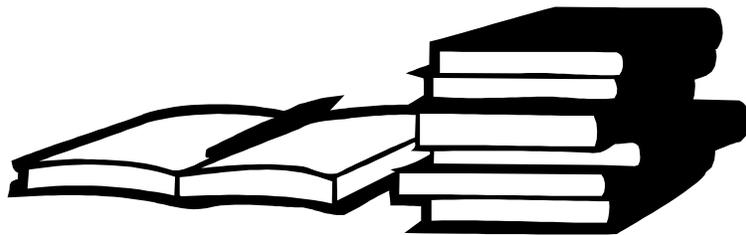


Shelby High School

2018 - 2019 Course Selections & Curriculum Guide



February 2018

This Course Description Book is a valuable resource in helping students and parents select courses while enrolled at Shelby High School. Choosing the correct courses to prepare students for life after high school can be challenging. I encourage you to work with guidance counselors, teachers and administrators throughout this process.

It is becoming increasingly difficult for students to choose a career path after high school. Technological advances, new research and an ever changing job market have changed how students choose a future career path. It has been stated many times that students who graduate from high school now will take a job in the future that does not currently exist. It is extremely important for our high school graduates to be well-rounded and able to adapt to many situations. A strong focus is now placed on developing critical thinking and problem solving skills as well as content knowledge. Shelby High School continuously reviews course offerings and makes any changes necessary to help prepare our students.

I strongly encourage students and parents to look through this booklet during the scheduling process. Completing the four year educational plan will help students begin to formulate a plan for both high school and a college or career. This booklet also outlines many of our policies regarding graduation, grading and the scheduling process.

It is important that students return the schedule request forms by the deadline. This will allow us to determine the number of sections to offer and to set the master schedule. I urge students to ask a counselor, teacher or administrator if they have any questions about scheduling or advice on what courses to take.

Go Whippets!

John Gies

SHS Principal

**Fees listed are subject to change for
school year 2018-19**

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Shelby High School

One Whippet Way
Shelby, Ohio 44875

Phone- 419-342-5065

Fax- 419-342-5095

School Counselor- Edie Lerback
School Counselor- Bobbi Weaver
Guidance Secretary- Pam Barker

Graduation Requirements

Graduation Requirements for the Class of 2019 & Beyond include:

1. Earn 21 credits- see the chart for the list of required courses
2. Take seven End of Course Exams – English I and II, Algebra I, Geometry, American History, American Government and Biology
3. Meet one of three options

A. Earn 18 points on the **End of Course Exams**

Students will earn a score of 1-5 on each exam. They must earn at least 4 points from English, 4 points from math and 6 points from science and social studies exams.

B. Earn a college readiness score on the ACT (English 18; Reading 22; Math 22)

All members of the class will take the ACT during their junior year. There is no cost to students or parents for this test.

C. Earn certification in a skill and a passing score on a WorkKeys exam

The Ohio Department of Education is compiling a list of skills that students can use to meet the third option. This option would generally apply to a student who is enrolled in certain programs at Pioneer Career and Technology Center.

Academic Planning

| Graduation Requirements | |
|-------------------------|-------------------|
| English Language Arts | 4 credits |
| Mathematics | 4 credits |
| Science | 3 credits |
| Social Studies | 3 credits |
| Health | ½ credits |
| Physical Education | ½ credits * |
| Electives | 6 credits |
| Total | 21 credits |

English Language Arts- English 1, 2, 3, 4, English 1010 and English 1030 can be used to meet this requirement.

Mathematics- must include Algebra II or its equivalent.

Science- must include one credit of physical science, one credit of life science and one unit of advanced study in one or more of the following sciences: Chemistry, physics or other physical science, advanced biology or other life science such as astronomy, physical geology or other earth or space science.

Social Studies- must include American History and American Government. Starting with the Class of 2019, World History is also a required course. There is also a personal finance requirement that is met through the American Government class.

Physical Education- The Shelby City Schools have adopted a policy that allows students to waive the P.E. requirement if they complete two full seasons of interscholastic athletics, marching band or cheerleading. A physical education waiver must be completed and approved through the Guidance Office. No P.E. credits are issued if the student chooses to waive the class. However, the P.E. waiver does meet graduation requirements.

Fine Arts- Band, choir or art are included in the fine arts requirement with students completing at least two semesters anytime in grades 7-12. Those following a career-tech pathway are exempt from this requirement. If a student completes the requirement in middle school they will not receive high school credit for the course.

Course Scheduling Process

Each spring the Guidance department will meet with each class to discuss the scheduling process. Students will be given a form to indicate which courses they would like to take for the next school year. Counselors will then meet with each student individually to discuss an appropriate schedule. If a student wishes to request a schedule change after meeting with their counselor, he/she may do that until the "Change of Mind" deadline (**May 4th**) without questions. After the deadline, students must complete a form which includes the student's name, course (s) to add and/or drop. Schedule changes are discouraged and requests for schedule changes will be given close scrutiny. All changes must be approved by the counselors.

It is our policy to limit specific teacher requests by students and parents. If you feel there is an adequate reason for requesting a teacher, please schedule an appointment with the principal before May 1st. As always, we appreciate the trust that you place in us in making the best placement for your child, as we consider all of the educational factors in each child's best interests. No request is necessarily guaranteed, as we consider many factors in placing each child in a classroom.

Scheduling Options

Flexible Credit Options: Shelby High School does have a flexible credit option for students. This option would allow students to earn credits for a course based on an educational plan instead of sitting in the classroom. This option requires the student and parent to create an educational plan, which must then be approved by the principal. If you are interested in this option please contact the principal or school counselor.

Credit Recovery: It is possible for a student to earn credit for a course after they have taken the traditional course and failed. There are different ways for a student to recover credits, with the on-line option being the most popular. The school counselor will address this option with students on an individual basis. Contact the principal or school counselor if you have questions about this option.

Repeating a Subject: Credit for a specific course will be granted only once. A student may repeat a subject in order to improve their grade. When repeating a course for credit, the grade earned upon repeating the course will replace the original grade. This option is only available to a student earning a 'C' or lower in a course.

Independent Study: Seniors desiring to expand their learning beyond the traditional classes offered may arrange to complete an independent study with a teacher. The following criteria apply:

- Student must have a 3.0 cumulative GPA.
- Independent study must be scheduled within the first five days of the semester.
- Independent study can only be arranged with the teacher during the academic year in which the independent study will take place. A student cannot request independent study during the scheduling process.
- A student can only schedule one independent study per semester.
- A student is limited to two independent study credits during high school.

Summer School: In the past, Shelby High School has not offered courses over the summer; students have taken classes at PCTC or other local schools. There are many factors school districts must consider when deciding to offer summer school courses. The SHS Guidance Department is made aware of summer school opportunities in April or May, please contact them before enrolling in a summer school course.

Incomplete Policy: An Incomplete (I) may be given under certain situations in lieu of a grade when a student does not complete the requirements of the course. The student must make arrangements with the teacher to fulfill those requirements. Teachers must submit final grades for each student upon completion of the course, or indicate to the principal what arrangements have been made to remove the incomplete. As the need arises, accommodations for individual situations shall be made by the building principal. Each student has two weeks after the last day of the grading period to fulfill the requirements of the course, upon returning from an extended absence (three days or more). Any work not made up will be recorded as failing. Exceptions to this policy must be approved by the principal.

Transfer Students: Transfer student's credits will be evaluated on an individual basis as to how their former curriculum corresponds to Shelby's curriculum and requirements.

Early Graduation: Students who wish to graduate early must apply prior to the beginning of the student's junior year (or senior year for students completing requirements at the end of the first term of the senior year). A conference will then be held with the student, parent, counselor and principal. The Board of Education will make the final decision on an individual basis.

Graduation with Honors: Shelby High School does recognize a Valedictorian. In addition, the Shelby Board of Education recognizes students as "HONOR GRADUATES, students with a cumulative weighted grade point average of at least 3.50 will receive a gold cords; students with a weighted grade point average of a 4.0 or higher will also receive a white stole.

Weighted Courses

Shelby High School offers a number of weighted courses that are more rigorous than traditional course offerings. To reward students for taking these courses, an add-on GPA system is used. For every weighted course a student earns a grade of C or higher, we will add .05 to their cumulative GPA.

