of authentic reading, listening, and visual materials encourages students to communicate in French in real life situations. This class will be conducted primarily in the target language.

#### FRENCH IV (ADVANCED PLACEMENT) – 782
Full Year - 1 credit  
**Prerequisite: French III**  
Fee: Workbook  
Grade 12

In Advanced Placement French IV, students will prepare for the Advanced Placement Language test. Although the Advanced Placement Test is not required, students are strongly encouraged to take the test. The course is designed for the highly motivated French student who wishes to attain a higher level of proficiency in comprehending, speaking, reading and writing the language. Students should have a strong desire to develop their fluency in French and a willingness to devote the necessary time for study.
LATIN

LATIN I - 181
Full year - 1 credit
Prerequisite: Strongly recommended grade of C or higher in English
Fee: Workbook
Grade 9, 10, 11, 12
Latin I introduces students to the pronunciation and intonation patterns, the basic grammatical structures, and vocabulary of the language. Students will begin to develop elementary listening, speaking, reading, and writing skills. Students will also study and experience facets of Roman life and culture. This course is taught at a college preparatory level and intended for college prep students.

LATIN II - 281
Full year - 1 credit
Prerequisite: Latin I
Fee: Workbook
Grade 10, 11, 12
Strongly recommended - Grade of C or higher in Latin I
Latin II opens with a systematic review of the Level I work. While the emphasis in Level I is on the sound of the language, basic grammar, and the listening and speaking skills. Level II concentrates on syntax, more advanced grammar, the expansion of vocabulary, and the reading and writing skills. Mythology is studied more in depth along with cross-cultural information.

LATIN III - 381
Full year - 1 credit
Prerequisite: Latin II
Fee: Workbook
Grade 11, 12
Strongly recommended - Grade of C or higher in Latin II
This course will begin with a review of basic Latin grammar. The students will also do some investigation into Roman culture, religion, and political and social institutions. The emphasis in this course is on prose style. Translation from Latin to English and from English to Latin will be emphasized. Selections from Ovid may be included as a transition into poetry.

LATIN III/IV - 481
Full Year - 1 credit
Prerequisite: Latin II, III
Fee: Workbook
Grade 11, 12
Strongly recommended: Grade of B or higher in previous language study
Students will be reading literature: poetry from Vergil’s Aeneid and prose from Julius Caesar. The course is designed for the highly motivated Latin student who wishes to attain a higher level of proficiency in comprehending, speaking, reading and writing the language. Students should have a strong desire to develop their fluency in Latin and a willingness to devote the necessary time for study.

LATIN III/IV (ADVANCED PLACEMENT) - 781
Full Year - 1 credit
Prerequisite: Latin II, III
Fee: Workbook
Grade 11, 12
Strongly recommended: Grade of B or higher in previous language study
In Advanced Placement Latin 781, students will prepare for the Advanced Placement Latin test. The students will read poetry from Vergil's Aeneid and prose taken from works by Julius Caesar. They will be asked to read some in translation. Although the Advanced Placement Test is not required, students are strongly encouraged to take the test. The course is designed for the highly motivated Latin student who wishes to attain a higher level of proficiency in comprehending, speaking, reading and writing the language. Students should have a strong desire to develop their fluency in Latin and a willingness to devote the necessary time for study.
SPANISH

SPANISH I - 183
Full year - 1 credit
Prerequisite: Strongly recommended grade of C or higher in English
Fee: Workbook
Grade 9, 10, 11, 12
Spanish I introduces students to the pronunciation and intonation patterns, the basic grammatical structures, and vocabulary of the language. Students will begin to develop elementary listening, speaking, reading, and writing skills. Students will also study and experience Spanish culture. This course is taught at a college preparatory level and intended for college prep students.

SPANISH II - 283
Full year - 1 credit
Prerequisite: Spanish I
Fee: Workbook
Grade 9, 10, 11, 12
Strongly recommended - Grade of C or higher in Spanish I
Spanish II opens with a systematic review of the Level I work. While the emphasis in Level I is on the sound of the language, basic grammar, and the listening and speaking skills, Level II concentrates on syntax, more advanced grammar, the expansion of vocabulary, and the reading and writing skills. Communication is stressed along with cross-cultural understanding.

SPANISH II (HONORS)- 285
Full year - 1 credit
Prerequisite: Spanish I and teacher recommendation
Fee: Workbook
Grade 9, 10, 11, 12
Strongly recommended - Grade of B or higher in Spanish I
Spanish II Honors opens with a brief review of the Level I work. Level II Honors concentrates on syntax, more advanced grammar, the expansion of vocabulary, and focuses specifically on reading, writing, and speaking skills at an accelerated pace. Communication is stressed along with cross-cultural understanding. This course is the first step in the Honors Spanish track.

SPANISH III - 383
Full year - 1 credit
Prerequisite: Spanish II
Fee: Workbook
Grade 10, 11, 12
Strongly recommended - Grade of B or higher in Spanish II
Spanish III is designed to provide the student with greater facility in all the language skills. The course includes the study of cultures where the language is spoken and the study and review of grammar. In the third level, oral communication and listening skills are emphasized. The class will be conducted primarily in the target language.

SPANISH III (HONORS) - 385
Full year - 1 credit
Prerequisite: Spanish II
Fee: Workbook
Grade 10, 11, 12
Strongly recommended - Grade of B or higher in Spanish II
In the Honors Spanish III course, there is an accelerated presentation of vocabulary and grammatical topics with an emphasis on active communication. Instruction will be geared toward the higher level skills required to demonstrate fluency, with the goal of taking the Advanced Placement test. The class will be conducted primarily in the target language.

SPANISH IV - 483
Full year - 1 credit
Prerequisite: Spanish III
Fee: Workbook
Grade 11, 12
Strongly recommended - Grade of C or higher in Spanish III
In Spanish IV, students continue to refine their communication skills. Through vocabulary and grammar review, students apply what they have learned in a variety of speaking, listening, reading and writing activities. Extensive use of authentic reading, listening, and visual materials encourages students to communicate in the language in real life situations. This class will be conducted primarily in the target language.
SPANISH IV (HONORS) - 883
Full year - 1 credit
Prerequisite: Spanish III
Strongly recommended - Grade of B or higher in Spanish III H
In Spanish IV Honors, students continue to refine their communication skills, with an emphasis on pre-AP activities. Students apply what they have learned in a variety of speaking, listening, reading and writing activities that are geared to develop fluency and higher level communication skills with the goal of taking the Advanced Placement Test. Extensive use of authentic reading, listening, and visual materials encourages students to communicate in the language in real life situations. This class will be conducted primarily in the target language.

ADVANCED PLACEMENT SPANISH - 783
Full Year - 1 credit
Prerequisite: Spanish III, IV
Strongly recommended: Grade of B or higher in previous language study
In Advanced Placement Spanish IV, students will prepare for the Advanced Placement Language test. Although the Advanced Placement Test is not required, students are strongly encouraged to take the test. The course is designed for the highly motivated Spanish student who wishes to attain a higher level of proficiency in comprehending, speaking, reading and writing the language. Students should have a strong desire to develop their fluency in Spanish and a willingness to devote the necessary time for study. This class will be conducted primarily in the target language.
MATHEMATICS
HONORS & ADVANCED PLACEMENT MATH

Credit cannot be earned for completing a lower level of a given math class after having earned credit for a higher level of the same class. The classes below are listed in order from highest to lowest in each subject area. Example: A student that received credit for CP Algebra 1 cannot receive credit for Practical Algebra 1.

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COLLEGE CREDIT PLUS
There MAY (can we make this change, because we do not offer CCP Math) be CCP Math offerings for the 2016-17 school year, however, due to administrative circumstances beyond our control, the opportunities have yet to be finalized. In the spring, students will have access to a CCP supplemental packet and be permitted to alter their Math course selections, if they so desire.

ALGEBRA I (HONORS) – 047
Full year - 1 credit
Prerequisite: Completed 8th grade math with an "A" average and with teacher recommendation and Terra Nova math score should be 82% or above.
Fee: None
Students will work with functions including solving, graphing, analyzing and solving problems using algebraic equations and inequalities. They will work with linear functions, systems of linear functions, exponential functions and quadratic functions. Students will explore algebraic reasoning and concepts. They will also focus on systems of equations, linear inequalities, quadratics, polynomial operations, exponents and radicals. Students will be introduced to the TI 83/84 graphing calculator. The purchase of a TI-83/84+ is recommended.

ALGEBRA II (HONORS) - 041
Full year - 1 credit
Prerequisite: B or higher in Honors Algebra 1
Fee: none
This freshman course is recommended for the student planning to take honors math courses in high school. The student will apply algebraic concepts in the study of patterns, relations, and functions. Topics from Algebra I that are studied in more depth include linear equations, systems of equations, graphing linear functions, polynomial operations, exponents, and irrational numbers. Other topics covered include matrices, quadratics, sequences and series, complex numbers, and data analysis. The purchase of a TI-83/84+ is recommended.

GEOMETRY (HONORS) - 241
Full year - 1 credit
Prerequisite: C or better in Algebra II Honors or an A in Algebra I
Fee: $2.50
Refer to Geometry 242. Honors Geometry is a course designed for the mathematically talented student seeking a more in-depth approach. The pace is faster and the scope of the course is wider with more experience with solid figures. Problem solving will be on a more challenging level and a more rigorous approach to formal proof will be employed. Upon completion of the course, the student should have a clear understanding of how a mathematical system is developed. This course is recommended for students who plan to take Pre-Calculus.
ALGEBRA II (HONORS) - 041
Full year - 1 credit
Grade 11
Prerequisite: B or higher in both CP Algebra I and CP Geometry
Fee: none
The student will apply algebraic concepts in the study of patterns, relations, and functions. Topics from Algebra I that are studied in more depth include linear equations, systems of equations, graphing linear functions, polynomial operations, exponents, and irrational numbers. Other topics covered include matrices, quadratics, sequences and series, conic sections, complex numbers, and data analysis. The purchase of a TI-83/84+ is recommended.

PRE-CALCULUS (HONORS) - 341
Full year - 1 credit
Grade 10, 11, 12
Prerequisite: B or higher in Algebra II Honors and Geometry Honors, or Algebra III or A in CP Algebra II with teacher recommendation
Fee: none
This course is designed for the highly motivated student who has a strong background in both algebra and geometry and who intends to take calculus. Students will explore, graph and solve problems with algebraic, trigonometric, exponential and logarithmic functions and study conic sections. Additional advanced algebraic topics will be addressed. Scientific and graphing calculators will be used as problem solving tools. The purchase of a TI-83/84+ is strongly recommended.

CALCULUS HONORS - 441
Full year - 1 credit
Grade 11, 12
Prerequisite: B or higher in Pre-Calculus Honors
Fee: none
This course is recommended for college bound advanced math students planning studies in the physical sciences (chemistry, physics, engineering, etc.) and in the field of mathematics. This course will prepare students for success in college calculus. Students are expected to own a graphing calculator. The TI-83/84+ is recommended.

CALCULUS AB (ADVANCED PLACEMENT) - 440
Full year - 1 credit
Grade 11, 12
Prerequisite: A or higher in Pre-Calculus Honors or B or higher in Calculus Honors
Fee: none
AP Calculus is for the student who has a strong interest in math and science and who has successfully completed the honors track in math. The course is of a demanding fast pace and rigor (about twice the pace of Honors Calculus). The student is expected to take the AP-exam in early May and is expected to be proficient with a graphing calculator. Students are expected to own a graphing calculator (TI 83-84+ recommended). AP Calculus will cover all Honors Calculus topics, plus additional topics.

AP STATISTICS – 445
Full Year – 1 credit
Grade 10, 11, 12
Prerequisite: B or higher in Algebra II Honors or CP Algebra II with teacher recommendation
Fee: none
AP Statistics is offered to highly motivated students wishing to earn college credit in an introductory college level statistics course. The course is designed to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. AP Statistics is an excellent option for any student who has successfully completed Algebra II. Since the course depends heavily on technology, a graphing calculator (TI-83/84+) is very strongly recommended. In taking AP Statistics, an expectation of the course is each student will take the AP examination at year end.
COLLEGE PREP MATH

ALGEBRA I (COLLEGE PREP) - 042
Full year - 1 credit
Prerequisite: 8th grade math passed with a "C" average and teacher recommendation.
Fee: none

| Grade 9, 10, 11, 12 |

Students will work extensively with linear equations including solving, graphing, analyzing and solving practical problems. The language and notation for functions will be used. Students will also explore systems of equations and quadratic equations. Other topics will include polynomial operations, factoring, exponents and radicals.

ALGEBRA II (COLLEGE PREP) - 343
Full year - 1 credit
Prerequisite: C or higher in CP Algebra I and CP Geometry, or teacher recommendation from Practical Algebra II
Fee: none

| Grade 11, 12 |

This course emphasizes the understanding and application of algebraic concepts. The student taking Algebra II should have a grasp of Algebra I concepts and skills involving linear equations, systems of equations, graphing linear functions, polynomial operations, exponents and radicals. Additional work will be done with linear and quadratic equations, complex numbers, exponents, logarithms, etc. The purchase of a TI 83/84+ calculator is recommended.

ALGEBRA III (COLLEGE PREP) 340
Full year - 1 credit
Prerequisite: C or higher in College Prep Algebra 2 or Honors Algebra II or teacher recommendation from Practical Algebra II
Fee: none

| Grade 10, 11, 12 |

Students from Practical Algebra II should not take this course.