There are different categories of weighted courses, broken down as follows:

- **Advanced Placement Courses**
 - AP courses are taught at a freshmen college course level
 - There are additional courses that are pre-requisites to AP courses
 - Students will be required to take the AP Exam
 - Courses:
 - AP Biology
 - AP English Literature and Composition
 - AP Government
 - AP Calculus

- **College Credit Plus Courses**
 - Students in these courses earn both high school and college credit
 - Only English, math, science and social studies CCP courses are weighted. Courses in other subject areas, such as business or social work, are not weighted.
 - Students must meet all requirements to be accepted into the college to be awarded college credit (certain score on ACT, Compass test score)
 - College credit earned is the decision of the post-secondary institution offering the course
 - CCP courses offered at SHS:
 - Anatomy and Physiology I
 - Anatomy and Physiology II
 - Calculus I
 - Advanced Biology
 - AP Biology
 - English 1010
 - English 1030

- **Other Weighted Courses**
 - Some courses require an application and students are selected by the teacher(s)
 - Courses:
 - Honors English I, II, III, IV
 - Physics
 - Contemporary World Issues
 - Honors Chemistry
 - Algebra II Trigonometry
 - Pre-Calculus

Grading Scales

All SHS courses use the following grading scale:

| | |
|--------------|---|
| 90-100 | A |
| 80-89 | B |
| 70-79 | C |
| 60-69 | D |
| 59 and below | F |

There are some differences in the grading scale North Central State College uses in their CCP courses. The teacher will discuss these changes at the start of the course.

Calculating Quarter and Final Grades

To compute the final grade for a one semester course the following formula is used:

$$2 \times \text{first quarter \%} + 2 \times \text{second quarter \%} + \text{final exam \%} = X$$

$$X/5 = \text{final grade \%}$$

For example:

- The student earns a 78% first quarter, 85% second quarter and a 94% on the final exam.
- $(78 \times 2) + (85 \times 2) + 94 = 84\%$ -- the student would earn a B for the course.

To compute the final grade for a year long course, we first calculate the semester average for both semesters. The following formula is used:

$$\text{First quarter \%} + \text{second quarter \%} = X$$

$$X/2 = \text{semester \%}$$

We then calculate the final grade using the following formula:

$$2 \times \text{semester 1\%} + 2 \times \text{semester 2\%} + \text{final exam \%} = X$$

$$X/5 = \text{final grade \%}$$

Calculating Grade Point Average (GPA)

We use weighted GPA for the Honor Roll and a non-weighted GPA for calculating the cumulative GPA.

- **Honor Roll** – we use the grade earned each quarter to determine the Honor Roll. There are three levels for the Honor Roll: 4.0 or higher, 3.5-3.99 and 3.0-3.49. Students who earn a 3.5 or higher are awarded a Red Card and those who earn 3.0-3.49 are awarded a Gray Card. The red and Gray Cards allow students to gain entrance to certain school events at a discounted rate. To calculate the GPA for the Honor Roll, the following formula is used:
 - Regular courses—A=4, B=3, C=2, D=1, F=0
 - Weighted courses—A=5, B=4, C=3, D=1, F=0
 - Add the numeric value of each letter grade earned and divide by the number of credits attempted.
 - Example 1: A student earns grades of A, A, B and C in all regular courses. The numeric values are 4, 4, 3 and 2. The total is 13, which is divided by 4 for a GPA of 3.25.
 - Example 2: A student earns weighted grades of A, B and A and a regular grade of B. The numeric values are 5, 4, 5 and 3. The total is 17, which is divided by 4 for a GPA of 4.25.
- **Cumulative GPA**
 - A student's cumulative GPA is calculated using the non-weighted GPA. Students are rewarded for taking more advanced courses by the use of a GPA add-on system. For every weighted course we add .05 to the cumulative GPA. For instance, a student with a 3.8 unweighted GPA and who takes five weighted courses in high school will have .25 added to their GPA, making their cumulative GPA 4.05.

Students who do not meet all curriculum requirements
will not be permitted to take part in the
Graduation ceremony.

The student will be awarded their diploma upon
completion of all curriculum requirements and

successfully passing any required state assessments.

College Credit Plus

Eligible high school students can take a course and earn high school and college credit that appears on both their high school and college transcripts. All courses offered through CCP must be the same course that the college offers and the course must apply to a degree or professional certificate. The goal of CCP is to increase the number of high school students who are college- and career-ready. The program increases the opportunity for high school students to earn college credit while in high school.

Students enrolled in a CCP course may take the course at SHS or at a local public college. There is no cost for fees or books to the student for taking courses at a public college. There may be costs incurred if a student chooses to attend a private college. The courses a student takes through the CCP program count toward the student's high school GPA.

North Central State College courses that are offered at Shelby High School include:

- Anatomy and Physiology I = Biol 2751
- Anatomy and Physiology II = Biol 2752
- Calculus = Math 1150
- Advanced Biology = Biol 1230
- AP Biology = Biol 1231
- English 1010
- English 1030

The North Central State College website (www.ncstatecollege.edu) lists all of the courses that are available through the CCP program. For example, listed below are the courses in the Business Pathway that a student could take to earn at least 15 and 30 hours in one year:

| Course | Course Title | Credits | | Course | Course Title | Credits |
|-----------|------------------------------------|-----------|--|-----------|------------------------|-----------|
| ENGL 1010 | English Composition I | 3 | | ENGL 1030 | English Composition II | 3 |
| MATH 1130 | Trigonometry | 4 | | MATH 1150 | Calculus I | 5 |
| HIST 1010 | American Culture & History to 1877 | 3 | | BUSM 1150 | Marketing | 3 |
| ECON 1510 | Microeconomics | 3 | | ECON 2510 | Macroeconomics | 3 |
| BUSM 1110 | Business Law | 3 | | | | |
| | Total Credits | 16 | | | Total Credits | 14 |

Schedule Changes

- Once all student schedule requests are entered into the computer the master schedule is created. Students are then assigned to courses and schedules are distributed before summer break.
- Students having questions or needing to make adjustments to their schedules are expected to talk to a guidance counselor prior to the start of school.
- Once school is in session, students are expected to follow their schedule until they meet with a counselor.
- Drop/Adds to schedule for a semester or all-year course must be made within the first ten days of the class. Any drops after the tenth day will result in a **Withdraw Fail**, be listed on the student's permanent transcript, but not affect the student's GPA.
- Drop/Adds to the schedule for a quarter-length course must be made within the first five days of the class. Any drops after the fifth day will result in a **Withdraw Fail**, will be listed on the student's permanent transcript, but not affect the student's GPA.
- Seniors who change their schedule in order to have a first or fourth block study hall will be required to attend study hall for the first quarter of the semester.
- Allowable schedule changes:
 - Schedule conflicts/errors
 - Educational reasons, such as credit deficiencies or required courses needed.

- Changes due to completion of summer school courses
- Changes that are in the long-range academic best interest of students will be considered with a consultation among student, parent, teacher, counselor and/or principal.

SHS Academic Letter

To be eligible to earn a Shelby High School academic letter, students must meet the following criteria:

Freshman & Sophomores:

Minimum 3.75 weighted GPA for the school year and a minimum of 10 points from the list of approved activities.

Juniors & Seniors:

Minimum 3.8 weighted GPA and a minimum of 20 points from the list of approved activities.

Approved activities and the point value for each activity (students must be actively involved members of the activity in good standing and maintain that involvement and standing through the completion of the activity/season). Points are determined at the end of the 3rd marking period.

Involvement as described above in each activity listed below is 5 points. (Involvement in one or more athletic team/cheerleading squad is 5 points total for each school year).

| | | |
|--------------------|---------------|-----------------|
| Academic Challenge | FCCLA | Math League |
| Athletic Team | FFA | Student Council |
| Campus Life | GOLD | Whippet Elite |
| Choir | Interact | Writing Club |
| Drama Club | Marching Band | Yearbook |

*Similar Pioneer activities/groups/clubs or other PCTC activities approved by the HS Principal.

*Other involvement in school, civic and/or religious oriented activities/groups/clubs approved by the HS Principal.

Examples may include: 4-H CLUB, BOY SCOUTS OF AMERICA, GIRL SCOUTS OF AMERICA,
CHURCH YOUTH GROUP

Please note: the above examples must be approved prior to the deadline date and must include a statement of participation signed by your club advisor.

College Visits

We believe that visiting campuses is a vital part of the college selection process, and we encourage students to visit colleges in which they are interested. Many colleges offer visitation days on Saturdays or visits can be made during the week.

Athletic Eligibility

Those students participating in athletics (including cheerleading) must meet the academic requirements that have been established by the Ohio High School Athletic Association (OHSAA). Students who wish to participate in athletics must earn at least a 1.0 GPA and pass the equivalent of 5 credits each quarter. Students who are enrolled in CCP must check with the principal in order to ensure they are enrolled in enough classes to meet the 5 credit requirement. In order to protect eligibility, we encourage students who intend to participate in athletics to sign up for four classes each semester. It is the responsibility of the student athlete to maintain eligibility.

There are many other rules and regulations that have been established by OHSAA regarding student eligibility. Parents and students who wish to be involved in athletics must attend a yearly informational meeting. The agenda for this meeting is established by OHSAA and is a requirement of participation. More information on athletics can be found at the OHSAA website at www.ohsaa.org.

Disclaimer- All of the listed information was accurate at the printing of this booklet. The Ohio General Assembly and the Ohio Department of Education continue to review new policies regarding student testing and graduation.

We will keep you updated through parent newsletters.