This course emphasizes the fundamental topics of Algebra II with further depth and will continue with some concepts taught in Trigonometry and Pre-Calculus. The student taking Algebra III should already be proficient in Algebra I and Algebra II. The intent of this course is to strengthen algebra skills before moving on to more comprehensive courses such as Honors Pre-Calculus. The purchase of a TI 83/84+ graphing calculator is highly recommended.

PRE-CALCULUS (COLLEGE PREP) 342
Full year - 1 credit
Prerequisite: C or higher in Algebra II CP or Honors and Geometry CP or Honors, or Algebra III
Fee: none

| Grade 11, 12 |

This course is designed for the motivated student who has successfully completed both algebra and geometry and who intends to pursue higher education. Students will explore, graph, and solve problems with algebraic, trigonometric, exponential, and logarithmic functions and study conic sections. Scientific and graphing calculators will be used as problem solving tools. The purchase of a TI-83/84 + is recommended.

GEOMETRY (COLLEGE PREP) – 242
Full year - 1 credit
Prerequisite: C or higher in College Prep Algebra I
Fee: none

| Grade 10, 11, 12 |

In this course, the students will organize their observations about the properties and relationships of two and three-dimensional figures into a logical thought system. The students will prove geometric relationships using a variety of methods. Compass and straightedge constructions will be explored. Students must combine good memorization skills with logical thinking in order to be successful in problem solving. Good study habits including study time spent outside class are necessary for success. This course is necessary to help prepare for the AIR Test.
ACT/SAT MATH PREPARATION (COLLEGE PREP) – 049
One Semester – 1/2 credit
Prerequisite: Algebra I - CP, Geometry – CP, Algebra II-CP
Grade 11, 12
Fee: workbook
Not college core preparation (review only) Does not count toward honors diploma
This course is designed for college-bound juniors and seniors who do not expect to major in a math-related field and who have not taken any honors math classes or courses beyond College Prep Algebra II. The semester will focus upon the review and application of algebra and geometry concepts and skills. This will help to prepare the student for final attempts at SAT and ACT tests, as well as individual college entrance and placement exams.

PROBABILITY & STATISTICS (COLLEGE PREP) - 446
One semester- 1/2 credit
Prerequisite: C or higher in Algebra II CP
Grade 10, 11, 12
Fee: none
This course is recommended for college bound students planning studies in the areas of engineering, business, economics, physics, chemistry, biology, sociology, psychology, law or medicine. Students will learn practical uses of probability and statistics in these disciplines, as well as scientific and experimental situations. This course will teach the analysis and correct understanding of data and information, and the ability to predict and forecast trends and events. Students are expected to own a graphing calculator. The TI-84+ is recommended.
PRACTICAL LEVEL MATH

Practical level math classes are designed for students that are not taking honors or college prep level of math.

PRACTICAL ALGEBRA I - 044
Full Year - 1 credit
Prerequisite: 8th Grade Math
Grade 9, 10, 11, 12
Fee: none

Practical Algebra integrates the basic mathematics of the everyday world with algebra concepts and some geometric concepts. The following topics will be stressed: basic operations using decimals, fractions, whole numbers, percent, ratios and proportions; rounding and estimation; charts, tables, and graphs; equivalency, conversions and ordering; order of operations; converting percents, fractions and decimals; solving percent problems; measurement/geometry. Much emphasis will be on making connections with other areas of math, other disciplines, and workplace problem solving activities. Writing skills will be stressed. This course is necessary to help prepare for the AIR test and other standardized tests.

PRACTICAL GEOMETRY - 240
Full Year - 1 credit
Prerequisite: A grade lower than a C in College Prep Algebra I or Practical Algebra
Grade 10, 11, 12
Fee: none

The student will analyze two and three-dimensional figures; recognize properties of figures; draw, construct and make models of figures. Much emphasis will be placed upon measurement, including the use of different units of measures in working to solve segment lengths and angles. Students will prove geometric relationships using a variety of methods. Real life applications of geometric concepts will be explored. Calculators will be employed to solve problems. This course is necessary to help prepare for the AIR test and other standardized tests.

PRACTICAL ALGEBRA II - 344
Full Year - 1 credit
Prerequisite: Practical Algebra I, Practical Geometry or a grade lower than C in CP Algebra I and/or CP Geometry
Grade 11, 12
Fee: none

This class is recommended for students needing to review Algebra skills at a pace that is manageable for students who have passed Practical Algebra I and Practical Geometry. Students will learn skills working with linear equations, systems of equations, graphing linear functions, polynomial operations, exponents, radicals, complex numbers, etc. The purchase of a TI 83/84+ is recommended.

MATHEMATICAL PROBLEM SOLVING - 046
One Semester – 1/2 credit
Prerequisite: Practical Algebra I, Practical Geometry or a grade lower than C in CP Algebra I and/or CP Geometry
Grade 11, 12
Fee: none

Mathematical Problem Solving teaches mathematical reasoning and logical thinking skills by emphasizing that any problem can be solved in many ways. By the end of the course, students will have learned a variety of problem-solving techniques, including: drawing diagrams, matrix logic, physical representations, Venn Diagrams, Algebra and looking for patterns. The course is designed to read and analyze story problems through critical thinking, written communication and oral communication while working in collaborative groups.

MATHEMATICS AND MONEY WITH ALGEBRA - 048
One Semester – 1/2 credit
Prerequisite: Practical Algebra I, Practical Geometry or a grade lower than C in CP Algebra I and/or CP Geometry
Grade 11, 12
Fee: workbook

Not college core preparation (review only) - Does not count toward honors diploma

This course will concentrate upon math applications in real life situations with emphasis on money management. Topics include credit cards, buying or leasing vehicles, mortgage loans, taxes, etc. The final course project will involve preparing a personal budget.
MUSIC

MUSIC, TECHNOLOGY, AND YOU - 078 ET
Full year - 1 credit  Grade 10, 11, 12*
45 students Maximum  Fee: $12 Tech Fee
Music Technology is a course that exposes students to basic music concepts using the MIDI, Digital Audio and Multi-media applications. Sound Systems, MIDI Sequencing Software, PowerPoint, Soundflower, and iMovie are studied. Students will compose and create their own compositions using the classroom software, as well as creating radio commercials, Foley effects, podcasting, and film scoring. The Music Technology classes also produce a school-wide concert called Reverberation.

MUSIC THEORY - 079
Full year - 1 credit  Grade 10, 11, 12
Prerequisite: Permission of Instructor  Fee: $12 Tech Fee
Music Theory studies ear-training, sight-singing, key relationships, keyboard and written harmony, guided listening, music analysis and the history of music.

9th GRADE BAND – 071
Full Year - 1 Credit  Grade 9
Prerequisite: Student must be a qualified player with permission of director. Requires concurrent registration in Marching Band 073
9th Grade Band is open to all 9th grade students and will focus on basic skills such as tone production, rhythm, scales and sight-reading needed for success in the high school program. Students with no previous band experience may start an instrument, but only at the discretion of the director. (Instrument choice will be decided with the director and a practice plan will need to be in place during their 8th grade year to ensure student success). Students will perform a diverse repertoire of pieces from various eras and styles. This ensemble typically performs three concerts per year and performs at OMEA Large Group Adjudicated Events. Band student also have the opportunity to audition for various honors and select ensembles including OMEA District and State Bands, the BGSU honor band and The Ohio State University honor band. Annual participation in Solo and Ensemble Contest is strongly encouraged for all students. During the winter months students will be required to perform with the Pep Band at three sporting events.

BAND – 076
Full Year - 1 Credit  Grade 10, 11, 12
Prerequisite: Student must be a qualified player with permission of director. Requires concurrent registration in Marching Band 073
FHS Concert Bands are performing ensembles open to all students in grades 10 through 12 who play a brass, percussion, or woodwind instrument. Students will perform a diverse repertoire of pieces from various eras and styles. Concert band ensembles typically perform three concerts per season and perform at OMEA Large Group Adjudicated Events. Band student also have the opportunity to audition for various honors and select ensembles including OMEA District and State Bands, the BGSU honor band and The Ohio State University honor band. Annual participation in Solo and Ensemble Contest is strongly encouraged for all students. During the winter months students will be required to perform with the Pep Band at three sporting events.

BAND (HONORS) – 077
Full Year - 1 Credit  Grade 10, 11, 12
Prerequisite: Student must be an advanced player, complete an audition in the spring, and have permission of director. Individualized honors credit plan for the following fall semester must be on file prior to registration.
Requires concurrent registration in Marching Band 073
Registration: Students should register for 076. Once prerequisites are met the Director will change the course number.
Performance-based course challenges students to engage in pre-collegiate level musicianship and critical thinking. Students will be highly analytical about the quality of their music making as well as demonstrate their own accelerated and in-depth study of music through performances and academic projects. Students in the course will be required to participate in both the marching and concert programs described above and will participate in a separate Wind Ensemble (an advanced ensemble, typically with one player per part, striving to accurately represent the timbres, balances and instrumental weights that the composer specified for each composition). Students will work with the director to develop an individualized honors credit plan for each semester which may include private lessons, listening projects, research reports, middle school student mentoring, solo and ensemble participation, and/or honor ensemble participation to receive full credit for this course.
MARCHING BAND – 073  
Grade 9, 10, 11, 12  
1st Semester – 1/2 Credit  
Fee: *see below  
Requires concurrent registration in 9th Grade Band (071), Band (076), or Band (Honors) (077)  
Marching band is a required course for all students registering for a band course at Findlay High School. Those students who are involved in FHS athletics and have minor conflicts with the rehearsal schedule are still required to participate and should discuss options with the director. Major schedule conflicts will be addressed on an individual basis. The Findlay Trojan Marching Band (FTMB) is a “ninth period” course for a grade and credit and rehearses as a full group on Monday and Thursdays after school and may have additional time in sectionals as needed. The FTMB performs at all football games, local parades and may perform at area band festivals or university band days. Due to the fact that each student has a specific spot written for him/her for each show, students will not be permitted to drop the marching band course once the fall semester begins.

*Uniform fees will be assessed for both Marching and Concert Band each year. These fees are assessed through the Findlay Music Boosters. The most current fees uniform fees will be shared with students in the Spring for the following year. All students are required to pay a band activity fee of $40.00 (payable to “Findlay City Schools”). Students using school-owned instruments are required to pay an instrument maintenance fee of $50.00 (payable to “Findlay City Schools”).

JAZZ BAND – 072  
Grade 9, 10, 11, 12  
Full Year – 1 Credit  
Fee: none*  
Prerequisite: concurrent registration in 9th Grade Band (071), Band (076), or Band (Honors) (077)  
Student must be a qualified player with permission of director. Wind and percussion players must be a member of a band course in order to register. Piano, bass, and guitar players are not required to be registered for band, but must be registered for choir or orchestra.

Jazz band is a “ninth period” course which studies and performs jazz literature and styles covering the various time periods of the 1900s. Requirements include all performances and rehearsals outside of the school day, and the possibility of travel to jazz festivals. Class work and student evaluation includes training in large ensemble skills, combos, improvisation, and music theory. Private lessons are encouraged and students may have the opportunity to apply for area honors groups.

*there is no set course fee, but there may be minimal experiences for meals at performances, group shirt, etc.

SYMPHONY ORCHESTRA – 075  
Grade 9, 10, 11, 12  
Full year – 1 Credit  
One period each day  
Fee: *see below  
Prerequisite: All qualified string players without auditions. Other instrumentalists (wind, brass, percussion) may need to audition with the director annually. It is strongly suggested that wind players be members of band and/or taking private lessons. The director will determine the number of players needed for a section.

The Symphony Orchestra is a full orchestra ensemble that emphasizes the study and performance of various forms of orchestral literature. The music repertoire covers a span of over 400 years and includes both serious and popular forms and styles. The orchestra averages five performances per year, including the fall Pops Concert, the All-City Orchestra Festival, and Final Spring Concert. In addition, the orchestra participates in the OMEA State Orchestra Contest each year. Orchestra students have the opportunity to audition for various outside performance groups, including the FHS Chamber Orchestra, Northwest (Ohio) Regional Orchestra, the Lima Symphony Youth Orchestra, and the Toledo Symphony Youth Orchestra.

*Fees: A uniform fee will be assessed for orchestra each year. This fee is assessed through the Findlay Music Boosters. The most current fees uniform fee can be found at www.findlaymusicboosters.org (select “Uniforms.”) All students are asked to pay an orchestra fee of $15.00 made payable to the “Findlay City Schools.” Students using school-owned instruments are requested to pay a yearly general maintenance fee of $50.00 (payable to “Findlay City Schools.”)

SYMPHONY ORCHESTRA (HONORS) - 074  
Grade 10, 11, 12  
Fee: See above  
Prerequisite: Student must be an advanced string player, complete an audition in the spring, and have the permission of the director. Individualized honors credit plan for the following fall semester must be on file prior to registration. Student should register for Orchestra 075 and the Director will change the course number.

Honors orchestra is designed for string players who want to advance their technical proficiency, develop their musical artistry, or give back to the community. Honors orchestra students engage in additional performances, mentoring, studio work, reflection and critical thinking outside of the traditional orchestra classroom. They participate in orchestra class and complete an honors project each semester under the guidance of the orchestra director.
CHORAL ACTIVITIES:
All ensembles in the choral activities program teach the following disciplines:

- Singing fundamentals (proper breathing, posture, tonal production, diction)
- Choral literature (musical era and style)
- Musical sensitivity (phrasing, interpretation)
- Personal discipline necessary to function in a large ensemble.