Honor's Diploma

Students must meet all, or all but one, of the criteria to qualify for an Honors Diploma.
To meet the one unit of fine arts requirement, the course must be taken while in high school.

Diploma with Honors requirements assume the completion of all high school diploma requirements in the Ohio Revised Code including: ½ unit physical education (unless exempted), ½ unit health, ½ unit in American history, ½ unit in government.

- 1) Writing sections of either standardized test should not be included in the calculation of this score. The Locating Information test is not included in the calculation of the WorkKeys score.
- 2) Advanced science refers to courses that are inquiry-based with laboratory experiences and align with the 11/12th grade standards (or above) or with an AP science course, or with an entry-level college course (clearly preparing students for a college freshman-level science class, such as anatomy, botany, or astronomy).
- 3) Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post-secondary credit.
- 4) The fifth mathematics and science credit for the STEM honors diploma may be fulfilled with a single course.
- 5) Field Experience refers to experiential learning in either an internship or apprenticeship. Students will document their experiences by describing their understanding in a portfolio.
- 6) The student portfolio is a collection of experiential learning and competencies based on the student's field experiences. Students will engage with professionals or scholars in the field while developing their own portfolio or ePortfolio of original work that documents their technical, critical and creative skills representative of their honors focus; students' work must be reviewed and evaluated by scholars or professionals within the field/area of study in which the students' work is focused, and the scholars or professionals must be external to the district staff; students will give a presentation to showcase the work and provide an analysis of it to the school and local community. If the student does not complete a field experience, the portfolio can be based on a collection of work related to the student's honors diploma area of focus.
- 7) Students must score a minimum of a 6 on the Math WorkKeys Assessment and a minimum of 6 on the Reading WorkKeys Assessment in order to meet the WorkKeys score requirement. The WorkKeys option applies only to the Career Tech Honors Diploma.
- 8) These scores are based on the 2016 ACT and SAT assessments. ODE will publish a concordance document outlining equivalent scores for past and future tests that differ from the 2016 versions.

Guidance Department Four Year Educational Plan

Attention: This educational plan gives you and your parents an opportunity to focus on the many courses that are available to you. This is a FLEXIBLE plan and MAY be changed from year to year.

NAME: _____

CAREER GOAL: _____

DATE: _____

GRADUATION DATE: _____

Type of Diploma Being Pursued: Regular Honors (Please Check One)

| 9 th Grade | | 10 th Grade | |
|------------------------|--------|-------------------------|--------|
| COURSE | CREDIT | COURSE | CREDIT |
| English I | 1.0 | American History | 1.0 |
| Math | 1.0 | Math | 1.0 |
| Physical Science | 1.0 | Biology | 1.0 |
| Modern World History | 1.0 | Physical Education* | .25 |
| Physical Education* | .25 | Health | .50 |
| | | English II | 1.0 |
| | | | |
| | | | |
| | | | |
| TOTAL | | TOTAL | |
| 11 th Grade | | 12 th Grade | |
| COURSE | CREDIT | COURSE | CREDIT |
| English | 1.0 | English | 1.0 |
| Math | 1.0 | Government/Economics | 1.0 |
| Chemistry | 1.0 | Math (Alg II or beyond) | 1.0 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| TOTAL | | TOTAL | |

*A student may waive the physical education requirement for graduation through participation

in **two** seasons of sports, cheerleading or marching band.

SHS Physical Education Graduation Requirement Waiver Application

(available at: www.shelbyk12.org/shs/guidance)

In January of 2007 the Ohio Legislature passed Senate Bill 311 Provision (L). Sec. 3313.603 (L) reads:

Notwithstanding anything to the contrary in this section, the board of education of each school district and the governing authority of each chartered nonpublic school may adopt a policy to excuse from the high school physical education requirement each student who, during high school, has participated in interscholastic athletics, marching band, or cheerleading for at least two full seasons. If the board or authority adopts such a policy, the board or authority shall not require the student to complete any physical education course as a condition to graduate. However, the student shall be required to complete one-half unit, consisting of at least sixty hours of instruction, in another course of study.

A Shelby High School student **may** waive the PE graduation requirement by participating in two of any combination of the following activities:

- A complete season as an athlete of any Shelby High School OHSAA recognized sport.
- A complete season as a Shelby High School cheerleader.
- A complete season as a member of the Shelby Whippet Marching Band.

Student must complete two complete seasons for the waiver. Completion of one season does not partially waive the PE requirement.

The waiver provides no actual credits. Students must complete an additional half-credit to meet the 21-credit graduation requirement. The PE waiver may not be transferable to another school district.

Student Name _____

Expected Graduation Year _____

Sport/Activity _____ Year _____

Office Use. Do not complete.

Verification _____ Date _____

Sport/Activity _____ Year _____

Office Use. Do not complete.

Verification _____ Date _____

Student Signature _____ Date _____

Parent Signature _____ Date _____

Return to HS Athletic Director or HS Band Director
AFTER completion of both activities.

2017-18 SHS Academic Letter Application

Name: _____ Grade: _____

| If you are a: | Your GPA must be: | Points needed: |
|--------------------|-------------------|----------------|
| Freshman/Sophomore | 3.75 | 10 |
| Junior/Senior | 3.75 | 20 |

Involvement in any of the clubs below: 5 points

| | | |
|--------------------|---------------|-----------------|
| Academic Challenge | FCCLA | Math League |
| Athletic Team | FFA | Student Council |
| Campus Life | GOLD | Writing Club |
| Choir | Interact | Yearbook |
| Drama Club | Marching Band | |

*Similar Pioneer activities/groups/clubs or other PCTC activities approved by the HS Principal.

*Other involvement in school, civic and/or religious oriented activities/groups/clubs approved by the HS Principal.

Example: 4-H CLUB, BOY SCOUTS OF AMERICA, GIRL SCOUTS OF AMERICA, CHURCH YOUTH GROUP.

Please note: the above examples must be approved prior to the deadline date and must include a statement of participation signed by your club advisor.

LIST THE CLUB OR ACTIVITY YOU HAVE PARTICIPATED IN BELOW:

| Name of Club Advisor | Signature | Points |
|----------------------|-----------|--------|
|----------------------|-----------|--------|

| | | |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

**Applications are due March 29, 2018 by 3:00 p.m. in the Guidance Office.
We will NOT accept late applications! Thank you for your help in this matter!**

Agriculture Education Courses

Agriculture Education establishes the basic foundation of agriculture tasks necessary for the application of a career in the agricultural industry (not specifically farming).

3820 AGRI-SCIENCE I Dues \$13 1 CREDIT-1st Sem.; 1 CREDIT-2nd Sem

Goals:

- To develop understanding, abilities, and skills in production agriculture.
- To provide activities to develop leadership abilities in agriculture.
- To give the student the opportunity to "learn by doing."

Major areas covered: FFA; Soils – Conservation; Woodworking – Safety - 12-weeks laboratory; Computerized recordkeeping; Livestock production; Parliamentary procedure; Tractor certification; Agricultural occupations

4820 AGRI-SCIENCE II Dues \$13 1 CREDIT-1st Sem.; 1 CREDIT-2nd Sem.

PREREQUISITE: AGRICULTURE I (IF POSSIBLE)

SAME GOALS AS AGRI-SCIENCE I

Plant science (the production of crop products) includes subject matter and learning activities which are concerned with the principles, concepts and processes involved in the planning related to and the economic use of facilities, land, machinery, chemicals, finance, and labor in the production of plant products. In practice, activities include classroom instruction, laboratory experiences, and supervised occupational experiences in and out of school, including farms and other agriculturally related establishments.

5820 AGRI-SCIENCE III Dues \$13 1 CREDIT-1st Sem.; 1 CREDIT-2nd Sem.

PREREQUISITE: 11 OR 12 & AGRICULTURE II (IF POSSIBLE)

SAME GOALS AS AGRI-SCIENCE I & II

Agriculture mechanics includes the selection, operation, repair, adjustments, and the economic use of agriculture machinery. Farm construction and conservation work, as well as farm safety is taught. This class is combined with Ag. IV and has alternating curriculums. Computer management techniques are utilized.

6820 AGRI-SCIENCE IV Dues \$13 1 CREDIT-1st Sem.; 1 CREDIT-2nd Sem.

PREREQUISITE: 12 & AGRICULTURE III (IF POSSIBLE)

This course covers such topics as farm business management, marketing, agricultural taxes, computer training, leadership training, and laboratory work in small engines and mechanics. Students also receive practice in metal and woodworking areas according to their abilities. Ag. IV students also manage the 55-acre land laboratory located on State Street Road.

Art Courses

3610 INTRODUCTION TO ART

Fee \$40

1 CREDIT

Art I serves the aim of personal development by providing individuals with the opportunity to acquire and develop their powers of expression by visual means. The development of the students' imagination will be the basic concept. Discovering ideas by experimenting with various materials. Studio production activities will be stressed, with emphasis on fundamental 2D & 3D design through introductory drawing, painting, ceramics and sculpture.