Any member of Concert or Symphonic choir is eligible for and encouraged to audition for "First Edition" (Show Choir). Members of the freshman choir are encouraged to audition for V.I.P. (Freshman Show Choir). Members of all choral ensembles are encouraged to audition for the annual musical production presented jointly with the drama department. Small ensemble and/or private instruction is also strongly encouraged.

All choral ensembles participate in Fall, Winter, and Spring Concerts and District/State Contest. Additional concerts may be scheduled for select choirs. Attendance at concerts is a requirement.

(A three-day/week choir option may be chosen, if absolutely necessary, for 1/2 credit with the Director’s permission.)

NINTH GRADE CHOIR - 935
Full year - 1 Credit
Prerequisite: Recommendation of your current vocal music instructor.
Fee: $20

CONCERT CHOIR - 271
Full year - 1 Credit
Prerequisite: Recommendation of your current vocal instructor and permission of the director
Fee: $20

SYMPHONIC CHOIR - 371
Full year - 1 Credit
Prerequisite: Audition by and permission of director
Fee: $20
Symphonic Choir represents a higher level of performance. For this reason, members are expected to be registered five days/week when possible. Students may still register for 3 days WITH directors’ permission.
PHYSICAL EDUCATION & HEALTH

*All students must complete their physical education requirement with selections from the following courses (141, 142, 145, 147, 1410, and 1470).
A student **MAY REPEAT** a class to fulfill his/her requirement.

BASIC PHYSICAL EDUCATION - 141
One semester - 1/4 credit
Grade 9, 10, 11, 12
Prerequisite: none        Fee: None

This class involves major physical education philosophies, goals, and strategies for the future health and well-being of the general student population. The class will provide students with the appropriate knowledge, skills, behaviors, and confidence to be physically active for life. The class entails: (a) basic skill levels, (b) low level competition, and (c) would be recreational in nature. The class will contain testing, both written and practical, and possible “lecture time” on health and fitness topics. The class will also consist of games and fitness sessions. Fitness testing may be included. General class focus will be health, wellness, and physical fitness.

PHYSICAL EDUCATION: INDIVIDUAL SPORTS - 142
One semester - 1/4 credit
Grade 9, 10, 11, 12
Prerequisite: none        Fee: none

This class also involves major physical education philosophies, goals, and strategies for the future health and well-being of the general student population. The class will provide students with the appropriate knowledge, skills, behaviors, and confidence to be physically active for life. This class encompasses any sport that is typically done solo or with 2 to 4 people. This class would possibly include, but not be limited to: tennis, archery, badminton, pickle ball, bocce ball, horse shoes, corn hole, golf, table tennis, and fitness activities.

DANCE/GYMNASTICS/SELF DEFENSE - 145
One semester - 1/4 credit
Grade 9, 10, 11, 12
Prerequisite: none        Fee: $15

This class has components dealing with both beginning and intermediate skill levels in Dance and Gymnastics, along with introductory skills for Self-Defense. Students will participate in gymnastics events such as the floor routine, balance beam, vault, and uneven bars. Line dancing, Zumba, Tae Bo, Yoga, and strengthening and flexibility exercises are also incorporated based on student interest and teacher expertise.

BASIC PHYSICAL TRAINING - 147
One semester - 1/4 credit
Grade 9, 10, 11, 12
Prerequisite: none        Fee: $4

This class (beginner level) emphasizes weight training and personal physical fitness, spending 4 - 5 days each week on physical fitness training. Weight lifting, agility workouts, plyometrics, fitness testing and body composition testing are incorporated. Cardiorespiratory endurance activities and games may be incorporated which emphasize a fitness component.

ADVANCED PHYSICAL EDUCATION: TEAM SPORTS AND GAMES - 1410
One semester - 1/4 credit
Grade 10, 11
Prerequisite: Demonstrates advanced team game skills and WRITTEN PERMISSION FROM INSTRUCTOR; may be required to complete “Basic Physical Education” prior to taking the course.

This class emphasizes team games and sports (see Basic Physical Education above) but at a more competitive, structured level for students of higher skill levels. Focus will include emphasis on teamwork, sportsmanship, fair play, and referee skills.

ADVANCED PHYSICAL TRAINING - 1470
One semester - 1/4 credit
Grade 9, 10, 11, 12
Prerequisite: Successful completion of Basic Physical Training (C grade or better)        Fee: $4

This advanced class incorporates more: (a) advanced lifts, (b) individualized goal-oriented programs, and (c) fitness testing and measurements, spending 4-5 days each week on physical fitness training. This class is geared toward the more serious and experienced student who wants to specialize in personal strength development. It could also incorporate agility workouts, plyometrics, Tae Bo (kick boxing) and/or aerobics. Games could be incorporated that emphasize a fitness component.
HEALTH

*All students must complete their Health requirement with the following course.

HEALTH AND WELLNESS - 263
One semester - 1/2 credit
Grade 10
Fee: $5
Prerequisite: none

Health Education is an applied science concerned with the student’s understanding of himself/herself in relation to health issues in a changing society. The emphasis in this semester course is centered on the individual and their understanding of himself/herself, his/her relationship to environment, family and society, focusing on behavior required to achieve a level of well-being that one needs to function at his/her best. It also provides an opportunity for students to develop a concept of health, which will be functional in the future.
SCIENCE

HONORS & ADVANCED PLACEMENT SCIENCE

COLLEGE CREDIT PLUS
There WILL be CCP Science offerings for the 2016-17 school year, however, due to administrative circumstances beyond our control, the opportunities have yet to be finalized. In the spring, students will have access to a CCP supplemental packet and be permitted to alter their Science course selections, if they so desire.

PHYSICAL SCIENCE (HONORS) - 983
Full Year Physical - 1 credit
Grade 9
Fee: $15
Prerequisite: 80th Percentile or above on the Terra Nova Test and Algebra I (can be concurrently)
Students in this course should have a strong interest in science and its mathematical interplay. This course stresses application and interrelationships in the realms of physics and chemistry through inquiry and investigation. This course will cover the physics of forces and motion, electricity, light and waves, thermal and nuclear energy, and principles of chemistry including atomic structure, periodic table, chemical bonds, and solutions. Students will engage in much inquiry, investigation, and will be required to write lab reports.

BIOLOGY I (HONORS) - 234
Full year Biological - 1 credit
Grade 10, 11, 12
Fee $15
Prerequisite: O, A or B in Honors Physical Science or an A in CP physical with teacher recommendation
This two-semester college preparatory lab science is designed to teach students the concepts and principles of biology. This is a challenging course for the student who anticipates a science based career, desires an accelerated, comprehensive program, and intends to take advanced courses in science. Instruction will emphasize laboratory investigations, independent research and analysis. Students will develop a conceptual framework for modern biology and recognize unifying themes that integrate the major topics of biology. Students will learn about the scientific process, molecules and cells, cellular reproduction and genetics, evolution, ecology, and the form and function of animals. Laboratory activities stress the development of important skills such as detailed observation, accurate recording, dissection, experimental design, and data interpretation and analysis. Students will develop critical thinking skills through research and discussions about issues relating to current advancements in biology. Dissections will be a part of this lab science.

BIOLOGY (ADVANCED PLACEMENT) - 309
Full Year Biological - 1 credit
Grade 10, 11, 12
Fee: $20
Prerequisite: Passage of Honors Physical Science with an “A” or higher
In this course students study advanced topics in biology as recommended by the College Entrance Examination Board including: molecules, cells, heredity, evolution, organisms, and populations. In-depth study of topics is reinforced by laboratory work and individual projects. This course is beneficial for students considering science, medicine, or related careers. Students are encouraged to take the Advanced Placement exam in the spring. A summer assignment must be completed prior to beginning this course.
PHYS 2111 and PHYS 2341(LAB) - 432 (HIGH SCHOOL CONCURRENT ENROLLMENT PROGRAM WITH OHIO NORTHERN UNIVERSITY)

Prerequisite: See counselor for advisement.

Course Overview:
This is an algebra based college level physics course in which students receive college credit upon completion of the course (3 Semester Hours Lecture and 1 Semester Hour Lab). Material in this course will be presented and evaluated at the college level.

PHY 2111 - 432:
Fee: $20
The material covered is Introductory Concepts, Kinematics in one Dimension, Kinematics in two Dimensions, Force and Newton's Laws, Work and Energy, Linear Momentum, Collisions, Circular Motion, Gravity, and Rotational Dynamics, Static Equilibrium, Temperature and Heat, Thermodynamics, Vibrations and waves, and Sound followed by a comprehensive final. Similar to most college level science courses, the material covered closely follows the material presented in the standard text. It is assumed that the student will attend lectures, read the text, and be able to solve the problems at the end of each chapter. It should be clear that the course covers a great deal of material in a short amount of lecture time. The laboratory (PHYS 2341) meets during scheduled class time where students work on specific labs encompassing the lecture topics.

CHEMISTRY I (HONORS) - 331
Full year Physical - 1 credit
Grade 10*, 11, 12
Prerequisite: Completion of Algebra II (College Prep) with a B or higher, or completion of Algebra II (Honors) with a C or higher
Fee: $20
This course is designed specifically for students who plan to major in a science-related area. Independent studying and laboratory work will be stressed. Students will be expected to apply reason and logic in solving story-type problems. A good understanding of mathematics and formulas from geometry and algebra are required. Specific dress and behavioral requirements will be enforced to make the chemistry laboratory a safe place to work. *All sophomores must take Biology, but they can also take this course during their sophomore year if they have taken honors physical science, received an A or better and be recommended by the teacher.

CHEMISTRY (ADVANCED PLACEMENT) - 310
Full Year Physical - 1 credit
Grade 11, 12
Fee: $50
Prerequisite: Completion of Chemistry (College Prep or Honors) with a grade of B or higher. Students must have completed Algebra II. Recommendation from previous science teacher.
This course covers the following areas: thermochemistry, periodicity, molecular orbitals, intermolecular forces and interactions, properties of solutions, chemical kinetics, chemical equilibrium, acid and base equilibria, spontaneity, entropy and free energy, spectroscopy, and electrochemistry. A review of concepts covered in the prior chemistry class will be conducted. Experiments reinforce each unit and problem solving is emphasized. Students enrolled in this class are encouraged to take the Advanced Placement exam during the spring. A Texas Instruments graphing calculator is strongly suggested.

AP ENVIRONMENTAL SCIENCE (ADVANCED PLACEMENT) - 237
Full Year Biological – 1 credit
Grade 11, 12
Prerequisite: Biology, Algebra I, and Chemistry I or Advanced Physical Science
Fee: $20
This course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems, to evaluate the risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Laboratory and field investigations are an important part of the course. Topics include: scientific analysis of natural systems, population dynamics, natural resources including air, water, and soil quality, pollution and its impact on ecosystems including human health, global changes and their consequences, and choices for the future.
COLLEGE PREP SCIENCE

PHYSICAL SCIENCE (COLLEGE PREP) – 982
Full Year Physical - 1 credit
Prerequisite: none
Grade 9
Cost: $10
This course will stress the physics of forces and motion, electricity, light and waves, thermal and nuclear energy, and principles of chemistry including atomic structure, periodic table, chemical bonds, and solutions. Students will engage in much inquiry, investigation, and will be required to write lab reports.

BIOLOGY I (COLLEGE PREP) - 232
Full Year Biological - 1 credit
Prerequisite: none
Grade 10, 11, 12
Cost: $10
This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. This course satisfies the content required in preparation for the End of the Year Examination (EOY) testing for graduation points.

ADVANCED PHYSICAL SCIENCE (COLLEGE PREP) - 227
Full Year Physical - 1 credit
Prerequisite: At least one science credit, must have passed Algebra I with at least a "C"
Grade 11, 12
Cost: $20
Advanced Physical Science is a year-long course with one semester of chemistry and one semester of physics. Basic chemistry and physics concepts will be presented, along with their relationships to everyday events and technology. Many lab activities are a vital part of this course. This may be of interest to those students seeking to bridge the gap between chemistry and/or physics. This would provide another lab course for the college bound student planning on a non-science related career, or a student seeking more science, but not at the in-depth level of other physical science courses.

CHEMISTRY I (COLLEGE PREP) - 330
Full year Physical - 1 credit
Prerequisite: Having taken or concurrently taking Algebra II (College Prep or Honors)
Grade 10*, 11, 12
Cost: $20
Students should be able to apply reason and logic in using mathematics to solve practical statement-type problems. Because of the increasing importance of science to everyone, the chemistry program is designed for non-science as well as science students. The principles of chemistry are developed through an experimental approach within the laboratory as well as through independent learning methods. Students will receive a good background in chemistry. A strong math background is essential. Specific dress and behavioral requirements will be enforced to make the chemistry laboratory a safe place to work. *All sophomores must take Biology, but they can also take this course during their sophomore year if the student received an A or better in physical science and is recommended by the teacher.

PHYSICS (COLLEGE PREP) – 431
Full year Physical - 1 credit
Prerequisite: Have taken or concurrently taking Pre-Calculus and/or Calculus /or Trigonometry
Grade 11, 12
Cost: $20
This is a course designed to provide the basic foundations in the understanding of the relations existing between and within matter and energy. The areas studied are motion, forces, momentum and motion, energy, waves, magnetism and electricity. Individual and cooperative team projects assigned throughout the year encourage decision making processes and group interaction. Computer technology for data collection and manipulation will be integrated to support the intensive laboratory sessions conducted throughout the course. A culminating group project is required at the end of the year for course completion.
ANATOMY & PHYSIOLOGY (COLLEGE PREP) - 233
Full year Biological - 1 credit
Prerequisite: a “B” in 9th grade science if taken sophomore year/a “C” in Biology
Grade 10*, 11, 12
Fee: $45
Anatomy & Physiology introduces the student to the study of the human body from an anatomical and physiological standpoint. Topics and body systems covered will include: anatomical terminology, tissues, joints, blood, skeletal system, muscular system, cardiovascular system, respiratory system, digestive system, nervous system, and endocrine system. Emphasis will be placed on the identification and location of parts and how these parts function. Dissection of a cat and other specimens will be included and are required. *All sophomores must take Biology, but they can also take this course during their sophomore year.

Students enrolled in the Medical Technology II program will sign up for Tech Prep Anatomy - 493.

COLLEGE TECH PREP ANATOMY - 493 - MILLSTREAM
Full year – 1 credit
Prerequisite: Biology I & Chemistry
Fee: $45
Co-requisite: Medical Technology II Program
This course will be taken concurrently with the Medical Technology II program to further enhance and relate this knowledge to the medical field. Anatomy & Physiology introduces the student to the study of the human body from an anatomical and physiological standpoint. Topics and body systems covered will include: anatomical terminology, tissues, joints, blood, skeletal system, muscular system, cardiovascular system, respiratory system, digestive system, nervous system, and endocrine system. Emphasis will be placed on the identification and location of parts and how these parts function. Dissection of a cat and other specimens will be included and are required.

ENVIRONMENTAL SCIENCE I (COLLEGE PREP) - 235
Full year Biological - 1 Credit
Prerequisite: Biology I
Fee: $20
This is a course designed to provide the basic understanding of how humans have impacted the earth’s natural systems. The areas studied are population dynamics, interrelatedness, habitat management, resource consumption, energy, air and water pollution, hazardous material management, solid waste management, and environmental ethics. Students will be expected to participate in outdoor studies, environmental stewardship, and handle both live and preserved organisms. Microscopes will be used.
GENERAL LEVEL SCIENCE

INTEGRATED SCIENCE II (GENERAL)-984
Full Year Physical - 1 Credit  Grade 11, 12
Prerequisite: none  Fee: $10
This course is designed for students that need a physical science credit for graduation. Course content will be similar to ninth grade Physical Science, including a variety of topics. Emphasis will be on physical science. Students that have received a credit for ninth grade Integrated Science/Physical Science are not eligible to take this course.

GLOBAL SCIENCE (GENERAL) - 230
Full year Physical/Biological - 1 credit  Grade 11, 12
Prerequisite: At least ninth grade science  Fee: $10
Global Science is a hands-on course that challenges students to make connections amongst the various scientific disciplines while developing their observational, analytical and quantitative skills to better understand the physical world. The course is designed to challenge students with a wide spectrum of practical and theoretical knowledge of the physical and biological sciences and current technological advances. This course combines Earth Science, Life Science, and Physical science in the context of our modern environment to prepare students for the future. Students will be confronted with scientific and social challenges of the 21st Century and will learn useful knowledge to make wise decisions pertaining to these challenges.
SOCIAL STUDIES

Recommended Social Studies Course Sequencing beginning with the 2016-17 School Year

Freshman Year – choose from the following options:
• Basic Modern World History
• CP Modern World History and Historical Thinking and Writing
• Honors World History (this course prepares students for the Advanced Placement track)

Sophomore Year – choose from the following options:
• Basic American History I
• College Prep American History I
• AP American History

Junior Year – choose from the following options:
• Basic American History II
• College Prep American History II
• AP European History- If you took AP US History in the sophomore year

Senior Year – choose from the following options:
• Basic American Government
• College Prep American Political Systems (APS)
• AP Government and Politics

Electives also available are:
• Consumer Economics
• College Prep Economics
• World Cultures
• Psychology
• Sociology
• Applied Social Studies (Student Council)
• Freshmen Transitions (Freshmen Mentorship)
Following chart is currently under review

<table>
<thead>
<tr>
<th></th>
<th>Credits Required</th>
<th>Suggested Sequence</th>
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| **Advanced Placement** | 4                | Grade 9 – Honors World History  
Grade 10 - AP American History (1900 to Present)  
Grade 11 - AP European History  
Grade 12 - AP American Government & Politics |
| **College Prep**      | 4                | Grade 9 – Modern World History  
Grade 10 - American History I (1492 - 1865)  
Grade 11 – American History II (1865 to the Present)  
Grade 12 - American Political Systems (1/2 credit) plus 1/2 credit from one of the following electives: Economics, Psychology, Sociology, or World Cultures |
| **General/Career Tech** | 3                | **Only available to Juniors & Seniors  
Grade 9 – Modern World History (CP or Basic)  
Grade 10 - American History I  
Grade 11 – American History II (CP or Basic)  
Grade 12 – Basic American Government or American Political Systems APS (required) (1/2 credit), and Consumer Economics (1/2 credit) |
| **Basic/Career Tech** | 3                | Grade 9 - Basic Global Studies  
Grade 10 -Basic American History (1492 - 1865)  
Grade 11 - Basic American Government or American Political Systems APS (required) (1/2 credit) & Consumer Economics (1/2 credit) |
MODERN WORLD HISTORY (COLLEGE PREP) - 951 and HISTORICAL THINKING & WRITING - 953

Full year - 1 credit  Grade 9

Prerequisite: Teacher/Counselor Recommendation

Fee: none

Students will study major turning points that shaped the modern world, from the late 18th century through the present, including the cause and course of the two world wars. They will trace the rise of democratic ideas, and develop an understanding of the current historical roots of current world issues, especially those related to international relations. Students will develop an understanding of current world issues and relate them to their historical, geographic, political, economic, and cultural context.

MODERN WORLD HISTORY (BASIC) - 952

Full year - 1 credit  Grade 9

Prerequisite: Teacher/Counselor Recommendation

Fee: none

Students will study major turning points that shaped European society today, they will focus on the late 18th century through the present, surveying the cause and course of the two world wars. They will trace the rise of democratic ideas, and develop an understanding of the current historical roots. Students will also develop an understanding of current world issues and relate them to their historical, social, political, economic patterns.
HONORS AND ADVANCED PLACEMENT SOCIAL STUDIES

COLLEGE CREDIT PLUS
There WILL be CCP History offerings for the 2016-17 school year, however, due to administrative circumstances beyond our control, the opportunities have yet to be finalized. In the spring, students will have access to a CCP supplemental packet and be permitted to alter their History course selections, if they so desire.

HONORS WORLD HISTORY - 950
**While Honors World History is not an AP course, it is recommended for students planning on taking the AP track in grades 10 through 12.
Full year - 1 credit – It is recommended but not required that students taking Honors World History also take
Honors English 9
Prerequisite: Teacher/counselor recommendation and 80 percentile or higher on Terra Nova in social studies and language arts
Fee: none

The course is designed to be an intensive study of Modern World History. The program prepares students for intermediate and advanced college courses by making demands on them equivalent to those of a full-year introductory college course. Students will learn to assess historical and literary material, its relevance, reliability, and significance. Students will be expected to weigh the evidence and take argumentative positions on the historic issues of the time period. The course requires extensive reading and writing.

AMERICAN HISTORY (ADVANCED PLACEMENT) - 255
Full year - 1 credit
Prerequisite: Teacher or counselor recommendation and/or successful completion of Honors World History
Fee: paperbacks

This course is designed to be an intensive study of American History from 15th century through the present day. This program prepares students for intermediate and advanced college courses by making demands on them equivalent to those of a full-year introductory college course. Students will learn to assess historical literary material, its relevance, reliability, and significance. Students will be expected to weigh the evidence and take argumentative positions on the historic issues of the time period. This course requires extensive reading and writing.

EUROPEAN HISTORY (ADVANCED PLACEMENT) - 222
Full year - 1 credit
Prerequisite: Teacher or counselor recommendation
Fee: paperbacks

The purpose of this course is to provide students with the analytical skills and factual knowledge necessary to deal critically with problems and materials in Modern European History. This course will develop the students’ skills necessary to arrive at conclusions on the basis of informed judgment and to present ideas clearly and persuasively in an essay format. Although the Advanced Placement Test is not required, students are strongly encouraged to take the test.

AMERICAN GOVERNMENT AND POLITICS (ADVANCED PLACEMENT) - 422
Full Year - 1 Credit
Prerequisite: A.P. American History and European A.P. (recommended) and a teacher or counselor recommendation
Fee: none

The purpose of this course is to provide students with the analytical skills, principles, and factual knowledge necessary to deal critically with problems and materials in the American political system. This course is designed to develop the student skills necessary to arrive at conclusions on the basis of informed judgment and to present ideas clearly and persuasively in an essay format. The course is conducted as an introductory college course and provides the student with the opportunity to receive college course credit upon successful completion of the Advanced Placement Test. Although the Advanced Placement Test is not required, students are strongly encouraged to take the test. A major portion of this course uses the We the People: The Citizen and the Constitution, which provides the students with an opportunity to develop argumentation skills related to the Constitutional underpinnings of the Constitution. This activity also requires the student to defend their position through a verbal defense.
COLLEGE PREP SOCIAL STUDIES

AMERICAN HISTORY I (COLLEGE PREP) - 254
Full year - 1 credit  Grade 10
Prerequisite: Completion of Global Studies 9  Fee: none
This course is designed to provide students with skills and factual knowledge necessary to deal critically with problems and materials in modern (1492 to 1865) American history. The program prepares students by making them aware of the important themes that reappear throughout American history. In addition, students will become aware of America's changing position in the world, learn to analyze historical evidence, and develop an awareness of historical trends. Students will develop the skills necessary to arrive at conclusions on the basis of informed judgment, and to present ideas clearly and persuasively in an essay format.

AMERICAN HISTORY II (COLLEGE PREP) - 256
Full year - 1 credit  Grade 11
Prerequisite: Completion of College Prep American History I with a C or higher  Fee: none
This course focuses on modern American history (1865 to present) and works to deepen the students' understanding of important themes and concepts seen in American history. Students will work to understand the emergence of the United States as a world power and understand the various issues that affected Americans throughout these times periods. Using a critical lens, the students will focus their learning on how the United States' society evolved into the society we know today. Topics that will be addressed include but are not limited to Jim Crow laws, U.S. imperialism, the Populist Era, World War I, the Great Depression, World War II, the Civil Rights Movement, Cold War, and the historical events of the 21st century. In addition, students will develop an understanding of reoccurring themes within American history. Students will also strengthen critical thinking skills and refine their abilities to present articulated, evidence-based claims in a variety of formats. As required by state legislation, students will take an end of course examination over the content material as well as a skills test in analyzing historical documents.

AMERICAN POLITICAL SYSTEMS (COLLEGE PREP) - 328
One semester - 1/2 credit  Grade 12
Prerequisite: CP American History 9 & 10  Fee: none
This course is a study of American government at the local and national levels. During the semester time is devoted to helping the student appreciate the development and heritage of our government, understand the vocabulary and machinery of our government, analyze significant chronic and current problems, and recognize the opportunities and responsibilities of citizenship in a democracy. Some specific areas studied are voting requirements, the political party system, civil liberties and presidential power, congressional power, and our courts. In addition to the textbook assignments, students are given reading assignments in recent magazines and newspapers so that their study of our government can be related to current happenings. Because of state legislation, students will be required to take a test over historical documents and an end of course test.
SOCIAL STUDIES ELECTIVES

APPLIED SOCIAL STUDIES - STUDENT COUNCIL - 434
Full Year: 1 credit  Grade 9, 10, 11, 12
Prerequisite: Application and Teacher recommendation  Fee: none
Class may be repeated ONLY with the permission of the instructor.
This class promotes student involvement in the school and community through service-learning. Students use their knowledge of a democratic government to create and maintain a working student government. Students act as representatives for the campus, bringing issues to the Council. They will use a citizenship model process to identify an issue, investigate current policy, design alternative solutions, and access community resources to enact change or remedy. They will design and implement service-learning projects that meet a need on campus or in the community. Students will be required to participate in school spirit and fundraiser projects, as well as volunteer in off-campus projects, and complete class service-learning projects. This course does not count toward the Social Studies requirements.

ECONOMICS (COLLEGE PREP) - 338
One semester - 1/2 credit  Grade 11, 12
Prerequisite: CP American History  Fee: none
The study of economics will help students to understand and value the capitalistic system, act more intelligently on questions of public economic policy; and make intelligent personal economic decisions. This course takes both a theoretical and hands-on approach. Some of the specific areas studied are productive resources, the market system, competition, labor unions, business fluctuations, economics growth, the role of money and banking and government in the economy and alternative economic systems.

PSYCHOLOGY (COLLEGE PREP) - 825
One semester - 1/2 credit  Grade 11, 12
Prerequisite: Completion of CP course - Grade 10  Fee: none
The goal of psychology is to develop the student’s knowledge of the basic principles, theories, and applications of psychology to assist the student to develop an awareness and understanding of basic human behavior. The influences of environment, heredity, patterns of development, adjustment problems, emotions, personality and intelligence are studied. Practical coping and communication skills are emphasized. Students should develop a better understanding of themselves, both physically and mentally and their role in society.

SOCIOLOGY (COLLEGE PREP) - 423
One semester - 1/2 credit  Grade 11, 12
Prerequisite: Completion of CP course - Grade 10  Fee: none
Sociology is the study of human groups and their relationships and interactions. This course places emphasis upon the impact that group behavior and learning have upon each individual. Specific areas include the family, peer groups, collective behavior, social stratification, social institutions (dating, marriage, and divorce), social problems and issues such as aging, euthanasia, minorities, discrimination, poverty, crime, depression, suicide, teen pregnancy, alcohol, drugs, child abuse, domestic violence, stress and their impact on society. Cultural diversity and individual development in the social structure (socialization) will also be studied. Sociologists help individuals gain a new perspective for looking at themselves society and the world.