TWO-DIMENSIONAL ART COURSES:

4610 2D DESIGN

Fee \$40

1 CREDIT

PREREQUISITE: INTRO TO ART

2D DESIGN is a personal development course with emphasis on technique and craftsmanship. A wider range of 2D materials and subject matter will be incorporated into the program. 2D DESIGN will continue to build on the basic elements and principles of design. The students will be exposed to Art History but, again, studio activities will remain a primary focus, with emphasis on drawing, painting, graphic design & printmaking.

5610 2D STUDIO

Fee \$40

1 CREDIT

PREREQUISITE: GRADE OF B OR BETTER IN 2D DESIGN

Students have developed their interest in art and are working toward higher level skill development. Personal development and expressions will be the basic goal of 2D STUDIO. Concepts of design will still be studied but the students will be allowed more freedom in the selection of 2D media, artistic approach and subject matter. Studio activities will be the basis of the class with craftsmanship of utmost importance. Emphasis will be on the individual's 2D focus and self-expression.

6610 ADVANCED 2D

Fee \$40

1 CREDIT

PREREQUISITE: INTRO TO ART

Students are highly motivated and working toward high level skill development and expression or possibly a career in art. This course will build upon previous individual experience with emphasis on continued skill development and exploration with their chosen focus.

THREE-DIMENSIONAL ART COURSES:

4620 3D DESIGN

Fee \$40

1 CREDIT

PREREQUISITE: INTRO TO ART

3D DESIGN is a personal development course with emphasis on technique and craftsmanship. A wider range of 3D materials and subject matter will be incorporated into the program. 3D DESIGN will continue to build on the basic elements and principles of design. The students will be exposed to Art History but, again, studio activities will remain a primary focus, with emphasis on sculpture techniques, ceramics, metal, wire & various processes such as carving and modeling.

5620 3D STUDIO

Fee \$40

1 CREDIT

PREREQUISITE: GRADE OF B OR BETTER IN 3D DESIGN

Students have developed their interest in art and are working toward higher level skill development. Personal development and expressions will be the basic goal of 3D STUDIO. Concepts of design will still be studied but the students will be allowed more freedom in the selection of 3D media, artistic approach and subject matter. Studio activities will be the basis of the class with craftsmanship of utmost importance. Emphasis will be on the the individual's 3D focus and self-expression.

6620 ADVANCED 3D

Fee \$40

1 CREDIT

PREREQUISITE: GRADE OF B OR BETTER IN 3D DESIGN

Students are highly motivated and working toward high level skill development and expression or possibly a career in art. This course will build upon previous individual experience with emphasis on continued skill development and exploration with their chosen focus.

Computer Gaming (Zulama) Software

2200 EVOLUTION OF GAMES

½ CREDIT/1 QTR

Students learn how professional game designers utilize dynamics from ancient games in today's blockbuster hits by studying and playing the games of Babylon, Egypt, Rome, Europe and India.

2210 GAMEMAKER PROGRAMMING

1 CREDIT

PREREQUISITE: EVOLUTION OF GAMES

This hands-on course covers basic programming concepts. Students learn how to code games using GameMaker.

2230 SCREENWRITING

½ CREDIT/1 QTR

PREREQUISITE: EVOLUTION OF GAMES

Students learn about storytelling techniques used in games, movies, and popular media and apply those techniques to their own original screenplays.

2250 3D Modeling

1 CREDIT

PREREQUISITE: EVOLUTION OF GAMES

Students learn about and practice the highly skilled art of 3D modeling.

2240 MOBILE GAME DESIGN

½ CREDIT/1 QTR PREREQUISITE:

EVOLUTION OF GAMES

In this fun, hands-on, project-based course, students use free GameSalad software to create games that can be played in iOS or Android devices.

English Courses

3112 ENGLISH I

1 CREDIT

Students in English I study fiction and non-fiction literature including poetry, drama and an introduction to Shakespeare. Students are introduced to narrative, expository, descriptive and persuasive writing. Students must also complete a research project using the MLA format to receive course credit. Students are introduced to sentence structure and parts of speech in the context of the writing process, reinforcing the mechanics of standard English including grammar, usage, spelling, punctuation and capitalization. Students will have the option to earn Honors credit.

3114 ENGLISH 1 HONORS

1 CREDIT

PREREQUISITE: RECOMMENDATION OF MOST RECENT ENG TEACHER

The Honors level of English I is for those students who possess a high level of interest and competence in English. The emphasis in this course will be on the development of higher level writing skills and the use of more complex texts.

4112 ENGLISH II

1 CREDIT

PREREQUISITE: ENGLISH I

The goals for English II students are to become better readers, writers, and communicators through close reading and analysis of a variety of complex texts and argumentative, narrative, and expository writing; to use a variety of multimodal literature, including novels, plays, film and graphic novels, to develop a more compassionate perspective on society; to support all opinions and ideas with factual evidence; and to begin a lifelong appreciation for reading writing. An emphasis on fact-based commentary will be placed on students' writing and will culminate in a research paper required for course credit.

4114 ENGLISH II HONORS

1 CREDIT

PREREQUISITE: RECOMMENDATION OF MOST RECENT ENG TEACHER

English II Honors is for students who possess a high level of interest and competence in English. The goals for this class are to become better readers, writers and communicators through highly rigorous close readings and analysis of a variety of complex texts and argumentative, narrative and expository writing; to use a variety of multimodal literature, including novels, plays film and graphic novels, to develop a more compassionate perspective on society and to challenge students' current positions on a variety of modern social issues; to support all opinions and ideas with factual evidence; and to develop a lifelong appreciation for reading and writing. Special emphasis on ACT and SAT vocabulary, intensive grammar reviews, and fact-based commentary will be placed on students' writing and will culminate in a research paper required for course credit.

5112 ENGLISH III

1 CREDIT

PREREQUISITE: English II

English III consists of a review of the disciplines of grammar and rhetoric for the purpose of achieving more effective communications. Concentration in literature focuses on American writers from the Colonial period to the present day. This course is required and provides a well-rounded program of American literature, vocabulary study, and intensive study in the writing process. A variety of readings expose the student to the many different types of literature, so that the student can learn to identify, to evaluate, and to distinguish good reading material. Through practice, the student learns the techniques for effective writing expression. Vocabulary study also encourages improvement in written communication.

5120 ENGLISH III HONORS

1 CREDIT

A course for juniors, English III-H is designed to provide those students with high capability and interest, the opportunity to fine-tune composition skills, increase vocabulary for college testing, clarify fine points in grammar, and experience a greater range and depth of literary study than provided by the regular sequence of English courses. Students will be given the opportunity to prepare for Advanced Placement tests if the student chooses. Grammar and composition will concentrate on formal essay techniques and appropriate research strategies. Concentration in literature will focus on American writers from the Colonial period to the present day.

6112 ENGLISH IV

1 CREDIT

PREREQUISITE: English III

English IV concentrates on refining the various skills acquired by the student in the preceding three years of the English program. This course is designed primarily for the college-bound student and will focus on acquisition and development of skills needed for success in post-high school education. Thus, study of particular skills such as critical reading and thinking, effective communication, and vocabulary development will continue to be stressed. In literature the objective will be to develop an awareness and appreciation for our cultural heritage through the study of representative selections from each literary period and genre (poetry, drama, novel, etc.) of British and world literature in historical context. The composition program emphasizes research and the use of the writing process to produce compositions that focus on ideas, organization, structure, and fluency.

6115 ENGLISH IV HONORS

1 CREDIT

PREREQUISITE: English 1010

English IV Honors builds on the skills developed in English 1010. This course furthers the development of expository writing and critical reading skills. Students read a variety of nonfiction works and write summaries, analysis, and essays in response to their reading. A limited number of fiction texts may be included. Students further develop their ability to read actively and accurately and to organize, develop, and revise coherent papers appropriate for college-educated audiences. (Students who have taken English III and are recommended by the instructor will also be eligible for this course.)

5114 ENGLISH I010-ENGLISH COMPOSITION I

1 CREDIT-SHS

3 SEMESTER NCSC ENGLISH CREDIT

PREREQUISITE: ACCUPLACER SENTENCE SKILLS SCORE OF 88 OR ABOVE OR ACT ENGLISH MINIMUM SCORE OF 18; AND ACCUPLACER READING MINIMUM SCORE OF 80 OR ACT READING MINIMUM SCORE OF 21

This is a basic course in expository writing and critical reading. Students read a variety of nonfiction works and write summaries, analysis, essays, and a researched argument in response to their reading. Students learn to read actively and accurately and to organize, develop, and revise coherent papers appropriate for college-educated audience.

6114 ENGLISH I030-ENGLISH COMPOSITION II

1 CREDIT-SHS

3 SEMESTER NCSC ENGLISH CREDIT

PREREQUISITE: ENGL-1010 WITH A MINIMUM GRADE OF C- OR BETTER

This is a course in argument and research writing. Students read issue-based works and write summaries, responses, and an argument and research paper. Students learn to organize research projects, find and evaluate sources, incorporate ideas and quotations from sources, document their sources in MLA and APA style, analyze and use argumentative strategies and persuasive appeals, and prepare and revise effective coherent papers.

7114 AP ENGLISH LITERATURE & COMPOSITION

1 CREDIT

PREREQUISITE: ENGLISH 1010

Designed to be a college level course, rich in higher level thinking, AP English Literature and Composition will challenge, inspire, and enrich eager literature students. Using works that range from the sixteenth through twenty-first century, the reading, writing, listening, and speaking experiences will broaden human understandings about the world around us today. Students, therefore, should expect a rigorous undergraduate English experience with intellectual challenges and a considerable workload that culminates with the AP English Literature and Composition Exam in May.

5116 FILM AS LITERATURE

½ CREDIT/1 QTR

This course is a study of film through genre, cinematic elements, critical theories, and values. Students will use critical thinking skills to apply different lenses to the films chosen and create reviews that allow them discuss, practice, and master both the criteria and critical thinking skills.

5117 SOCIAL MEDIA & LITERATURE

½ CREDIT/1 QTR

Social media has had a huge impact on our society in a myriad of ways. This class looks specifically at how it has affected the novel. Innovative writers have taken to different platforms, adapting material for a new audience. This audience appreciates brevity and power within 140 characters. In this class, we will study the strengths and weaknesses of this new form and create content modeled after such authors across multiple platforms.

5118 CREATIVE WRITING

½ CREDIT/1 QTR

Creative writing introduces students to writing in different genres while focusing on specific literary elements that will be highlighted in each piece. This class functions in a workshop design that is empowered by the writing pieces produced by the individual students. So in addition to writing in the different genres, students will also provide focused feedback for one another on those pieces of writing and finally reflect upon their growth as a writer.

5170 YEARBOOK I

1 CREDIT (FULL YEAR)

PREREQUISITE: 10, 11, 12, "C" OR ABOVE IN ENGLISH 1

Students study the principles of layout, design, copy writing and caption composition as practiced in yearbook journalism. Students plan, design layout, photograph and write copy for the yearbook. Financing the book by selling subscriptions and advertising is discussed and performed by the students. Specific Yearbook objectives are to:

1. develop organization and teamwork within the class
2. meet deadlines
3. write caption copy effectively
4. write thorough and interesting copy
5. use interviewing skills
6. make money through advertisements
8. take and crop effective pictures
9. practice proper layout and design techniques
10. successfully market a product
11. use desktop publishing

Students signing up for Yearbook I and II should be aware that they must be available for summer activities, especially for the selling of ads and the taking of pictures, prior to the start of the school year. They also must be available in the summer after the end of the school year to finish their assigned sections. All prospective students are required to complete an application packet, which is available from the guidance office. Teacher recommendations will also be used to evaluate student applications. Since there are usually more applicants for this class than available spots, the advisor will select the most qualified applicants and will notify the students of their status in the class as soon as possible.

6170 YEARBOOK II

1 CREDIT (FULL YEAR)

PREREQUISITE: 11, 12, YEARBOOK I, "C" OR ABOVE IN ENGL

Yearbook II students share their expertise and experience with Yearbook I students. They supervise the less experienced students with the main objective of producing an excellent Yearbook. Specific objectives are the same as Yearbook I.

Both Yearbook I and Yearbook II students must be available for summer activities, especially for the selling of ads and the taking of pictures, prior to the start of the school year. They also must be available in the summer after the end of the school year to finish their assigned sections. These students will be evaluated by the yearbook advisor based upon work completed in Yearbook I and a written essay assigned by the yearbook advisor. Students who are not ready or willing to accept leadership roles will not be accepted into Yearbook II.

Family & Consumer Sciences Courses

7810 CULINARY FUNDAMENTALS Fee \$20

½ CREDIT/1 QTR

In this course, students will apply fundamental culinary techniques, such as knife handling skills and the recognition, selection and proper use of tools and equipment. An emphasis will be placed on misc en place, the management of time, ingredients and equipment. Students will apply standard recipe conversions using proper scaling and measurement techniques.

7820 GLOBAL FOODS

Fee \$20

½ CREDIT/1 QTR

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

7850 Human Growth and Development

Fee \$15

½ CREDIT/1 QTR

In this course, students will analyze human growth and development throughout the lifespan. An emphasis will be placed on physical, cognitive, social and emotional growth and development. Additional topics will include human characteristics and traits, genetic defects, parenting styles and responsibilities and cultural differences within a family unit and community.

7860 Principles of Nutrition & Wellness

Fee \$20

½ CREDIT/1 QTR

In this course, students will use principles of nutrition to ensure a healthy body throughout the lifecycle. An emphasis will be placed on planning and preparing meals with an understanding of nutrients and their benefits, portion control and dietary needs. Additional information will include steroid and supplemental use, body weight and management and the implementation of physical activity to maintain a healthy lifestyle.

7880 Career and College Readiness

½ CREDIT/1 QTR

In this course, students will develop effective learning strategies and skills to provide a strong foundation for successful lifelong learning. Throughout the course, students will research careers and occupations, review postsecondary admissions qualifications, develop interviewing skills and participate in internships. Additional topics will include principles and techniques of professionalism, networking, conflict-resolution, negotiation, leadership and entrepreneurship.

7890 Textile Design, Construction and Maintenance

Fee \$15

½ CREDIT/1 QTR

In this course, students will study the visual appearance of fabric and fashion design. Students will identify, analyze and apply production processes and techniques to textiles. Additional topics will include the maintenance and alterations of textiles products, including home interior accessories and garments.

7900 PERSONAL FINANCIAL MAINTENANCE

½ CREDIT/1 QTR

In this course, students will develop personal financial plans for individual personal well-being. Throughout the course, students will develop financial literacy skills to provide a basis for responsible citizenship and career success. Additional topics will include analyzing services from financial institutions, consumer protection, investing and risk management.

Foreign Language Courses

Students intending to begin the first credit of a foreign language should have at least a “C” in English or permission from the instructor or counselor.

3140 SPANISH I

Wkbook \$22

1 CREDIT

This is an introduction to the Spanish language with beginning emphasis on an aural-oral approach (hearing and speaking) and then moving into reading and writing. Basic grammar is learned in conversation and reinforced in notes and homework practice. Dialogues of everyday situations are used for practice and response. Included are many structures along with basic verb forms and tenses.

4140 SPANISH II

Wkbook \$22

1 CREDIT

PREREQUISITE: SPAN I

Spanish II is a continuation of Spanish I, using the same textbook series. Emphasis will continue in grammar, vocabulary building, speaking and listening. More reading and self-expressive writing will be introduced.

5140 SPANISH III

Wkbook \$22

1 CREDIT

PREREQUISITE: SPAN II

In Spanish III there is much more speaking. We use the language to simulate real-life situations, as well as creative skits that help reinforce culture, grammar, and vocabulary building. Special individual projects that require good dictionary and technological skills help students improve their reading comprehension and writing composition skills. The textbook series remains the same.

6140 SPANISH IV

Wkbook \$22

1 CREDIT

PREREQUISITE: SPAN III

Spanish IV reviews verb tenses and grammatical structures learned in Spanish II and Spanish III and applies them to writing and conversation. Spanish and Latin American literature is included. Whenever possible, exchange students from Spanish speaking countries are enrolled in the class to provide authentic language and cultural sharing.

Health And Physical Education Courses

4031 PHYSICAL EDUCATION Grade 9, 10 $\frac{1}{4}$ CREDIT/1 QTR

The general function of Physical Education in the secondary school is to assist in providing a medium for normal growth and natural development of each student. This program will emphasize such phases of education as the physical, the mental, the social, and the recreational welfare of each pupil. Proper dress and the habit of regular participation are expected!

This program will consist of units of rhythmic activities, individual sports, team sports, and physical fitness/weight training. Every effort is made to develop life-long skill and knowledge in these activities, and to derive a reasonable amount of satisfaction from participation. The Physical Education program will provide opportunities for the individual to act in situations that are physically wholesome, mentally stimulating, emotionally satisfying, and socially sound. The activities selected will involve an interrelationship of knowledge, skills, and performance.

4321 HEALTH

Grade 10

 $\frac{1}{2}$ CREDIT/1 QTR

The World Health Organization defines health as "a state of complete physical, mental, and social well-being - not merely the absence of disease or infirmity." In the face of this definition, it is the responsibility of this course to offer suggestions on how to maintain good health and to couple this knowledge with a desire to achieve the highest degree of physical and mental fitness.

To accomplish the above mentioned goal, the following objectives are sought: to continue to develop a positive self-concept that will enhance good decision-making skills, and to provide a variety of meaningful experiences which will influence the acquisition of knowledge and the development of attitudes and skills needed to cope successfully with the problems in our changing world.