WORLD CULTURES (COLLEGE PREP) - 345
Full Year: 1 credit  Grade 11, 12
Prerequisite: Completion of CP course - Grade 10  Fee: paperbacks
The focus of the course is cultural evolution from prehistoric through modern times. The history of these diverse cultures will be examined through study of their literature, philosophies, religions, and arts to allow the students to evaluate their own culture and role in an increasingly global society. Students exiting this course will have utilized college-prep-level reading, written and oral expression, and research and cooperative learning skills.
FRESHMAN TRANSITION MENTOR/LEADERSHIP PROGRAM – FTMP1

Full year - 1 credit
Grade 10, 11, 12
Prerequisite: Principal/Counselor Recommendation Fee: workbook

Application Process
This course will provide each freshman with a supportive environment that will allow for a smooth transition from middle school to high school, both academically and socially. This course will provide leadership opportunities for upperclassmen students that will include enforcing sections of the language arts and social studies curriculum. **This course does not count toward the Social Studies requirements**
GENERAL/CAREER TECH SOCIAL STUDIES

CONSUMER ECONOMICS (GENERAL/CAREER TECH) - 334
One semester - 1/2 credit                      Grade 11*
Prerequisite: none                            Fee: none

The main focus of this course is to blend a study of traditional economics and various issues of personal finance. The student will study economic systems, the free market economy of the U.S., money, banking and role of government in the economy within the context of consumerism, personal banking, insurance, careers and taxes in a hands-on approach to personal financial decision making.

*Millstream Career Center students may take Government or Economics either 11th or 12th grade year.
BASIC/CAREER TECH PROGRAM

AMERICAN HISTORY I (BASIC) - 252
Full year - 1 credit  Grade 10
Prerequisite:  Teacher or counselor recommendation  Fee:  none
This course is designed to help the student develop social studies skills and to help the student become aware of the values on which the American society was founded. The students will study American History from Exploration to 1865. Emphasis will be placed on concepts dealing with major events in American history through reading comprehension exercises, oral discussion and written expression.

AMERICAN HISTORY II (BASIC) - 253
Full year - 1 credit  Grade 11
Prerequisite:  Teacher or counselor recommendation  Fee:  none
The focus of this course is to help students continually develop their understanding of the events, values, and themes that developed within modern American history (1865 to present). Students will work to understand the emergence of the United States as a world power and understand the various issues that affected Americans throughout these times periods. Topics that will be addressed include but are not limited to Jim Crow laws, U.S. imperialism, the Populist Era, World War I, the Great Depression, World War II, the Civil Rights Movement, Cold War, and the historical events of the 21st century. In addition, students will develop an understanding of reoccurring themes within American history. Students will focus their learning not only on these events, but also in becoming proficient social studies thinkers. The students will work to strengthen their social studies skills through reading comprehension strategies, vocabulary exercises, oral discussion, and written expression. As required by state legislation, students will take an end of course examination over the content material as well as a skills test in analyzing historical documents.

AMERICAN GOVERNMENT (BASIC) - 420
One semester - 1/2 credit  Grade 11, 12*
Prerequisite:  Recommendation of teacher or guidance counselor  Fee:  none
This course is designed to help the student understand American government at the local, state and national levels. Emphasis will be placed on helping the student become aware of the responsibilities, functions and problems related to the federal system.
*Millstream Career and Technology students may take Government or Economics either 11th or 12th grade year.
SPECIAL EDUCATION

Students who are eligible for special education services are required to have an individualized education plan (IEP) in place. This plan designates the student’s placement for receiving specially designed instruction. The Individuals with Disabilities Education Improvement Act (IDEIA 2004) requires that a continuum of services be offered. The IEP sections seven (7) and eleven (11) specify the educational placement of a student to receive services. These options are described below.

Regular education class: IEP services are provided by the regular education, in collaboration with the intervention specialist.

Co-taught class: IEP services are provided through a co-teaching model which includes regular education teacher and intervention specialist within the classroom.

Resource room: IEP services are provided in a separate setting for part of the day for one or a few subjects; the individual receives more individual assistance and is taught using a highly accommodated curriculum based on regular education courses of study. Intervention specialists teach these courses.

Self-contained classroom: Instruction takes place in a separate classroom setting for most or all of the day. There are several specified areas based on student needs. Intervention specialists teach courses.
Learning that works for YOU!

Educating Students-Empowering Communities-Workforce Development

Course Selection Guide

for 2017-2018

Arcadia~Arlington~Carey~Cory-Rawson~FDA~Findlay~Leipsic~Liberty Benton~McComb
Miller City-New Cleveland~Ottawa-Glandorf~Pandora-Gilboa~Riverdale~Van Buren~Vanlue
MILLSTREAM CAREER & TECHNOLOGY CENTER

Training in each program consists of related classroom instruction and practical hands-on projects aimed at developing the knowledge and skills required for career success. Development of leadership skills that are critical in today’s workplace are accomplished in part through membership and participation in the following co-curricular organizations: DECA – An Association of Marketing Students, SkillsUSA, FCCLA – Family, Career and Community Leaders of America, and FFA – Future Farmers of America.

Business & Administrative Services
- Office & Print Technologies

Construction Technologies
- Construction Skills
- Building & Grounds Maintenance

Education & Training
- Early Childhood Education

Engineering & Science Technologies
- Engineering & Computer-Aided Drafting Technologies

Health Science
- Medical Technology
- Nurse Assisting (Senior only – single period)

Hospitality & Tourism
- Culinary Arts
- Hospitality & Restaurant Services

Human Services
- Cosmetology

Information Technology
- Computer Networking & Support
- Interactive Multimedia
- Programming & Software Development Technologies

Manufacturing Technologies
- Welding Technology

Marketing
- Marketing I & II

Transportation Systems
- Automotive Maintenance
- Automotive Technology

Specialized Transitional Program
- Occupational Transitions- Grades 10-12
- Millstream Career Experiences- Grade 10

Agricultural and Environmental Systems
All Agricultural courses are offered at various county schools.
MILLSTREAM CAREER AND TECHNOLOGY PROGRAMS

BUSINESS AND ADMINISTRATIVE SERVICE CAREERS

OFFICE & PRINT TECHNOLOGIES I

Business Foundations 353 – 1.5 credits (1st semester)  
Fundamentals of Business Administration 354 – 1.5 credits (2nd semester)  
Level 1:  
Full year – 3 periods per day  
Grade 11  
Dues: $30.00 SkillsUSA  
Prerequisite: none required, but having taken Keyboarding and Encounters w/Technology I are recommended.

This program provides students, who have an interest in learning business skills, an opportunity to learn and work with beginning level of the Microsoft Office with emphasis on Word, Excel, Publisher and PowerPoint. Students learn general record-keeping, business math, and 10-key calculators. Skills learned include digital filing, business English, human relations, communications, proper dress and grooming and job related skills necessary to obtain job placement.

Business Foundations: Introduces students to the Business & Administration Services career field. Students will obtain knowledge of skills in fundamental business activities. They will gain knowledge of business processes, economics and business relationships. Employability skills, leadership, communications and personal financial literacy will be addressed.

Fundamentals of Business Administration: Students will obtain fundamental knowledge and skills in general management, human resources management, operations management, business informatics and office management. They will gain knowledge of business operations, business relationships, resource management, process management and financial principles. Students will use technological tools and applications to develop business insight.

Students operate The Print Place at Millstream as a small business and obtain an introduction to operating office and printing technology as well as being introduced to graphic and form design. Attendance and punctuality are of the utmost importance. Students will participate in SkillsUSA.

OFFICE & PRINT TECHNOLOGIES II

Management Principles 351 – 1.5 credits (1st semester)  
Office Management 3542 – 1.5 credits (2nd semester)  
Level II  
Full year – 3 periods per day  
Grade: 12  
Dues: $30.00 SkillsUSA  
Prerequisite: Office & Print Technologies I, or equivalent, required. Encounters w/Technology I and/or Desktop Publishing are recommended.

This program is a continuation of OFFICE & PRINT TECHNOLOGIES I and will add to the competencies learned in year one.

Management Principles: Students will learn to manage a workforce, lead change, and build relationships with employees and customers. Students will use technology to analyze the business environment, determine trends impacting business, and examine risks threatening organizational success. Ethical challenges, project management and strategic planning will also be addressed.

Office Management: Students will learn to build relationships with clients, employees, peers and patrons and to assist new employees. They will manage business records, gather information, and save/archive important files. They will also examine customer orders, internal rules and company regulations.

Students operate The Print Place at Millstream as a small business with emphasis on independent problem-solving, initiating work orders, completing customer orders, customer service, inventory/stock management and can be involved with further training in graphic and form design with potential introduction to working with Adobe CC software, dependent upon student achievement. Attendance and punctuality are of the utmost importance. Students will participate in the activities of SkillsUSA and are encouraged to be competitors. Early placement for qualified students is an opportunity for students to work in a program-related occupation during second semester.
CONSTRUCTION TECHNOLOGY CAREERS

CONSTRUCTION SKILLS I

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
<th>Fee</th>
<th>Dues</th>
<th>Additional Costs</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Technology - 301</td>
<td>1.5</td>
<td>11</td>
<td>$15.00</td>
<td>$30.00 SkillsUSA</td>
<td>Instructor approved tool kit, work clothes and boots</td>
<td></td>
</tr>
<tr>
<td>And Carpentry &amp; Masonry Skills – 302</td>
<td>1.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full year – 3 periods per day

This course is designed to prepare students to enter the workforce in the construction trade area. Competencies learned include concrete, masonry, carpentry, plumbing, and electrical skills. Actual skill training is accomplished with well-structured in-lab experiences along with actual on-the-job instruction. Employability skills required by employers are taught and stressed. Attendance and punctuality are of the utmost importance. Students are members of SkillsUSA and participate in related activities that utilize the skills learned in this course.

CONSTRUCTION SKILLS II

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
<th>Fee</th>
<th>Dues</th>
<th>Additional Costs</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Systems – 401</td>
<td>1.5</td>
<td>12</td>
<td>$15.00</td>
<td>$30.00 SkillsUSA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>And Structural Coverings and Finishes - 402</td>
<td>1.5</td>
<td></td>
<td></td>
<td></td>
<td>Instructor approved tool kit, work clothes and boots</td>
<td></td>
</tr>
</tbody>
</table>

Full year – 3 periods per day

Prerequisite: Construction Skills I

The second year of Construction Skills Technology is designed to further train students in the construction trades. Competencies in residential and commercial construction applications are introduced and practiced through lab situations and community projects. Training will be on-the-job instruction. Students who meet qualifications are eligible for early placement in the areas of carpentry, concrete, masonry, plumbing and electrical. Students are members of SkillsUSA and participate in related activities.

BUILDING AND GROUNDS MAINTENANCE I & II

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
<th>Fee</th>
<th>Dues</th>
<th>Additional Costs</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level I: Construction Technology – 203</td>
<td>1.5</td>
<td>11 &amp; 12</td>
<td>$15.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>And Remodeling &amp; Renovation – 204</td>
<td>1.5</td>
<td></td>
<td></td>
<td></td>
<td>Instructor approved tool kit, work clothes and boots</td>
<td></td>
</tr>
</tbody>
</table>

Level II: Facility & Building Maintenance - 201

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
<th>Fee</th>
<th>Dues</th>
<th>Additional Costs</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>And Custodial Services - 202</td>
<td>1.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full year – 3 periods per day

Student training will focus on the skills necessary to maintain and improve both industrial and residential work sites. Students will receive training in both outdoor and indoor work environments. The outdoor portion consists of: landscape maintenance and installation techniques; the safe use and repair of outdoor power equipment; lawn maintenance and installation; proper plant care methods including planting, pruning, and fertilizing; outdoor building maintenance, and limited new construction. The indoor portion consists of: small engine and equipment maintenance and repair; general carpentry work; the safe use of indoor chemicals and equipment; learning basic plumbing and electrical troubleshooting skills; proper cleaning and building maintenance. The lab experiences for this program may be at various Findlay City Schools and community sites. Students are members of SkillsUSA and participate in related activities. Work boots, gloves, 3 uniform shirts, and outdoor work gear are required for this program.
**EDUCATION & TRAINING CAREERS**

**EARLY CHILDHOOD EDUCATION I**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
<th>Grade</th>
<th>Fee</th>
<th>Dues</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro. to Education and Training- 261</td>
<td>1.5</td>
<td>1st</td>
<td>Grade 11</td>
<td>$20.00 includes workbook</td>
<td>$30.00 SkillsUSA</td>
</tr>
<tr>
<td>And Early Childhood Education-262</td>
<td>1.5</td>
<td>2nd</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full year – 3 periods per day</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

This is the first year of a two-year course designed to provide students with an introductory experience and foundation knowledge of children, their care and their learning from birth through age 5. Students will contribute to the operation of the YMCA Child Development Center by working in the infant, toddler and preschool rooms. The first year curriculum is based on age and developmental levels of child care/learning for infants, toddlers, and preschoolers. Each of the two years places students at childcare sites for individual trainings. The CDA (Child Development Associate) training is included in both years. Students complete the CDA resource file and earn child contact hours towards the completion of the CDA during the first year. Students must complete an employee file which includes but is not limited to a physical, Mantoux (TB) screening, references, and state-required trainings in order to participate at the YMCA. Failure to complete these Ohio Department of Education requirements in order to work in a childcare setting will result in omission from the program. To participate in this program, students must pass a state required FBI & BCI background check. Students are members of SkillsUSA and participate in related activities.