Introduction to Education & Professions

5440 Foundations of Education and Training

1 Credit

In this first course in the career field, students will examine the goals of education and training as well as environments in which education and training are delivered. They will identify learners' and stakeholders' roles, rights and responsibilities in educational systems; assess legal and ethical issues related to education; and determine careers of interest in education and training. Employability skills and state requirements for becoming an educator will also be addressed.

5450 Education Principles

1 Credit

In this first course in the pathway, students will research the historical perspectives and theories of education used in the forming of their own personal educational philosophy. Students will assess legal, ethical and organizational issues. Additionally, students will assess developmental appropriate practices and identify challenging issues associated with teaching children with diverse needs. Career planning, professional guidelines and ethical practices will also be emphasized.

5460 Child and Adolescent Development

1 Credit

Students will examine and apply the theoretical foundations of human growth and development to child and adolescents. Additionally, learners will determine children's learning styles; stages of social, emotional, cognitive and physical development; and needed accommodations in educational settings. Throughout the course, family and community engagement, cultural influences on learners and language growth and development will be emphasized.

5470 Classroom Management

1 Credit

Students will apply developmentally appropriate techniques to advance learners' social and emotional growth. They will create classroom environments to maximize the learning potential of each learner. Additionally, learners will create and enforce classroom rules, establish classroom routines, and model self-discipline for learners. Conflict resolution, positive discipline and behavioral-modification techniques will be emphasized throughout the course.

An \$8.00 is applied to seniors only in this category.

Mathematics Courses

Beginning in 2017-18 we will have three tracks for math. The STEM track is for those students who plan on a majoring in Science, Technology, Engineering or Math in college. The college track is for those students who plan to attend college and major in something besides the STEM field. Students who take Algebra 2 in the College track will not be able to switch to the STEM track.

This table lists the pathway of courses for each math track.
See the course descriptions for more details.

| STEM | COLLEGE | CORE |
|---------------------------------|--------------------------|----------------------------|
| • Algebra | +Algebra 1 | >Algebra 1 |
| • Geometry | +Geometry | (full yr or sem) |
| • Algebra 2 Trig (full year) | +Algebra 2 (semester) | >Geometry/Tech Geometry |
| ***** | +Trigonometry | >Trans Math |
| • Pre Calculus | ***** | >Algebra 2 |
| • Calculus 1 | +Prob & Stats | ***** |
| • AP Calculus AB | +Pre Calculus | >Prob & Stats |

3220 ALGEBRA I

1 CREDIT

Algebra is the branch of mathematics that investigates the relationships of numbers using symbols (usually letters of the alphabet) to represent numbers. It is essentially a generalization of the process of calculation. This course will develop the students' understanding of the basic concepts of elementary algebra, and help them acquire the important manipulative algebraic skills. Some of the course topics include: solving graphing and writing linear equations and inequalities, exponents, polynomials, factoring, quadratic equations.

4240 TECHNICAL GEOMETRY

1 CREDIT

PREREQUISITE: ALGEBRA I

This course does not meet NCAA eligibility requirements.

This course is designed for either the student who completes the full-year section of Algebra I or who completes Algebra I with difficulty. This course covers most of the objectives of a Geometry course, but in a hands-on, technical-based approach. The practicality of Geometry is emphasized more than the theory, with a more informal approach to geometric proof than a traditional Geometry course. This course is ideal for the student pursuing a Tech Prep area of study and will prepare the student for either the applied mathematics of a career technical program or for further study in mathematics.

4230 GEOMETRY

1 CREDIT

PREREQUISITE: ALGEBRA I

Geometry is the branch of mathematics that is made up of the study of points, lines, and planes. It also includes finding lengths, areas, and volumes of geometric figures. Some of the topics of this course are: lines and angles on a plane and in space, congruent triangles, properties of triangles and quadrilaterals, constructions, similarity, right triangles and trigonometry.

6250 TRANSITION MATH

1 CREDIT

PREREQ: ALGEBRA I, GEOMETRY OR TECH GEOMETRY

This course does not meet NCAA eligibility requirements.

This is designed to reinforce skills from Algebra I and Geometry that will be necessary for success in Algebra II. However, topics will also be included from a conventional Algebra II course, including linear equations, functions, systems of equations, quadratic equations and inequalities, rational expressions and equations, among others. Completion of this course will allow students to progress to Algebra II. It is highly recommended that students have their own graphing calculator (TI 83 or 84).

5220 ALGEBRA II

1 CREDIT/1 SEMESTER

This course is an elaboration of Algebra I and an introduction to higher level mathematics. Topics include linear equations and functions, linear systems, matrices, quadratic functions, an introduction to the complex number system, polynomial functions, exponential and logarithmic functions, rational and radical functions, probability, basic trigonometry, and an introduction to series and sequences. It is highly recommended that students have their own graphing calculator (TI 83 or 84).

6220 ALGEBRA II TRIG

2 CREDITS/ALL YEAR

PREREQ: ALG I & GEOM WITH A HIGH LEVEL OF SUCCESS IN BOTH

This course is an in depth study of Algebra II topics, an introduction to advanced mathematical concepts, and an exploration of trigonometry concepts. This course is recommended for college bound students and is a prerequisite to higher mathematics courses at SHS. Topics include equations and inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, trigonometric identities and equations, applications of trigonometry, analytic geometry, series, sequences, and probability. It is highly recommended that students have their own graphing calculator (TI 83 or 84).

6230 PROBABILITY & STATISTICS

1 CREDIT

PREREQUISITE: ALGEBRA II

This course should be selected by anyone who enjoys studying mathematics. The first half of Probability and Statistics is devoted to the study of combinatorics and probability. Combinatorics is the mathematical term for the study of techniques that can be used to answer the question - "How many ways can this be done?" The second half of Probability and Statistics is split between descriptive statistics, or the collection and organization of data; and inferential statistics, which involves making decisions based on the data.

6260 TRIGONOMETRY

1 CREDIT

PREREQUISITE: ALGEBRA II/CORE FROM COLLEGE PATHWAY!

This is a college pathway class only! This class will be an advanced class studying trigonometry! It is perfect class for a college non-math majoring student to take. In Trigonometry a student will study basic right triangle trig, trig identities, law of sines, law of cosines, and trig form of a complex number. Trig is recommended for seniors headed to college that are NOT on the STEM pathway! A student may further their high school math studies in either Statistics or honors Precalculus with an 'A' and/or with prior teacher permission after completion of this course!

7240 PRE-CALCULUS

1 CREDIT

PREREQUISITE: ALL YEAR HONORS ALGEBRA II/TRIGONOMETRY OR NON-HONORS

TRIGONOMETRY AS A JUNIOR

This is an Honors class! Pre-Calculus should be taken by any student planning on studying a math or science related field in college. The course can be taken by students whom completed honors Algebra II/ Trigonometry from the year before OR non-honors Trigonometry from the college pathway with an 'A' and/or with prior teacher permission. (special note: Students who take non-honors Trigonometry may only END in Pre-Calculus their senior year. They may not move on to Calculus I) This course will look at topics such as vectors, decomposition of partial fractions, Zeno's Paradox, summation notation, math induction, parametric graphing, and polar graphing. An introduction of Calculus I with an in-depth study of limits will conclude the course.

7244N CALCULUS I

1 CREDIT

PREREQUISITE: PRE-CALC

This is a Honors/ STEM pathway class only! Honors Pre-Calculus must be taken before taking Calculus I. College credit for Math 1150 through NC State College is possible for this course automatically with a 28 math ACT score or a 22 ACT math score with administration/guidance/ teacher permission. An 'Accuplacer' test may also be taken through NC State College to qualify for this course. The course will study derivatives, application of derivatives, and basic integration techniques.

7250 AP CALCULUS AB

1 CREDIT

PREREQUISITE: CALCULUS I

This is a Honors/ STEM pathway class only! The course will finish the branch of Calculus called integration. We will then review and study for all students wanting to take the AP Calculus AB exam in May.

Music Courses

4710 CHOIR

1 CREDIT/ALL YEAR

As co-curricular classes, members of the Symphonic Choir are expected to attend extra rehearsals and performances scheduled outside of the school day. The goal of Symphonic Choir is to attain the highest level of musical understanding and to gain sufficient proficiency in singing, encouraging students to be active participants in musical activities throughout life. Vocal areas covered in both choirs include breathing, note reading, diction and listening skills. Theory, history and a wide variety of musical styles are studied. Membership in all choirs is by audition only.

4740 POP MUSIC

Fee \$10

½ CREDIT/1 QTR

This is a survey course of “pop” music from its roots in 50’s Rhythm and Blues to its destination in the 21st century. This course is for all students. Learn more about your favorite performers and their music such as Elvis Presley, The Beatles, The Rolling Stones, The Doors, Bruce Springsteen, and anyone else you can or will find in the Rock and Roll Hall of Fame.

4730 MUSIC APPRECIATION

Fee \$10

½ CREDIT/1 QTR

10, 11, 12 grade

Music appreciation will provide an opportunity for those interested in music, to gain a better understanding of the language of music scales, key signatures, notation, ear training and listening skills. History and literature of Western Art Music will also be explored.

4750 MUSIC THEATER

1 CREDIT/SEMESTER

The Music Theatre class is designed to give students a deeper understanding in the world of musical theatre. Class discussions will consist of historical information, composer identification, and description of musicals found online and through additional research materials. “Hands on” sessions will invite professionals from around the area to meet with students, as they receive a better comprehension of each area of Musical Theatre. Field trips may be possible, depending on the time and place of the particular show.

MEN’S CHOIR AND WOMEN’S CHOIR

½ CREDIT/ALL YEAR

As co-curricular classes, members of the Men’s and Women’s Choirs are expected to attend extra rehearsals and performances scheduled outside of the school day. The goal of both of these groups is to attain a level of musical understanding and to gain sufficient proficiency in singing, encouraging students to be active participants in musical activities throughout life. Vocal areas covered in both choirs include breathing, note reading, diction and listening skills. Theory, history and a wide variety of musical styles are studied. Membership in all choirs is by audition only.

Music Courses

4700 BAND

1 CREDIT /ALL YEAR

PREREQUISITE: 8TH GRD BAND OR EQUIVALENT THROUGH PRIVATE INSTRUCTION

This co-curricular course exposes students to the expansive realm of instrumental music. Students will learn the fundamentals, appreciation, and history of music through a variety of repertoire, and performances in the marching and concert setting. Participation in band requires attendance to all events and activities both during and outside of the school day. Such events include (but are not limited to) summer rehearsals, band camp, after school rehearsals, football games, parades, concerts, etc.

4755 MUSIC THEORY

½ CREDIT/1 QTR

This is an introductory to the fundamentals of music theory and aural development. Students will learn about the structure, functionality, instrumentation, and analysis of music.

4756 ADVANCED MUSIC THEORY

1 CREDIT

This course expands upon basic music theory with greater focus on counterpoint, voice writing, harmonic analysis, structure and form, and aural training. This course is strongly suggested for those interested in pursuing a career in music.

JAZZ BAND

PREREQUISITE: MUST BE A CONCURRENT MEMBER OF THE BAND.

MEMBERS ARE CHOSEN BY AUDITION. EXCEPTIONS MAY BE MADE FOR STUDENTS CURRENTLY ENROLLED AT PCTC WHO WERE FORMERLY MEMBERS OF THE SHELBY WHIPPET BAND. PROGRAM AT THE DISCRETION OF THE DIRECTORS.

Jazz Band rehearses outside of the school day at a mutually agreed upon time following marching season. Students will be exposed to a variety of musical styles in a "Big Band" setting. Students have an opportunity for improvisation experiences as well as an opportunity to improve their individual technique on their instrument. These objectives are met through performance of the literature in rehearsals and various performances throughout the year.

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Instrumental Performance Ensembles

Instrumental music instruction is offered to all students who have elected to participate in the band program. Participants in the instrumental performance ensembles will be encouraged to develop their musical potential to the fullest and participate in numerous experiences leading to a greater appreciation of music. Ensemble members will develop and improve technical abilities with regard to their individual instrument, as well as ear training and sight-reading

skills. Listening skills will be developed with regard to balance and intonation within the ensemble. These skills will be cultivated using quality band literature representing a variety of musical styles, musical periods and composers.

Pre-Engineering Courses

3930 INTRO TO ENGINEERING DESIGN Fee \$10 1 CREDIT

IED is a course that teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using sketching and solid modeling computer design (Inventor) software. The course is based on one third design development and two thirds hands on computer work. Students are furnished with Design Briefs and may work as individuals or in teams depending on the assigned projects. Students will research the engineering and technology sector, such as its nature, history, current events, and career opportunities to further enrich their learning from the project. Individuals/teams will gain the knowledge and skills they need to accomplish the project through course information and research. This course is designed for those students that may wish to pursue engineering in college.

4930 PRINCIPLES OF ENGINEERING Fee \$10 1 CREDIT

POE is a course that helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. Students will use computers and build robotic equipment. Students are furnished with Design Briefs and may work as individuals or in teams depending on the assigned projects. Students will research the engineering and technology sector, such as its nature, history, current events, and career opportunities to further enrich their learning from the project. Individuals/teams will gain the knowledge and skills they need to accomplish the project through course information and research. This course is designed for those students that may wish to pursue engineering in college.

5931 DIGITAL ELECTRONICS Fee \$10 1 CREDIT

The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will analyze, design, and build digital electronic circuits. While implementing these designs, students will continually hone their professional skills, creative abilities, and understanding of the circuit design process.

5930 COMPUTER INTEGRATED MANUFACTURING (CIM) 1 CREDIT PREREQUISITE: IED Fee \$10

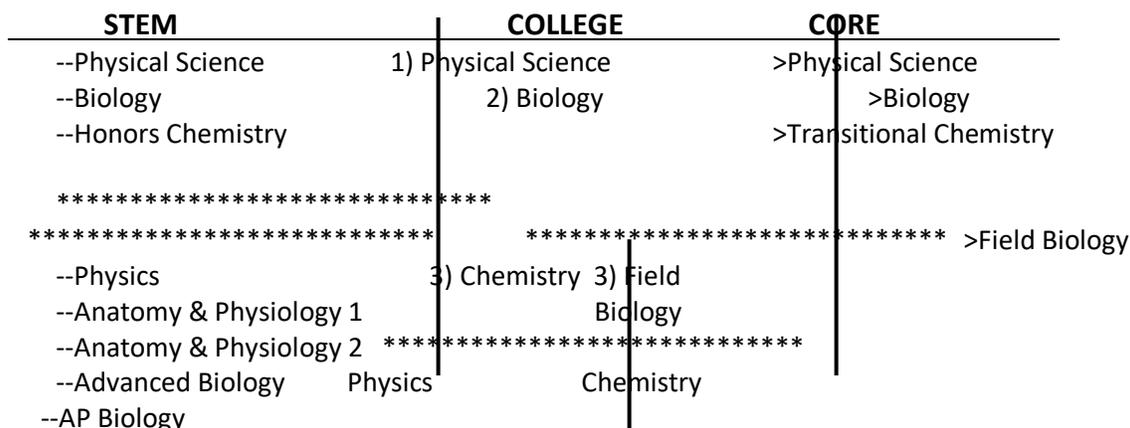
Students take the three-dimension modeling software skills learned in Introduction to Engineering Design to a whole new level. Using a three-dimensional model, students use automation, control systems, sensing devices, computer programming and robotics to efficiently mass produce products. Trouble-shooting is emphasized throughout the course. Students will have an opportunity to compete in f1 racing in this course.

Science Courses

There are three new science courses starting in 2017-18:

- Science Fact and Fiction will look at science in our everyday lives and how science has changed through the years. This is a 9 week course that **does not meet** the graduation requirements for Science.
- Field Biology is a semester long course that will prepare students for college biology courses. This course **does meet** the graduation requirements for Science
- Transitional Chemistry is for those students who are following the Core math track. The class **does meet** the state minimum requirements for Chemistry.

To help students schedule science courses, we have created three pathways. The STEM path is for those students who are planning on majoring in a science, technology, engineering or math in college. The college path is for those students who plan on attending a four year college but not majoring in a STEM field. The Core track is for those students who do not plan on attending college or those who struggle in science courses. Students must have three credits in science in order to meet graduation requirements. See the course descriptions below for more details about individual courses.



3310 PHYSICAL SCIENCE

Fee \$8

1 CREDIT

Physical science combines concepts related to chemistry, physics, and Earth and space science with historical perspective and mathematical reasoning. The course includes inquiry-based laboratory experiences that engage students in asking valid scientific questions and gathering and analyzing information. While the primary focus is on matter, energy and motion there is also a science project component within the course that serves as a culmination of all previously learned scientific processes and investigations. Physical science introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. This course qualifies as one science unit (physical science) towards Ohio Graduation requirements.

4310 BIOLOGY

Fee \$8

1 CREDIT

Biology is a semester course that is designed to introduce the student to the study of life sciences. Students will study the characteristics of life that all living organisms share and survey the living world to examine the diverse forms of life found on earth. Similarities and differences among different organisms will be highlighted and emphasis will be placed on the scientific method as the basis for formulating the ideas covered in this class. Concepts covered include basic life chemistry, DNA, genetics, cell biology, ecology, ecosystems, classification, and the evolution of the various living species on earth today from non-living viruses to bacteria to plants and animals including humans. This course qualifies as one science unit (biological science) towards Ohio Graduation requirements.

3315 SCIENCE FACT & FICTION

½ CREDIT/1 QTR

Science Fact & Fiction is an *elective* geared toward 9th and 10th grade students which *does not* satisfy a science requirement for graduation in Ohio *but does* explore the many interesting concepts of science woven into the media and our everyday lives. The course will examine how science has changed throughout history and developed into our modern understanding; as well as exploring predictions of how science will shape our future. The course will include how scientific work is portrayed in literature, news, and film. There are no prerequisites for this class.