**EARLY CHILDHOOD EDUCATION II**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
<th>Grade</th>
<th>Fee</th>
<th>Dues</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro. to Education and Training-333CCP</td>
<td>1.5</td>
<td>1st</td>
<td>Grade 12</td>
<td>none</td>
<td>$30.00 SkillsUSA</td>
</tr>
<tr>
<td>And Early Childhood Education-357CCP</td>
<td>1.5</td>
<td>2nd</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full year – 3 periods per day – 2 credits lab, 1 credit related</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Prerequisite: Successful completion of Early Childhood Education I**

The second year requires the students to effectively work in the role of lead teacher, assistant teacher, and aide. Students will complete an internship at one of the Findlay City Schools preschools, as well as work with students in the elementary and primary schools in Findlay. Students complete the competency statements and additional child contact hours for the CDA in order to then pursue the credential after high school graduation. Students must maintain their employee file which includes but is not limited to a physical, Mantoux (TB) screening, references in order to participate at Findlay area elementary and primary schools. Failure to complete these Ohio Department of Education requirements in order to work in a childcare setting will result in omission from the program. Students will repeat the FBI & BCI background check. Students are members of SkillsUSA and participate in related activities.

This is a College Credit Plus class – If you are interested in receiving college credit, your parents should attend their home school CCP meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

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ENGINEERING & SCIENCE TECHNOLOGY CAREERS

**Recommended Pathway for Engineering**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>Blueprint Reading &amp; Intro to CAD</td>
<td>½ each</td>
</tr>
<tr>
<td>10th</td>
<td>Pre-Engineering</td>
<td>1</td>
</tr>
<tr>
<td>10th</td>
<td>Pre-Architecture</td>
<td>1</td>
</tr>
<tr>
<td>11th</td>
<td>Engineering &amp; CAD I</td>
<td>1</td>
</tr>
<tr>
<td>11th</td>
<td>Architectural Plan Reading (2nd sem.)</td>
<td>1</td>
</tr>
<tr>
<td>12th</td>
<td>Engineering &amp; CAD II</td>
<td>1</td>
</tr>
<tr>
<td>12th</td>
<td>Architectural Site Prep &amp; Structures</td>
<td>1</td>
</tr>
</tbody>
</table>

**ENGINEERING & COMPUTER-AIDED DRAFTING TECHNOLOGIES I- ET**

**Engineering Track:**
- Engineering Design – 826CCP 1 credit 1\(^{st}\) semester Grade 11
- Engineering Principles – 827 1 credit 2\(^{nd}\) semester
- Plus co-academic: College Prep English – 346MCC : Full year 1 credit

**Architecture Track:**
- Engineering Design – 826CCP 1 credit 1\(^{st}\) semester Grade 11
- Architectural Plan Reading – 828 1 credit 2\(^{nd}\) semester
- Plus co-academic: College Prep English – 703MCC : Full year 1 credit

Fee: $60.00 project supplies
Dues: $30.00 SkillsUSA

The Engineering and Computer Aided Drafting Technologies program provides students with the necessary technology skills to enter a professional career in an engineering setting and the basic background for a successful experience at the college level in engineering. Students will acquire knowledge and skills in design, blueprint reading, manufacturing processes, electrical and mechanical engineering, electric control, programmable logic control, pneumatics, quality assurance, and hydraulics. Students interested in architecture will get exposure to residential design and site design. Students may gain dual enrollment status in CAD courses. The course is centered around using AutoCAD, Solidworks and Revit which are the main drafting and design programs used in the field. Students will also gain team building and problem-solving skills as well as skills in technical writing and public speaking.

The Engineering and Computer Aided Drafting Technology program prepares students to enter a two or four-year college program for engineering or one of the following engineering technician careers: electronics, electrical maintenance, electromechanical, mechanical, industrial manufacturing, CAD, tool and die, or quality control. Students are members of Skills/USA and participate in related activities.

This is a College Credit Plus class – If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

***ET*** Classes marked with ET (Emerging Technologies) fulfills the emerging technology credit for FHS.
ENGINEERING & COMPUTER-AIDED DRAFTING TECHNOLOGIES II - ET

**Engineering Track:**
- Mechanisms & Drives – 829CCP 1 credit 1st semester Grade 12
- Robotics – 830CCP 1 credit 2nd semester
- Plus co-academic: College Prep English – 346MCC - Full year 1 credit

**Architecture Track:**
- Architectural Site and Foundation Preparation – 831 1 credit 1st semester Grade 12
- Architectural Structures – 832 1 credit 2nd semester
- Plus co-academic: College Prep English – 703MCC - Full year 1 credit

**Prerequisites:** 826CCP and 827 OR 826CCP and 828

Students will achieve increased mastery of the skills learned in Engineering Technology I. In addition students will learn to operate CNC machine tools, automated handling systems, robotics and programmable logic controllers. Students may earn a Fanuc Robotics Certification. Students in this class have the opportunity to test their skills at multiple competition. We participate in the BEST Robotics competition, Toledo AIA for architecture and Skills USA competitions. These may require outside mandatory class times including weekend events. Architects will venture deeper into residential design including floor plans, mechanicals, wall sections, and roofs. Dual enrollment is also available for the engineers their senior year. Early Placement for qualified students is an opportunity for students to work in a paid program-related occupation. Students are members of SkillsUSA and participate in related activities, such as local, state and national competitions. Students must successfully complete a senior project based on a topic developed around the student’s career focus.

This is a College Credit Plus class – If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

### Senior Engineering Class
- Availability based on student enrollment

**ROBOTICS TECHNOLOGY -- Single Period Class**
- Robotics – 456 1 credit Grade 12 only
- Full year - 1 period per day Fee: $ 20.00

**Prerequisites:** On track for graduation and
Enrolled in or have successfully completed Algebra II

Local companies are in need of employees who can program and interface with industrial robots. In the first semester students will learn how to utilize and program the FANUC robot used by some of these local companies. Denzo and Pegasus robots are also part of the classroom instruction. Students have the opportunity to gain FANUC certification from this training.

The second semester is dedicated to CNC (Computer Numerical Control) programming and implementing student designed programs using a Denford Milling Machine and related software.
HEALTH SCIENCE CAREERS

MEDICAL TECHNOLOGY

The Medical Technology program spans two years.

The Medical Technology program is designed to incorporate academic instruction with technical skill proficiency to provide the student with the knowledge and capabilities needed as a foundation for advancing their medical related education at a college or university.

The program goal is to encourage the students to apply the knowledge and confidence gained through this program as an incentive to continue their medical education in college. Medical Terminology will be a major component in both years. Students will complete Nurse Aide training and will be qualified and encouraged to take the Ohio Nurse Aide State Test (STNA). Students also earn AHA Certification “CPR for HealthCare Providers.” The students will learn first aid, anatomy, phlebotomy, physiology, dental, and office skills including medical coding, medical law and ethics.

MEDICAL TECHNOLOGY I

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Term</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Terminology - 397CCP</td>
<td>1</td>
<td>Full year</td>
<td>11</td>
</tr>
<tr>
<td>Health Science-396</td>
<td>1</td>
<td>Full year</td>
<td></td>
</tr>
<tr>
<td>Plus co-academic: College Prep English – 346MCC</td>
<td>1</td>
<td>Full year</td>
<td>Fee: $48 includes workbooks</td>
</tr>
</tbody>
</table>

(Students must also enroll in chemistry at their home school)

Prerequisite: Successful completion of Biology and Algebra I before enrolling.
Co-Requisite: Students in this course must also enroll in CP Chemistry in their junior year (or before).

The focus of the junior year will be identifying and learning about the many health career choices available, introduction to college level medical terminology and preparation for advanced patient care techniques. Students are member of SkillsUSA and participate in related activities.

This is a College Credit Plus class – If you are interested in receiving college credit, your parents should attend your home school meetings to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

MEDICAL TECHNOLOGY II

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Term</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Allied Health- 496CCP</td>
<td>1</td>
<td>1st semester</td>
<td>12</td>
</tr>
<tr>
<td>Patient Centered Care-501CCP</td>
<td>1</td>
<td>2nd semester</td>
<td></td>
</tr>
<tr>
<td>Plus co-academics: College Prep English 703MCC and FHS Anatomy* - 493</td>
<td>1</td>
<td></td>
<td>Fee: $35 for workbooks and STNA exam</td>
</tr>
</tbody>
</table>

1 credit academic (FHS Anatomy)  
1 credit academic (CTP English 12)  
Dues: $30.00 SkillsUSA

Prerequisite: Successful completion of Medical Technology I and Chemistry.
Co-Requisite: Students must also enroll in FHS College Tech Prep Anatomy – 493 as a part of this program.

The focus of the senior will be the application of medical knowledge, demonstration of skilled services and critical thinking. Because training and clinical hours are documented and reported to the Ohio Department of Nursing, excellent attendance is an expectation. Students are expected to adhere to professional standards of ethics and conduct. Students must successfully complete a senior project based on a topic developed around the student’s career focus. Students will job-shadow at a local medical office or facility. Students are member of SkillsUSA and participate in related activities.

This is a College Credit Plus class – If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.
NURSE ASSISTING

A One-Year, Senior Program

The Nurse Assisting program is designed to provide technical skill proficiency to students who want to begin work as an entry-level nurse aide or related position.

Students will complete Nurse Aide training and will be qualified and encouraged to take the Ohio Nurse Aide State Test (STNA). Students will learn first aid, medical law, ethics and earn AHA Certification “CPR for HealthCare Providers.”

Students are members of the student organization SkillsUSA and have the opportunity to participate in leadership activities and competition at the local, state and national levels.

NURSE ASSISTING – 497CCP
Full year - 1 period per day- 1 credit

Grade 12 only
Fee: $35 includes STNA, workbook,scrubs,TB test and STNA exam
Dues: $30.00 SkillsUSA

Prerequisites: On track for graduation

Students will learn basic healthcare fundamentals and complete the State Nurse Aide training program and have an opportunity to take the Ohio Nurse Aide State Test. Due to the required clinical environment and high level of expected behavior, students must be at or above maturity level for their age and exhibit a great deal of personal responsibility. Instruction and training will take place in both the classroom and at an area clinical site. Because training and clinical hours are documented and reported to the Ohio Department of Nursing, excellent attendance is an expectation. Students are expected to adhere to professional standards of ethics and conduct. Students are members of SkillsUSA and participate in related activities.

This is a College Credit Plus class – If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.
HOSPITALITY & TOURISM CAREERS

CULINARY ARTS I

OCC Culinary Arts I-349CCP 1.5 credits  Grade 11
Culinary Arts I- 370 1.5 credits  Fee: $61.00 + $9 Tech fee
Full year – 3 periods per day  Dues: $30.00 SkillsUSA

Additional Cost: Black shoes non-skid required

Suggested Prerequisite: Foods and Nutrition – 591, ServSafe

Following the Prostart curriculum, students will utilize all popular cooking methods to prepare a wide variety of foods and baked items, effectively use standardized formulas and recipes, while maintaining a safe and sanitary food service environment. Students will learn to properly use and maintain hand tools and equipment found in commercial kitchens and bakeries, and gain an understanding and application of basic culinary and industry terminology. Students will plan, schedule, and prepare food for The Café@ Millstream, our in-house restaurant (open to the public), banquets and other special events. Students are members of SkillsUSA, our student leadership group.

This is a College Credit Plus class – Students successfully completing this class may receive advanced college standing by way of articulation or transcript college credit through dual enrollment agreements with select colleges and universities. If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

CULINARY ARTS II

Culinary Arts II – 260 1.5 credits  Grade 12
Culinary Arts II-259 1.5 credits  Fee: $61.00 + $9 Tech fee
Full year – 3 periods per day  Dues: $30.00 SkillsUSA

Additional Cost: Black shoes non-skid required

Prerequisite: successful completion of Culinary Arts I

The Senior year is designed to build upon the basic skills gained in the first year of Prostart. The competencies mastered in the second year will provide a smooth transition for students interested in post-secondary education in the Culinary Arts/Foodservice area or employment in the foodservice industry. Competencies will include: cooking methods and the ability to apply them to a wide range of cooking styles and products essential for success in a culinary career. Topics will include: seafood, poultry, meat cookery, fruits and vegetables, salads/sandwiches, stock/soup/sauces, pastry arts, international cuisine, purchasing, service application, dining room service, management skills, merchandising and selling, sanitation and safety. A foodservice job with 250 documented hours is mandatory for Prostart. Students earn an additional 150 hours of Prostart employment hours through our restaurant and catering events. Students are members of SkillsUSA, a student leadership group.
HOSPITALITY & RESTAURANT SERVICES I
Level I: Lab – 238 Related - 217
Full year – 3 periods per day – 2 credits lab
1 credit related
Grade 11
Fee: FHS $9.00 Tech
Dues: $30.00 SkillsUSA

This program is designed to prepare students for entry-level employment in the growing hospitality industry. Training emphasis is on providing environmental services such as: food services in hotels, motels, hospitals, nursing homes, and restaurants, room keeping, laundry and banquet set-up. Safe work habits and employability skills are emphasized. An in-house lab, as well as various community sites, provides students with hands-on experiences. Students are members of SkillsUSA and participate in related activities.