5325 TRANSITIONAL CHEMISTRY

Fee \$10

1 CREDIT

PREREQUISITE: BIO & ALG I

This course does not meet prerequisite requirements for Anatomy I or Advanced Biology

Traditional Chemistry relates the science of chemistry to activities in our daily lives. Measurement, formulas, equations, moles, stoichiometry, heat, acids and bases, and gas laws are some of the topics that will be covered. This class is structured to include investigation of chemical phenomena in the laboratory setting. It is designed for students who are not pursuing a four-year degree and meets the expectations for chemistry credit as outlined by the Ohio Graduation requirements.

5320 CHEMISTRY I

Fee \$10

1 CREDIT

PREREQUISITE: BIO & ALG I

Chemistry I is a college preparatory course that relates the science of chemistry to activities in our daily lives. The course is designed for students who plan to go to college but are not planning to pursue a college major related to science. Formulas, equations, moles, stoichiometry, organic chemistry, and biochemistry are some of the concepts that will be covered. Chemistry I is structured so the students will have many opportunities to investigate chemical phenomenon in the laboratory.

5324 CHEMISTRY I-Honors

Fee \$10

1 CREDIT

PREREQUISITE: BIO & ALG I

Chemistry I-H is a weighted course for students who plan on attending college and pursuing a major related to science. This course will cover formulas, equations, moles, stoichiometry, oxidation-reduction, equilibrium, organic and biochemistry. The class will move at a fast pace and involve a great deal of problem solving. Chemistry I-H will include many laboratory activities. (Depending on funding and other factors, it is possible that students may receive college credit for this course through NCSC.)

5350 FIELD BIOLOGY

Fee \$5

1 CREDIT

PREREQUISITE: BIO & ALG I

This course will introduce student to some important topics in biology that they have not studied due mostly to state testing requirements. The areas covered in this course are still the basis of college biology courses so an understanding of these topics will greatly benefit the college bound student. For instance, most college biology majors begin their college careers with zoology and botany which is not offered at this time.

The course will also provide the students with many opportunities to experience biological science in the natural setting. Field experiences include river measurements, field botany, bird identification, insect identification, and microscopic studies of pond life.

5344 ANATOMY & PHYSIOLOGY I

Fee \$25

1 CREDIT

PREREQUISITE: CHEM I OR CHEM I scheduled in same year

This weighted course is especially helpful for students interested in medical-related fields but is also beneficial for any college bound student. The course compares various anatomical parts of a cat to the human being and relates those anatomical parts

to various physiological processes of organisms. (Depending on funding and other factors, it is possible that students may receive college credit for this course through NCSC.)

6344 ANATOMY & PHYSIOLOGY II Fee \$25

1 CREDIT

PREREQUISITE: Anat & Phys I

This course is a continuation of Anatomy & Physiology I. This weighted course will begin where Anatomy & Physiology I ended. There will be further body systems explored and further dissections performed.

6330 PHYSICS

Fee \$10

1 CREDIT

PREREQUISITE: Algebra II

This is a weighted course designed for seniors (or juniors that have demonstrated high achievement in previous science coursework). This course will provide both a review and in-depth exploration of major topics in physics, such as: measurement, kinematics, mechanics, energy, and modern physics. The course emphasizes the application of mathematics to solving physical problems and includes hands-on, lab-based work and the use of inquiry to form data based conclusions. This course will prepare students for higher education and give them a foundation for college-level physics.

6323 ADVANCED BIOLOGY

Fee \$10

1 CREDIT

PREREQ: GRD 11 & 12 RECOMMENDED "B" IN BIO & CHEM "

This course is designed for juniors and seniors that have demonstrated high achievements in Biology and Chemistry. Students who elect to take this course are planning to take science courses at the college level. This course will provide both review and in-depth exploration of major topics in biology. These topics include: genetics, ecology, microbiology, cellular biology, energy transformation, properties of life, biochemistry, evolution, and environmental issues. This course will prepare students for higher education.

Advanced Biology is a hands-on, lab-based class. This course is a prerequisite for AP Biology, which is offered second semester only.

6324 AP BIOLOGY

Fee \$10

1 CREDIT

PREREQ: GRD 11 & 12 RECOMMENDED "B" IN BIO & CHEM, ADV BIO & PHYSICS (OR PHYSICS CONCURRENTLY)

AP Biology is designed to be the equivalent of a first year college course in Biology. At the end of the course, students will have an awareness of the integration of other sciences in the study of biology, understand how the species to which we belong is similar to, yet different from, other species, and be knowledgeable and responsible citizens in understanding biological issues that could potentially impact their lives.

The course is also structured around inquiry in the lab and the use of the seven science practices throughout the course. An emphasis will be placed on the science practices not only through inquiry labs, but through the use of hands-on activities, homework, practice, evaluations, and the laboratory. This course will develop 21st century skills and be appropriate for college bound students, as well as those choosing any science-related career. Concepts and vocabulary will be challenging and are geared towards students motivated by personal interest as well as those considering further study in the field of Chemistry, Physics, Biology, Computer Science or other science-related fields and services.

Social Studies Courses

3510 MODERN WORLD HISTORY

1 CREDIT

World History is an interdisciplinary one credit course required for all freshmen. Students will engage in various learning activities and objectives correlated to the state academic content standards. This course examines world events from 1600 to the present. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements, and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

5510 AMERICAN HISTORY

1 CREDIT

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

4510 CONTEMPORARY WORLD ISSUES-Honors

1 CREDIT

PREREQUISITE: GRADE 11, INSTRUCTOR PERMISSION, APP. REQUIRED

Contemporary World Issues is devoted to studying the historical origins and development of domestic and foreign political and social problems that confront contemporary humanity. Possibilities include regional studies (ex. AIDS in Africa or the state of affairs in the Middle East), as well as issues of global concern such as North,South relations, environmental issues, the war on terror, world poverty, sustainable development and global economic development.

6540 AMERICAN GOVERNMENT/ECONOMICS

1 CREDIT

PREREQUISITE: 12, SOCIAL STUDIES II

This course is designed to provide a comprehensive and up-to-date survey of the theory, mechanics, and problems of American democracy and the American economy. It attempts to provide the student with an analysis of the basic principles of our constitutional system, to give him/her a clear view of the development, organization, and functioning of this system; to make the student aware of his/her privileges and responsibilities as a citizen and future voter; and to survey a number of the more pressing problems, external as well as domestic, which confront America today.

The economics component of this course will explore both micro/macro economics and how they relate to our economy both domestically and in the foreign markets. There will be consideration given to personal economics with a study of mortgages, money markets, investments, and insurance. The goal will be to prepare students to enter the world with an in depth understanding of the domestic and global economy of the United States.

6544 AP U.S. GOVERNMENT & POLITICS

1 CREDIT

PREREQUISITE: SOCIAL STUDIES II

This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Students will take the AP exam at the completion of the course.

5550 INTRODUCTION TO LAW

½ CREDIT/1 QTR

PREREQUISITE: 11,12

In a democracy such as ours, the citizens must know the rules of the game in order to be responsible participants. Many functions are served by an introductory course in Law. Introduction to Law takes an in-depth look at criminal and civil law, focusing on the rights, duties, and responsibilities of the citizen. The goal is to provide a practical, understanding of law and the legal system that will be of use to students in their everyday lives.

5560 GEOGRAPHY

½ CREDIT/1 QTR

PREREQUISITE: 11,12

The purpose of the Geography course is to introduce students to the study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface . Students employ geographic location, spatial concepts, and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice, as well as geographic locations.

6550 SOCIOLOGY

½ CREDIT/1 QTR

PREREQUISITE: 11,12

This is the systematic study of man and his group relationships, more commonly known as society. The student is made aware of the unity, the integration and the universality of these relationships. The course lays the groundwork of basic concepts in the area of sociology, socialization, interaction, social institutions and then discusses some of the problems of modern society.

6560 PSYCHOLOGY

½ CREDIT/1 QTR

PREREQUISITE: 11,12

This course provides an overview of the scientific study of human behavior. While sociology focuses on group behavior, psychology focuses on individual behavior. Major units of study include: 1)Biological basis for behavior 2)Sensation and perception 3)Learning and Memory 4)Motivation 5)Development 6)Sleep and consciousness 7)Personality and psychological disorders.

| STEM | COLLEGE | CORE |
|--------------------------|---------------------|-------------------------|
| --Physical Science | 1) Physical Science | >Physical Science |
| --Biology | 2) Biology | >Biology |
| --Honors Chemistry | | >Transitional Chemistry |
| ***** | | |
| ***** | ***** | ***** >Field Biology |
| --Physics | 3) Chemistry | 3) Field |
| --Anatomy & Physiology 1 | | Biology |
| --Anatomy & Physiology 2 | ***** | |
| --Advanced Biology | Physics | Chemistry |
| --AP Biology | | |