HOSPITALITY & RESTAURANT SERVICES II
Level II: Lab - 239 Related - 218
Full year – 3 periods per day – 2 credits lab
1 credit related
Grade 12
Fee: FHS $9.00 Tech
Dues: $30.00 SkillsUSA

Prerequisite: Successful completion of Hospitality I
The senior year is designed to continue further training in the hospitality industry with extended emphasis on restaurant services such as: servers, host/hostess, pre-cook and line cook while continuing to build sanitation and safety skills. Students will have the opportunity for certification for front desk representative and room attendant. An in-house lab, as well as various community sites, provides students with hands-on work experiences. Students are members of SkillsUSA and participate in related activities.
HUMAN SERVICES CAREERS

COSMETOLOGY I
Lab - 369 - Related – 367
Full year – 3 periods per day – 2 credits lab, 1 credit related

Grade 11
Fee: $150.00
(includes shear kit, mannequin, smock with Millstream covering additional kit costs)
Dues: $30.00 SkillsUSA
Additional costs: uniform, shoes
(approximately $90.00)

Prerequisite: Math and Science (Biology, Chemistry, Anatomy or Physiology) Course Required
This is the first year of a two year program for a 1200 hour Hair Design only licensure. The course of study includes: care of scalp (shampoos and rinses); care of hair (styling, cutting, hair color, permanent waving); dispensary (proper use of chemicals; scientific lectures pertaining to cosmetology, hygiene, and physiology anatomy). A kit and mannequin will be used during this year. Students are members of SkillsUSA and participate in related activities.

Note: Students may have the option of acquiring hours during summer school between the junior and senior year (or before their junior year) to obtain skin and nail care classes and instruction to complete the equivalent of a 1500 hour cosmetology licensure program.

COSMETOLOGY II
Lab - 469 - Related - 467
Full year – 3 periods per day – 2 credits lab, 1 credit related

Grade 12
Fee: $75.00 (includes mannequin state board kit with Millstream paying additional state board costs)
Dues: $30.00 SkillsUSA
Additional costs: optional equipment kit upgrades (approximately $75.00)

Prerequisite: Successfully completion of Cosmetology I
This is the remainder of the instruction required to qualify to take the State Board of Cosmetology exam for licensing. The credits required are theory with related math and lab. Senior students will have guidance in personality development, attitude and practice toward entry-level skills in a salon style environment. Seminars include hair care, skin care, permanent waving, hair color as well as theory and technical review before applying to take the State Board examination. Students are members of SkillsUSA and participate in related activities.
INFORMATION TECHNOLOGY CAREERS

COMPUTER NETWORKING AND SUPPORT I - ET

Networking/Hardware – 403CCP  
1st semester 1 credit  
Grade 11

Network/ Operating Systems – 404CCP  
2nd semester 1 credit

Plus co-academic: College Prep English – 346MCC  
1 credit

Full Year – 3 periods per day

1 credit academic – CP English

Dues: $30.00  SkillsUSA

Plus optional certification tests

The Computer Networking and Support program is a two-year program designed to prepare students for job placement in the technology field. The primary goal is to provide a seamless transition from high school to an Associate and/or Bachelor degree program. Competencies learned will include computer systems- both hardware and software, providing technical assistance; set up, management, maintenance and upgrading of computer systems. Areas studied will include Computer Operation Fundamentals, Operating Systems Basics and A+ Hardware Basics. The program includes skill-based instruction appropriate for gaining an A+ certification. Students are members of SkillsUSA and participate in related activities.

This is a College Credit Plus class –If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

COMPUTER NETWORKING AND SUPPORT II - ET

Network/CISCO/ Networking Essentials – 405CCP  
1st semester 1 credit  
Grade 12

Network/CISCO II/ Routing & Switching – 406CCP  
2nd semester 1 credit

Plus co-academic: College Prep English – 703MCC  
1 credit

Full Year – 3 periods per day

Dues: $30.00  SkillsUSA

Plus optional certification tests

Prerequisite: Successful completion of 403CCP & 404CCP

The second year of the Computer Networking and Support program builds upon the skills from Computer Networking and Support I. The focus of this course will be students’ development of knowledge in Networking and Cisco technologies. Education through the Cisco Academy will be provided with a focus on Networking Basics and Routing and Switching Basics. The primary goal is to provide a seamless transition from high school to an Associate and/or Bachelor degree program. The Program includes skill-based instruction appropriate for gaining Cisco Certifications. Students are members of Skills USA and participate in related activities.

This is a College Credit Plus class –. If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

***ET*** Classes marked with ET (Emerging Technologies) fulfills the emerging technology credit for FHS.
Do you like animation, digital photography, or video production and design? Would you like to receive free college credit and scholarship opportunities when you graduate? Then Interactive Multimedia Technology is for you! In this program students will gain additional skills in digital media production and graphics design. Students will work on audio/visual techniques necessary to produce media products for marketing in the print and television industries. Students will learn state-of-the-art software applications and techniques necessary to be successful in a career in media production and design for business, training, entertainment, and communications industries. Additionally students are members of SkillsUSA and participate in related activities.

This is a College Credit Plus class – . If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

***ET*** Classes marked with ET (Emerging Technologies) fulfills the emerging technology credit for FHS.
**PROGRAMMING & SOFTWARE DEVELOPMENT TECHNOLOGIES I - ET**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester</th>
<th>Credits</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Programming – 510CCP</td>
<td>1st</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td>And Introduction to Visual Programming – 511CCP</td>
<td>2nd</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Plus co-academic: College Prep English –346MCC</td>
<td>Full year</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Full year – 3 periods per day

Dues: $30.00 SkillsUSA

This program is the first of a two-year program focusing on the design, development and implementation of computer applications. Students will be introduced to programming, gaming theory and applications development, as well as acquire problem-solving skills needed to develop PC and gaming console based applications. Students will be introduced to the programming process using the most current applications development software like (Visual Basic, C++, C#, JAVA, Python, and Unity for gaming). Students will be introduced to Project Management methodology and many other IT and business basic skills necessary to be successful as a future programmer. Students will have the opportunity to receive free college credits while enrolled in this program from Rhodes State. All students become members of SkillsUSA and participate in related activities.

This is a College Credit Plus class –. If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

**PROGRAMMING & SOFTWARE DEVELOPMENT TECHNOLOGIES II - ET**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester</th>
<th>Credits</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Visual Programming – 512CCP</td>
<td>1st</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>And Systems Analysis Designs– 513CCP</td>
<td>2nd</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Plus co-academic: College Prep English – 703MCC</td>
<td>Full year</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Full year – 3 periods per day

Dues: $30.00 SkillsUSA

Prerequisite: Successful completion of 510CCP & 511CCP

This program builds upon the skills acquired in Programming & Software Development Technology I. The focus of this program will be advanced programming theories and Project Management methodology. Class activities are project-driven, team-based, and designed to model the current business project process. Students will develop more complex software applications and be introduced to additional programming languages. Students are members of SkillsUSA and participate in related activities. Students must successfully complete a senior project based on a topic developed around the student’s career focus.

This is a College Credit Plus class –. If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

***ET*** Classes marked with ET (Emerging Technologies) fulfills the emerging technology credit for FHS.
**MANUFACTURING TECHNOLOGY CAREERS**

**WELDING TECHNOLOGY**

Introduction to Welding & Safety – 473  
1st semester  1.5 credits  Grade 11  
And Basic Welding Techniques – 474  
2nd semester  1.5 credits  
Full year – 3 periods per day  

Dues: $30.00 SkillsUSA  
Additional costs: welding equipment, work clothes and boots

The Welding Technology program is designed to prepare students with modern welding process. During the junior year students learn to properly set up and operate gas-welding equipment (OAW), torch brazing (TB), gas cutting (OAC), and plasma arc cutting (PAC); also stick welding (SMAW) and wire welding (GMAW). Students learn edge preparation methods and techniques in welding low carbon steel and sheet metal. In addition, juniors learn employability and leadership skills. Students are members of SkillsUSA and participate in related activities.

**WELDING TECHNOLOGY**

Intermediate Welding Techniques – 475  
1st semester  1.5 credits  Grade 12  
And Advanced Welding Techniques - 476  
2nd semester  1.5 credits  
Full year – 3 periods per day  

Dues: $30.00 SkillsUSA  
Additional costs: welding equipment, work clothes and boots

**Prerequisite: 473 and 474**

The second year of the Welding Technology course is designed to prepare students with modern welding processes in maintenance of machinery, mechanical equipment, and automated devices of an industrial plant or job shop. Students learn to properly set up and operate gas welding equipment, torch brazing, gas cutting and plasma arc cutting, stick welding and wire welding. Students learn edge preparation methods and techniques in welding low carbon steel and sheet metal. Early Placement for qualified students is an opportunity for students to work in a program-related occupation. Students who successfully complete both levels of this program will be qualified to take the AWS (American Welding Society) certification test. Students are members of SkillsUSA and participate in related activities.

**ADVANCED MANUFACTURING**

Introduction to Lean Six Sigma and Lean Manufacturing- 293-1  
1st semester  0.5 credits  Grade 12  
Seniors only  
Second semester only - 1 period per day

Dues: $30.00 SkillsUSA  
Additional costs: welding equipment, work clothes and boots

Lean Six Sigma is a designed and disciplined business methodology to increase customer satisfaction and profitability by streamlining operations, improving quality and eliminating defects in every process company-wide. Co-taught by Cooper Tire employees, this class is designed to be an introduction into the manufacturing trade. Upon completion of the class, students could be eligible for a full-time position in Hancock County.
MARKETING CAREERS

Recommended Pathway for Marketing Classes

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>8th/9th Grade</td>
<td>Encounters with Technology I</td>
<td>½ credit</td>
</tr>
<tr>
<td>10th Grade</td>
<td>Intro. to Business</td>
<td>½ credit</td>
</tr>
<tr>
<td>11th Grade</td>
<td>Marketing Principles I</td>
<td>1 credit</td>
</tr>
<tr>
<td>12th Grade</td>
<td>Marketing Communications</td>
<td>1 credit</td>
</tr>
<tr>
<td>12th Grade</td>
<td>Strategic Entrepreneurship</td>
<td>1 credit</td>
</tr>
</tbody>
</table>

*Additional course suggestion: Accounting #258

MARKETING PRINCIPLES I – 458
Grade 11
Full year – 1 period per day – 1 credit  
Dues: $20 – DECA

Marketing I is designed to prepare students to develop the skills necessary to be a team player and marketing professional in today’s constantly-changing business world. Marketing students will explore marketing communications, merchandising and professional selling. They will develop and implement marketing strategies and techniques across marketing functions: channel management, marketing research, market planning, pricing, product/service management and branding. Technology, employability skills, leadership and communication will be incorporated in classroom activities. Students have a unique opportunity to participate in DECA, a marketing student association that helps members develop leadership and teamwork skills, a network of marketing contacts, and a desire to serve the community.

MARKETING COMMUNICATIONS II – 459CCP
Grade 12
Full year – 1 period per day – 1 credit  
Dues: $20 - DECA

Prerequisite: Successful completion of Marketing Principles I- #458
Co-requisite: Marketing Supply Chain Management # 460

Marketing II will advance student knowledge in the marketing areas introduced in Marketing I. In addition, students will create, execute, and evaluate promotional strategies, and content for advertising, sales, promotion, and publicity/public relations. Students will also develop buying and merchandising skills. Technology, employability skills, leadership and communications will be incorporated in classroom activities. Students are members of DECA and will continue to develop marketing competency, integrity, and teamwork while participating in local, district, and state DECA activities.

This is a College Credit Plus class – If you are interested in receiving college credit, your parents should attend your home school meeting to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

STRATEGIC ENTREPRENEURSHIP- 460
Grade 12
Full year – 1 period per day – 1 credit  
Dues: $0

Students will use innovation skills to generate ideas for new products and services, evaluate the feasibility of ideas, and develop a strategy for commercialization. They will use technology to select target markets, profile target customers, define the venture’s mission and create business plans. Students will take initial steps to establish a business. Students will calculate and forecast costs, break-even, and sales. Establishing brand, setting prices, promoting products, and managing customer relationships will be emphasized.
TRANSPORTATION SYSTEMS CAREERS

AUTO MAINTENANCE I
Level I: Lab – 206 Related - 205
Grade 11
Full year – 3 periods per day – 2 credits lab, 1 credit related
Dues: $30.00 SkillsUSA

Related information in the classroom and hands-on experiences in the lab provide the students with basic training in automobile maintenance tasks and employability skills. Students perform services on customer vehicles in the following areas: auto detailing, tire & wheel service, lubrication services, diagnosis and repair of brake systems, cooling systems services, and exhaust systems. All students are provided with leadership opportunities through participation in SkillsUSA activities.

10 hours of OSHA industry certification is available.

AUTO MAINTENANCE II
Level II: Lab – 335 Related – 329
Grade 12
Full year 3 periods per day – 2 credits lab, 1 credit related
Dues: $30.00 SkillsUSA

Prerequisite: Auto Maintenance I #205 and #206
The second year of the Auto Maintenance program covers gasoline engine construction, engine performance and operating principles, steering and suspension systems, emission control systems and electrical systems basics. All areas covered in Auto Maintenance I will be reviewed. Qualified students are eligible for early placement program upon completion of first semester. All students are provided with leadership opportunities through participation in SkillsUSA activities.

10 hours of OSHA industry certification is available.
TRANSPORTATION SYSTEMS Continued:

AUTOMOTIVE TECHNOLOGY I
Lab – 395   Related - 394
Grade 11
Full year – 3 periods per day – 2 credits lab, 1 credit related
Dues: $30.00 SkillsUSA
Additional cost: work boots and shirts

The Automotive Technology lab is fully equipped with the most current electronic testing equipment, repair facilities and tools. The course includes electrical systems, fuel systems, brakes, engine theory and construction, cooling systems, suspension and steering systems, computerized diagnosis, tune-up, and lubrication systems. Students work on a variety of recent model automobiles selected to meet the instructional needs of the course. The curriculum, facility and instructor are ASE certified. Students need not have any prior experience in auto repair; however, a mechanical aptitude is helpful. Students are members of SkillsUSA and participate in related activities.

10 hours of OSHA industry certification is available.

This is a College Credit Plus class – If you are interested in receiving college credit, your parents should attend Findlay High School meetings to learn more about College Credit Plus and complete required paperwork. Contact your counselor to find out the dates and times of this meeting.

AUTOMOTIVE TECHNOLOGY II
Lab – 495   Related – 494
Grade 12
Full year – 3 periods per day – 2 credits lab, 1 credit related
Dues: $30.00 SkillsUSA
Additional cost: work boots and shirts

Prerequisite: Auto Technology I

The senior automotive technology program provides further instruction in Electrical Systems and Engine Performance/Diagnostics using the latest electronic diagnostic tools. Many Automotive Technology student graduates have used their training to enter into mechanical repair trades such as HD diesel and off-road diesel, Ag Diesel, Auto Body, and Aircraft maintenance. Other graduates choose to take advantage of the programs’ articulations with one of the many post-secondary schools for further training or degree. Students have the opportunity for early placement in a related field during the second semester of the senior year. Students are members of SkillsUSA and participate in related competitions and volunteering/social activities.

10 hours of OSHA industry certification is available.
TRANSITIONAL PROGRAMS

EMPLOYABILITY-565
Full year – 1 period per day, 1 credit
Grade 9
Fee: none

This program is designed to prepare students to become an asset in the world of work. Students participate in a structured work environment simulation. With training emphasis is on maintaining successful attitude and behaviors, understanding employer expectations, being responsible, job safety, team working skills, problem solving, decision making, communication and other core value development such as honesty, punctuality, perseverance and work ethic. The lab provides students with routine hands-on work experiences and other career exploration experiences. Students should be recommended by an intervention specialist, school counselor or principal.

MILLSTREAM CAREER EXPERIENCES-507
Full year – 1 period per day, 1 lab credit
Grade 10
Fee: $10.00

This program involves Career Exploration coursework in a variety of Millstream programs, completion of a Career Assessment and Evaluation, and the development of Employability Skills. Students should be recommended by an intervention specialist, school counselor or principal.

OCCUPATIONAL TRANSITIONS I & II-- specific OT application required
Level I  Related – 209, Lab – 210
Level II  Related – 109, Lab – 110
Full year – 3 periods per day – 2 credits lab
1 credit related
Grades 11, 12
Cost: none

The Occupational Transitions Program is designed to give students a combination of employability and skill training tailored to meet the student’s individual needs. The goal of this program is to transition students from the school setting to a working environment. Students will be encouraged and assisted in applying for services with agencies of their county residence to aid in this transition. Students will receive instruction in the following employability skill areas: communication in the workplace, staying on task and completing assignments, job etiquette, time and personal management, appearance and grooming, basic monetary transactions, and safety and sanitation. This program includes basic skill training including but not limited to: laundry, food, retail, custodial services and grounds keeping. Students will develop and practice their skills in-house, as well as at community-based sites as appropriate.
AGRICULTURE & ENVIRONMENTAL SYSTEMS CAREERS

Findlay High School students have the opportunity to take agricultural education classes at Liberty-Benton High School through the Millstream Career Technology Center. See your guidance counselor if you are interested.

Each student in the Agricultural Education program is required to have a plant, animal, research, or job placement Supervised Agricultural Experience (SAE) project in addition to an improvement/community service project. Each student is also a member of the National FFA Organization.

Agriculture classes are part of a College Tech Prep Program - Students successfully completing this program may receive advanced college credits through articulation agreements with select colleges and universities.

The Liberty Benton Course Selection Guide for 2017-2018 has not yet been published. Please consult their website at http://www.noacse.org/hancock/lb/ for the most up to date information. It is possible that the following courses may be offered:

Course: Agriculture, Food and Natural Resources (380)
Prerequisite: None
Credit: 1.25
Grades: 9, 10
Length: 1 year
Cost: Class Fee + $20 FFA Dues
Offered: Every Year

This is the first course in the Agricultural and Environmental Systems career field. It introduces students to the pathways that are offered in the Agricultural and Environmental Systems career field. As such, learners will obtain fundamental knowledge and skills in food science, natural resource management, animal science & management, plant & horticultural science, power technology and biotechnology. Students will be introduced to the FFA organization and begin development of their leadership ability.

Course: Plant and Horticultural Science (383)
Prerequisite: None
Credit: 1.25
Grades: 10, 11, 12
Cost: Class Fee + $20 FFA Dues
Offered: Every Year
Possible Articulated College Credit: Owens Community College

This first course in the pathway focuses on the broad knowledge and skills required to research, develop, produce and market agricultural, horticultural, and native plants and plant products. Students will apply principles and practices of plant physiology and anatomy, plant protection and health, reproductive biology in plants, influences in bioengineering, plant nutrition and disorders. Environmental aspects of irrigation, chemical application, soils, and pest management will be studied and applied. Projects and activities will enable students to develop communication, leadership, and business management skills.

Course: Animal Science and Technology (384)
Prerequisite: None
Credit: 1.25
Grades: 10, 11, 12
Length: 1 year
Cost: Class Fee + $20 FFA Dues
Offered: Even Years (was offered for 13-14)

Learners will develop business leadership, problem-solving and communication skills in relation to the science and technology of animals. Students will learn responsible animal management principles and routine husbandry practices in relation to animal welfare and behavior. Learners will identify and describe the anatomy and physiology of monogastric and ruminant organisms as it applies to nutrition, reproduction, and animal health. Learners will investigate animal genetics and how it impacts principles of animal improvement, selection and marketing.
Course: **Equine Science and Management** (388)
Prerequisite: None
Credit: 1.25
Grades: 10, 11, 12
Length: 1 year
Cost: Class Fee + $20 FFA Dues
Offered: Even Years

Learners are introduced to responsible equine management principals and routine husbandry practices in relation to equine behavior methodology and legal compliance. Learners will apply knowledge of health and nutrition when designing preventative health care plans, breeding plans, and feed management programs. Safe handling, grooming, training, equipment selection/maintenance/use and emergency care techniques are developed and applied. Learners will evaluate responsible stewardship practices and develop production management strategies that emphasize the industries goals through good reproductive decision-making.

Course: **Veterinary Science** (385)
Prerequisite: None
Credit: 1.25
Grades: 10, 11, 12
Length: 1 year
Cost: Class Fee + $20 FFA Dues
Offered: Odd Years  (was offered for 13-14)
Possible Articulated College Credit: Stautzenberger

Learners will develop knowledge of veterinary pharmacology, radiology and imaging techniques, principles of surgery, safe laboratory skills, and the concepts of ethics and professionalism in the work place. Learners will develop skills in inquiry and statistical methods. Learners will describe causes, symptoms, and treatment of common diseases with special emphasis on developing preventative health management plans and breeding programs. Learners will utilize principles of technology to manage information systems, and research issues affecting the industry.

Course: **Natural Resources** (389)
Prerequisite: None
Credit: 1.25
Grades: 10, 11, 12
Length: 1 year
Cost: Class Fee + $20 FFA Dues
Offered: Odd Years

Learners will apply science principles and management practices to the protection of renewable and non-renewable natural resources. Students will learn fundamentals of land use as well as watershed, wildlife, fishery and forest management. Students will be introduced to management practices related to managing air and water quality along with requirements for managing solid and liquid waste. Communications, business principles and leadership skill development are essential to the program.
Millstream Attendance Policy 2017-2018

In order to enhance the educational experience and employability skillset of students enrolled in Millstream Career Center programs, a new attendance policy has been established. The policy guidelines are listed below:

- Students shall miss no more than seven days per semester of program class time. Any absence after seven must be excused with a doctor’s note.

- Students who miss more than seven unexcused days per semester may be denied credit for the semester in their respective Millstream program.

- Students who miss more than seven unexcused days will be sent written notification of denied credit. Students will have a window of five days to submit an appeal for reinstatement of credit.

- An attendance review committee consisting of Millstream staff members shall hear an appeal by the affected student and/or parent.

- Students may receive credit if the review committee recommends that credit be reinstated. Credit may be earned back with various efforts such as make up time or work.

- An attendance award incentive may also accompany this attendance policy. Students who miss three or fewer days of their program class may receive an award based incentive.

Millstream Career Center cares deeply about students being successful. This policy is intended to enhance the learning experience.

Course Fees
Students are required to pay fees in most courses. The fee money is used to pay for materials and supplies used by the students. In some programs there are additional costs such as tool kits, uniforms, cosmetology kits which the students are expected to purchase. Students having a financial need should see their counselor at their home school or a Millstream administrator. All students who attend a Millstream program will be assessed an additional fee for technology costs of approximately $10. All questions regarding fees should be directed to the Millstream program teacher.

Testing Costs
Required tests are paid for by Millstream. However if students wish to take any optional tests the cost will be shared by both the student and Millstream. Students who do not pass certification or licensure test on the first attempt will incur the cost of subsequent testing.

Criteria for Student Selection into Millstream Programs
1. Academic record (state test scores and GPA)
2. Attendance
3. Recommendations by counselor and previous teachers
4. Recommendation by the selection committee
5. Recommendation of career assessment, if applicable
6. Successful completion of any prerequisites
7. Program visitation
8. Submission of completed application by deadline (February 1, 2017)

Complete an Application NOW at www.millstreamcc.org!

Equal Opportunity Institution
Millstream Career Center hereby gives notice that it does not discriminate on the basis of race, color, national origin, ancestry, sex, religion, disability/handicap, citizenship status or veteran status in its educational programs, activities, employment policies, or admission policies and practices, as required by law and provides equal access to the Boy Scouts and other designated youth groups. Findlay City Schools has a Section 504 and Title VI Officer and a Title IX Coordinator.
APPLICATION FOR ADMISSION

2017-2018

Complete this application and return to your counselor no later than February 1.

Student Information

Name (print): ____________________________________________

Last               First               Middle

Address: ____________________________________________

City                State              Zip

Date of Birth: __________/________/________

Month               Day                Year

Parent Email: ________________________________________

Social Security Number: _______ - _______ - _______

(Place a check mark in front of the parent(s) with whom you reside. Check one or both names.)

Mother/Guardian’s Name: ____________________________

Father/Guardian’s Name: ____________________________

Home School: ____________________________

Current Grade in School: ____________________________

Phone: (____) ____________________________

Gender: M      F

Work Number: (____) ____________________________

Work Number: (____) ____________________________

Career Education Choices

Check your choice for a program below.

If you would consider a second choice, please do so with a “2” next to that program.

CC+ Indicates the possibility of receiving college credit at Millstream Career Center

Arts, Communications & Information Technology

_____ Computer Networking & Support Technology CC+

_____ Programming & Software Development CC+

Business Administration

_____ Marketing CC+

_____ Office & Print Technologies

Construction

_____ Building & Grounds Maintenance

_____ Construction Skills

Engineering & Manufacturing

_____ Engineering & CAD Technology CC+

_____ Welding Technology

Health Science

_____ Medical Technology CC+

_____ Nurse Assisting (Senior Only Program) CC+

Human Services Cluster

_____ Cosmetology

_____ Culinary Arts CC+

_____ Early Childhood Education CC+

_____ Hospitality & Restaurant Services

Transportation

_____ Automotive Maintenance

_____ Automotive Technology CC+
Admission Agreement

Students will be considered for admission to Millstream Career Center on the basis of scholastic record, attendance, interest in career area, and counselor recommendation. *In addition, interested students must visit the program as a prerequisite to be admitted to any program. Failure to maintain acceptable grades and/or attendance during the second semester of 2016-2017, may lead to loss of a program choice.

COMMITMENT: I understand that if accepted into a Millstream program I am making a commitment to complete the program. In the event I change my mind I will notify Millstream, in writing, prior to June 1, 2017. After that time, I agree to attend the program for a minimum period of 1 week at the start of school in the Fall before transferring. In addition, I also agree to adhere to the Millstream Attendance Policy included with the application.

If you are applying for a program with College Credit Plus (CC+) opportunities, be sure to see your home school counselor for your school’s CC+ parent meeting date and time. You will need to attend that meeting.

_________________________  ______________________
Signature of Student            Date

As a parent/guardian, I have reviewed this application and support my son’s/daughter’s commitment to attend Millstream Career Center. I agree to adhere to the commitments for acceptance and attendance.

_________________________  ______________________
Signature of Parent or Guardian Date

Why are you choosing a Millstream Career Center Program?
_________________________________________________

_________________________________________________

_________________________________________________

_________________________________________________

_________________________________________________

_________________________________________________

Academic Information Provided by School Counselor

Student Name: ________________________________

Last    First    Middle

Credits: Is this student on track for graduation? ______Yes ______No

If not, what credits are needed? ______________________________________________________________________

Attendance: Last year’s absences: __________________________

Current year’s absences: __________________________

Did the Student Complete a Career Assessment? ______Yes ______No Date ______________

Comments: ________________________________________________________________

______________________________________________________________________________

Attach an additional statement if you wish.

______________________________________________________________________________

_________________________  ______________________
Signature of Counselor            Date

PLEASE SEND A TRANSCRIPT AFTER COMPLETION OF THE FIRST SEMESTER

Millstream Career Center does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups.