

# **C.H.S. COURSE SELECTION GUIDE 2025-2026**



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## I: EARNING A DIPLOMA IN THE STATE OF OHIO:

\*Beginning with the Class of 2023 Ohio's graduation standards require a student to:

- ❖ *Earn the required core and elective credits*
- ❖ *Demonstrate Competency*
- ❖ *Demonstrate Readiness*

Below is an explanation of each area:

### 1. EARN THE REQUIRED CREDITS

Subject Area	NOTE:
<b>4 credits of English</b>	
<b>4 credits of Mathematics</b>	<i>To include Algebra 2 or equivalent.</i>
<b>3 credits of Science</b>	<i>To include one credit of physical science, one credit of life science and one credit of advanced science.</i>
<b>3 credits of Social Studies</b>	<i>To include one credit of American History, one credit of Government, one-half credit of World History and one half credit of elective.</i>
<b>1 full credit of Life Skills 2.0</b>	<i>Students will take a full credit of Life Skills 2.0 to include Financial Literacy, Career Exploration, Leadership, and Life Skills.</i>
<b>½ credit of Health</b>	<i>Awarded to students who successfully complete health in 7th and 8th grade.</i>
<b>½ credit of Physical Education</b>	<i>Students in Marching Band may waive this requirement if they participate in band for 2 years during high school.</i>
<b>6 credits of electives</b>	<i>ONE credit must be in the following areas: Fine/Performing Arts, Industrial Technology or Career-Technical education.</i>
<b>TOTAL CREDITS = 21 ½</b>	

## 2. DEMONSTRATE COMPETENCY




MOST students will meet this requirement through state testing (Option A below). Students who do not demonstrate competency through testing will work with their school counselor to earn competency in a different pathway. Below is a summary of the pathways currently available to Celina students:

A: State Testing	B: Demonstrate 2 career-focused activities	C: Military Enlistment	D: Demonstrate College Readiness
<p>Earn a score of 684 or above on the End of Course exams in:</p> <ul style="list-style-type: none"> <li>Algebra 1</li> <li>ELA 2</li> </ul> <p><i>*Tests to be taken in the Spring. Students who do not pass will participate in remediation and will retest in the fall.</i></p>	<p>Earn a 12-point Industry Credential</p> <p>AND Complete 1 of these options</p> <ul style="list-style-type: none"> <li>Participate in a work-based learning program of 250 hours</li> <li>Earn the OHIO MEANS JOBS Readiness Seal</li> </ul>	<p>Show proof of enlistment in a branch of the armed services.</p>	<p>Earn a remediation-free score on the ACT College Entrance Exam.</p> <ul style="list-style-type: none"> <li>English=18</li> <li>Math=22</li> <li>Reading=22</li> </ul>







## 3. DEMONSTRATE READINESS

- All students must demonstrate that they are ready to move on to their next steps after high school.
- The state of Ohio has implemented 12 seals that will allow students to show readiness.
- Students must earn 2 seals in order to demonstrate readiness.
- Students will work with their school counselor to determine which seals line up with their individual goals and interests.

The seals available to students are listed below, along with the requirements to earn the seal. NOTE: One seal MUST be a state defined seal.

<p><b>Science Seal</b></p> <p>Earn a score of 700 or above on the End of Course Exam for Biology OR Earn a score of or B in an advanced science course.</p> 	<p><b>Citizenship Seal</b></p> <p>Earn a score of 700 or above on the EOC exams in American History and Government OR earn a grade of A or B in both of the corresponding courses</p> 	<p><b>Military Enlistment Seal</b></p> <p>Make a commitment to enlist in any branch of the armed services after high school.</p> 	<p><b>Ohio Means Jobs Readiness Seal</b></p> <p>Work with three mentors to develop the skills to find and retain employment after high school.</p> 
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<p><b>College Readiness Seal</b></p> <p><i>Earn remediation free scores on the ACT college entrance test. (See above for needed scores)</i></p> 	<p><b>Honors Diploma Seal</b></p> <p><i>Meet all academic requirements to earn one of the 5 Honors Diplomas offered by the state. See next page for criteria.</i></p> 	<p><b>Industry Credential Seal</b></p> <p><i>Earn a single credential, or set of credentials equaling 12 points or more.</i></p> 	<p><b>Technology Seal</b></p> <p><i>Complete an eligible technology course with a B or better. Some courses taken through TriStar and College Credit Plus may qualify.</i></p> 
<p><b>Seal of Biliteracy</b></p> <p><i>Demonstrate proficiency in English and an additional World Language</i></p> 	<p><b>Student Engagement Seal*</b></p> <p><i>This is a locally defined seal. Students must demonstrate 2 years of participation in a athletics, clubs, theater productions, etc. in grades 9-12</i></p> 	<p><b>Community Service Seal*</b></p> <p><i>This is a locally defined seal. Students must show documentation of 10 community service hours in grades 9-12</i></p> 	<p><b>Fine Arts Seal*</b></p> <p><i>This is a locally defined seal. Students must participate in 2 years of band, choir, dance, visual art, or other outside fine/performing art activity during grades 7-12.</i></p> 

### **MINIMUM COLLEGE PREPARATORY REQUIREMENTS**

Courses listed below are required for regular admission at most state post-secondary institutions. Students whose secondary school preparation does not meet these minimum standards may be admitted on a 'conditional' basis that will require completion of remedial work before beginning classes in a degree-granting program. Course requirements may vary from one institution to another.

- **4 credits** of English with emphasis on composition
- **4 credits** of Mathematics, at least one of which should be taken in the senior year (Algebra 1, Algebra 2 and Plane Geometry)
- **3 credits** of Social Studies
- **3 credits** of Laboratory Science
- **2 credits** of the same Foreign Language
- **1 credit** of the Fine Arts
- A college entrance examination such as ACT or SAT, typically taken in the Spring of the junior year.

## **HOW COLLEGES SELECT STUDENTS**

Colleges select students by the rigor of coursework pursued by the student during high school, student rank, GPA, college entrance examination scores, service to the school and the community, extracurricular activities, attendance record, personal profile of the student, neatness and accuracy of the college application, letters of recommendation, and personal interview (if required).

## **COLLEGE ATHLETES**

Students planning to participate in intercollegiate athletics must pay close attention to the courses they select. They may need to go through the NAIA or NCAA eligibility center during their junior year, and they want to make sure they are eligible.

### **NAIA**

If you are playing NAIA, you must register at [www.playnaia.org/](http://www.playnaia.org/). You must meet two of the three criteria: GPA (2.0/4.0), class rank (top 50%), and ACT (18) or SAT (860). Students must send an official transcript at the end of their junior year and a final transcript once they graduate. All ACT scores need to be sent directly from the testing agency using code 9876.

### **NCAA**

If you are playing at a Division I or II institution, you must register at [www.eligibilitycenter.org](http://www.eligibilitycenter.org). GPA and course requirements determine eligibility. Check with your counselor your freshman year to make sure you are taking a core curriculum that meets NCAA requirements. Students must send an official transcript at the end of their junior year and a final transcript once they graduate. Students must meet the following criteria:

- Graduate from high school
- Complete 16 core courses: 4 years of English (Must be College Prep English), 3 years of math, 2 years of science, 1 extra year of English, math, or science, 2 units of social science, 4 years of extra core courses (from any category above or world language, non doctrinal religion, or philosophy). For Division I, 10 core courses must be completed prior to the 7<sup>th</sup> semester of high school (January of your senior year). These courses are locked in and cannot be retaken for improved credit. 7 of the 10 courses must be in English, math, or science.
- Division I: Must have a core GPA of at least 2.3. Grade point average is based on core courses.
- Division II: Earn a 2.200 grade-point average or better in your core courses.

## HONORS DIPLOMA:

*High school students can gain state recognition for exceeding Ohio's graduation requirements through an honors diploma. Students challenge themselves by taking and succeeding at high-level course work and in real world experiences. Below is a summary of the types of honors diploma offered and the criteria for obtaining the honors diploma:*

Criterion	Academic Honors	Career Tech Honors	STEM Honors	FINE ARTS Honors	Social Science Honors
Math	4 units: Alg 1, Geom, Alg 2 and 1 higher level course	4 units: Alg 1, Geom, Alg 2 and 2 higher level course	5 units: Alg 1, Geom, Alg 2 and 2 higher level courses	4 units: Alg 1, Geom, Alg 2 and 1 higher level course	4 units: Alg 1, Geom, Alg 2 and 1 higher level course
Science	4 units: including 2 advanced level	4 units: including 2 advanced level	5 units: including 2 advanced level	4 units: including 2 advanced level	4 units: including 2 advanced level
Social Studies	4 units	4 units	3 units	4 units	4 units
World Language	3 units of the same language, or "2 & 2"	2 units of the same World Language	3 units of the same language, or "2 & 2"	3 units of the same language, or "2 & 2"	3 units of the same language, or "2 & 2"
Fine Art	1 unit	N/A	1 unit	1 unit	1 unit
GPA	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale
TESTING	27 ACT	27 ACT	27 ACT or WorkKeys score of 6 in Reading and Math	27 ACT	27 ACT
Field Experience & Portfolio	N/A	Extensive field experience in student's chose area of focus and completion of portfolio	Extensive field experience in student's chose area of focus and completion of portfolio	Extensive field experience in student's chose area of focus and completion of portfolio	Extensive field experience in student's chosen area of focus and completion of portfolio
Additional	N/A	Complete 4 credits of a career technical program OR earn an industry recognized credential of score of Proficient on Career-Tech Competency Assessment	N/A	N/A	N/A

\*Students must meet all but ONE criterion in any given category.

\*NOTE: This information is current as of the printing of this booklet. Criteria could change at any time based on the whims of the State Department of Workforce and Education.



## II: GRADES, GPA & CLASS RANK

### A: Grades

-Students are given grades at the end of each 9-week grading period.

-At the end of the semester (two 9-week grading periods) students receive a semester grade. This grade will be reported on the transcript and used to calculate the student's "grade point average."

-Semester grades are calculated as follow:

- 40% for each of the 2 grading periods
- 20% for a semester exam or project

### B: Grading Scales:

Classroom grading scale:

A = 95-100	B- = 80-82	D+ = 67-69
A- = 90-94	C+ = 77-79	D = 63-66
B+ = 87-89	C = 73-76	D- = 62-60
B = 83-86	C- = 70-72	F = 59-0

Four point grading scale: Grade point averages are determined using the following scale:

A = 4.0	B- = 2.67	D+ = 1.33
A- = 3.67	C+ = 2.33	D = 1.0
B+ = 3.33	C = 2.0	D- = 0.67
B = 3.0	C- = 1.67	F = 0.00

### C: Weighted Grading Scales:

To encourage students to strive for academic excellence and take challenging coursework, Honors and Advanced Placement courses will be given additional grade points. The following classes are "weighted":

Honors Courses    \*\* 0.165 added to the point value  
value                      Example: A = 4.165

Honors English 9  
Honors English 10  
Honors English 11  
Honors Biology  
Honors Geometry  
Honors Algebra 2  
Honors PreCalculus  
Honors Spanish 3 & 4

Advanced Placement Courses    \*\*0.33 added to point  
Example: B+=3.67

AP Calculus AB  
AP Biology  
AP English Literature and Composition  
AP Government & Politics US  
AP Statistics

#### **D: Class Rank:**

Celina High School uses a Custom Rank Formula to rank all students within a graduating class after completion of 7 semesters of coursework. To account for the possibility that College Credit Plus students may earn more credits, and take more weighted classes in a school year, the maximum number used in the rank calculation can be not greater than what can be earned by a traditional student at Celina High School. These maximums may fluctuate from year to year based on courses offered during the cohort's 7 semesters at CHS. All students will earn a Rank Value out of a possible 1.00000 and will then be ranked accordingly.

#### **The formula is as follows:**

Unweighted GPA = 50%

Number of Total Credits = 10%

\*ACT Score = 25%

Number of Honors classes = 15%

**\*ACT score taken from the composite score from ONE test date. Superscores will not be used for calculating rank.**

**\*\*Due to the number of factors used to determine rank, students do not receive a rank on their transcripts until the completion of the 5<sup>th</sup> semester (middle of the junior year)**

**\*\*\* The student with the highest rank value will be the valedictorian. The second highest rank value will be the salutatorian.**

### **III: SCHEDULING INFORMATION**

#### **A: CHS CLASS SCHEDULE:**

Celina High School will continue to operate on a 7 period day. Each day will include a 30 minute lunch period and 30 minute Intervention/Enrichment period. The academic year will be divided into two semesters, each containing two 9-week grading periods.

The time period from 1:55-2:20 is reserved as an Academic Success period. Students who are credit deficient or who are underperforming in their courses will be required to stay for this period.

**NOTE: All 9<sup>th</sup> & 10<sup>th</sup> graders will be required to stay for this period.**

#### **B: REGISTRATION REQUIREMENTS and INFORMATION**

During the scheduling process, please be aware of the following:

- Students must register for a minimum of 5 academic credits per year.
- Students who are served on an Individualized Education Plan or 504 Plan have the opportunity to enroll in Intervention for one period.
- Any student may enroll in an Academic Intervention or Study Hall for one period.
- Study Halls will not count for credits.
- **NO STUDENT MAY HAVE MORE THAN ONE STUDY HALL OR INTERVENTION PER SEMESTER.**
- Seniors in good academic standing may request "early release" for the last period of the day. Requests are not guaranteed and will be based on placement of other classes on the student schedule. Early release may be revoked if the student does not maintain adequate grades, attendance or behavior.
- During the registration process, students will be asked to choose alternate selections for their elective choices. **Alternates may become part of your final schedule. Please choose these courses wisely.**

### **C: ATHLETIC & EXTRACURRICULAR ELIGIBILITY**

Satisfactory academic achievement is a condition for eligibility to participate in extracurricular activities. Therefore, the CHS policy for eligibility states that students must meet the following requirements:

1. Students must be enrolled in 5 courses per semester.
2. Students must receive passing grades in 5 classes in the 9-week grading period prior to their season of eligibility.
3. Students may have no more than one (1) failing grade in the previous grading period.
4. Students must maintain a GPA of no less than 1.5 on a 4.0 grading scale in the previous grading period.
5. Grades of all student athletes will be monitored on the 10<sup>th</sup> and the 25<sup>th</sup> of each month. Students who fall below a cumulative 2.0 will be required to attend study sessions/stay for AS period for additional academic assistance.
6. Students should not request schedule changes (i.e. drop a course) without first consulting the principal, athletic director, or guidance counselor to determine whether it will affect eligibility.

### **D: THE SCHEDULING PROCESS:**

1. Students and parents will read over the registration materials and select courses for the student based on the student's interest, ability, and future goals.
2. Students and parents are encouraged to speak with teachers directly or via email to discuss student course selection.
3. Students will complete the registration sheet including student and parent's signature.
4. **Tuesday, February 25<sup>th</sup>** will be registration day for students in grades 9-11. Students are to report to school on the following schedule: (schedule based on first letter of the last name)  
**9<sup>th</sup>: A-L: 7:30-8:15 M-Z: 8:15-9:00**  
**10<sup>th</sup>: A-L: 9:15-10:00 M-Z: 10:00-10:45**  
**11<sup>th</sup>: Will begin at approximately 11:00 when ACT testing is completed. Registration in the gym will end at 12:15**

**NOTE:** In order to complete the registration process students must bring their completed registration form signed by a parent/guardian.

### **E: REGISTRATION AND SCHEDULING MEETINGS:**

#### **❖ HIGH SCHOOL 101: An Orientation for Parents/Guardian of 8<sup>th</sup> Graders**

Parents/Guardians of incoming freshmen are encouraged to attend "High School 101: An Orientation for Parents/Guardians" on **Tuesday, January 28<sup>th</sup> from 6:00-7:30 p.m. in the Lecture Hall**. Plan to arrive between 5:45-5:59 p.m. to register in the Front Lobby so we can divide groups evenly. Administrators, counselors, and teachers will provide information about graduation and college entrance requirements, course information, and a tour of the facilities.

- #### **❖ Upperclassman registration:** All students in grades 9-11 will receive registration materials and view a brief presentation by CHS counselors during 5th period on **February 12, 2025**. Any student who is not in the building during this time will need to contact his/her school counselor to receive materials.

❖ **Additional Assistance:**

- ❖ **Individual Scheduling Meetings:** Counselors will meet each student individually from **February 12-21st** to go over credits, progress toward graduation, future schedule and career planning. **NOTE:** *CCP Students who do NOT have an English class at CHS will need to schedule an appointment with Mrs. Gabes to discuss scheduling for the upcoming school year.*
- ❖ **Junior Registration Night:** *Juniors may opt to come on **Monday, February 24th** to complete the registration process in the CHS Gym from 5:30-7:00 p.m.*
- ❖ **Teacher/Counselor Meetings:** *Parents wishing to speak with their student's teachers or counselor regarding class placement and options for next year may contact that person via email, or schedule an appointment during the evening on **Monday, Feb. 24th**.*
- ❖ **All CHS students are assigned a counselor. Counselor assignments and contact information is listed below:**

**Danielle Hirschfeld**

**Student last names A-K**

**Danielle.Hirschfeld@celinaschools.org**

**Ethan Knopp**

**Student last names L-Z**

**Ethan.Knopp@celinaschools.org**

**Wendy Gabes**

**Seniors & College Credit Plus Students**

**Wendy.Gabes@celinaschools.org**

**F: SCHEDULING & SCHEDULE CHANGE POLICY**

Students, with the careful input of teachers and parents, need to select courses based upon: graduation requirements, future educational goals, academic aptitude, and individual interest. Once requests are received, every effort will be made to accommodate student requests. All scheduling decisions are made based on student course requests including: classes and sections offered, hiring of additional staff and purchase of materials. Therefore, after **JUNE 1**, **SCHEDULES WILL NOT BE CHANGED UNLESS ONE OF THE FOLLOWING SITUATIONS EXISTS:**

- Scheduling error: student enrolled in wrong course or missing a required course, courses are out of sequence, etc.
- Student completed the course in Summer School and received credit.
- Course is above the student's ability level: based on teacher input/approval. Students and parents must schedule a meeting with the teacher to discuss moving levels in a course. This change can **ONLY** take place during the first 10 days of the semester or at the beginning of the new semester.
- A change in programing: Virtual Academy, CBI, TriStar, CCP
- Any of these changes **MUST** occur within the first 10 days of the semester. Any changes made after that deadline will result in a withdrawal grade of WF. Students must complete a course change request form to initiate any of these changes.
- ❖ To request a change that does not fall under one of these conditions students must submit a course change request form by the announced deadline and include a reason for the request.
- ❖ Year-long classes will not be dropped at the semester unless the student received a failing grade for the first semester
- ❖ Schedules will **NOT** be changed to accommodate teacher preference or period preference.
- ❖ Classes on the current schedule will not be moved to accommodate change.

## IV. EDUCATIONAL OPTIONS:

### A: HONORS/ADVANCED COURSEWORK:

**ADVANCED PLACEMENT COURSES:** Advanced Placement courses are offered in Calculus, Biology, English, American Government, and Statistics. These courses follow the prescribed curriculum of the Advanced Placement Program. An AP exam is offered at the end of the school year and college credits may be awarded based upon the score earned on the AP examination. Final grades received in these courses are weighted by .33. Students must have teacher approval to register for an AP class.

**NOTE: Each of these courses will include a \$40.00 non-refundable exam fee to cover the cost of AP testing.**

### **HONORS COURSES**

The following Honors courses are offered and carry a weighted grade equal to one-half the weight of the AP courses or .167. Placement in Honors Courses is based on teacher recommendation.

- Honors Geometry (grades 9 & 10)
- Honors Algebra 2 (grades 10 & 11)
- Honors Pre-Calculus (grades 11 & 12)
- Honors English 9 (grade 9)
- Honors English 10 (grade 10)
- Honors College English 11 (grade 11)
- Honors Biology (grades 9 & 10)
- Honors English 11 (grade 11)
- Honors Spanish 3 & 4

### B: TRI STAR CAREER 2.0:

Juniors and seniors have the opportunity to enroll in one of the career-technical programs offered through the TriStar Career Compact. The goal of Career Technical education is to help students develop skills that will be valuable throughout their lifetime. Students who successfully complete a Career Technical program develop skills that make them job ready for the workforce upon graduation. In addition, students may be able to earn college credit or test out of college courses through enrollment in select TriStar programs. Currently students may choose from the following two year programs:

- ☒ Agricultural Industrial Technology
- ☒ Animal Health
- ☒ Automotive Technology
- ☒ Career Based Intervention (one or two-year program)
- ☒ Construction
- ☒ Engineering Technology (one-year program)
- ☒ Graphic Communications
- ☒ Interactive Media
- ☒ I.T. Cybersecurity
- ☒ Marketing Education

- ☒ Medical Preparation
- ☒ Precision Machining
- ☒ REC TEC (Robotics, Electronics and Computer Technology)
- ☒ Teaching Professions
- ☒ Welding

All 8th grade and 10<sup>th</sup> grade students will attend an orientation session and have an opportunity to visit a program. Students must apply and be accepted to register for a program. For more information contact the your school counselor, or you may reach to directly to TriStar: [www.tristarcareercompact.com](http://www.tristarcareercompact.com)

#### **C: CELINA VIRTUAL LEARNING ACADEMY (CVLA):**

The Celina Virtual Academy is an online program designed for students who may have unique educational needs such as: credit deficiency or other extenuating educational, personal or social issues. Due to limited space and resources, enrollment in CVLA will be restricted to those students with extreme educational needs. Placement in the Virtual Academy is determined by the school administration and/or counselors. Students should contact their counselor or a principal for additional information.

#### **D: COLLEGE CREDIT PLUS (CCP):**

*Ohio's College Credit Plus program allows qualifying students the opportunity to earn college credits while still attending high school. The following are provisions of this program:*

- The student must meet the admission requirements of the post-secondary institution. Students must apply and be accepted to the post-secondary institution.
- Students and parents must attend a mandatory orientation meeting at the high school prior to enrolling in CCP.
- Once enrolled in the post-secondary institution students will be assigned a counselor at the college. All scheduling and questions relating to college courses will be handled by the college counselor.
- The number of courses a student may take at the college will vary depending on the number of classes the student is taking at the high school. Students may not take more than 30 semester hours of classes during one academic year.
- For additional information about College Credit Plus contact Mrs. Gabes.  
[Wendy.gabes@celinaschools.org](mailto:Wendy.gabes@celinaschools.org)

#### **E: CELINA SCHOOLS' POLICY REGARDING CCP:**

- Classes taken through CC+ will be weighted equal to a corresponding course at the high school.  
\*Example: A freshman opts to take English through CC+ rather than Honors English 9 at the high school. This course would then be weighted as an honors course.  
\*Example: A sophomore opts to take World History 1500-1900 through CC+ rather than World Studies at the high school. The course would not be weighted, as World Studies is NOT a weighted/honors course at the high school.
- Every effort will be made by the CHS counselors to meet with students and set up a schedule for High School courses BEFORE students schedule with their college. **Please note: Students MAY NOT leave a CHS class early or arrive late to accommodate classes at the college.**



- Per state regulations: students will be required to pay for any class that a student fails or drops after the “no fault” deadline given by the college.
- Athletes will be required to submit a “midterm” grade report to the Athletic Office at the end of a 9-week grading period if they are actively participating in a sport. Forms may be picked up in the Athletic office and will need to be signed by the professor of each college course. Athletes will be considered “ineligible” until this form has been received and verified by the Athletic Director.
- For additional questions regarding CC+ please contact Wendy Gabes (wendy.gabes@celinaschools.org).

#### **G: EARLY GRADUATION:**

Students wishing to graduate at the end of their junior year must schedule an appointment with the senior counselor, Mrs. Wendy Gabes to develop a graduation plan. This plan must include details about how all credits will be earned, how graduation pathways will be met, and demonstrate a strong post-high school plan. Students are strongly encouraged to meet with the senior counselor during the summer before the senior year, or during the registration process. **THE DEADLINE TO APPLY FOR EARLY GRADUATION IS SEPTEMBER 1ST.** **NOTE: Students who are credit deficient and/or have not met the competency requirement for graduation will NOT be permitted to graduate at the end of the junior year.**

## **V. CAREER EXPLORATION AND COURSE SELECTION**

### **A. JOB SHADOWING**

Students are able to arrange a job shadow. See your counselor for an application.

### **B. CAREER CLUSTERS**

The Career Clusters are separated into areas and are designed to help students plan their educational experiences culminating in a rewarding career and independent adulthood. Career clusters are groups of related types of work. This provides an easy way to explore different jobs/careers within one broad category.

# Agriculture, Food & Natural Resources



- Do you like to work outside?
- Do you love animals?
- Do you have a "green thumb"?
- Are you interested in protecting the environment?

If you can say YES to one of these questions you may want to consider working in the field of Ag, Food & Natural Resources

## **OCCUPATIONS:**

Ag Engineer	Animal Trainer	Animal Breeder
Conservationist	Farm Worker	Park Ranger
Veterinarian	Vet. Tech	Zoologist
Meat Cutter	Trash Collector	Game Warden

## **Helpful CHS Classes:**

- Ag, Food & Natural Resources
- Agriculture, Nat. Resources, & Plant Science
- Livestock Selection
- Plant & Animal Environmental Systems
- Zoology
- Biology
- Principles of Food

## **TRISTAR PROGRAMS:**

- Agricultural Technology
- Animal Science

**CHS Extracurriculars: FFA & FCCLA**

# Construction Technology



- Do you like to work outside?
- Do you like to create legos or models?
- Are you handy around the house?
- Are you intrigued when you see a building going up?

If this describes you, consider a career in Construction Technology. This in-demand career not only pays well, but allows you to work anywhere in the world!

## **OCCUPATIONS:**

Architect	Carpenter	Carpet Installer
Janitor	Painter	Interior Designer
Surveyor	HVAC Specialist	

## **Helpful CHS Classes:**

- Woods
- Engineering
- Basic Home Maintenance
- Mechanical Principles
- Architectural Design
- Textile Design
- Interior Design

## **TRISTAR PROGRAMS:**

- Construction
- Engineering Technology
- Welding

**CHS Extracurriculars: FCCLA & FFA**

# Education & Training



- Do you like babysitting?
- Do you enjoy helping others learn a new skill?
- Are you outgoing?
- Do you like being in charge of things?

The field of Education enables you to use a diverse skill set in a wide range of settings. Here are just a few of the options in this field:

## **OCCUPATIONS:**

Coach      Elementary Teacher      High School Teacher  
Teacher's Aide      Librarian      Vocational Teacher  
Special Education Teacher      Speech Pathologist

## **Helpful CHS Courses:**

- Psychology
- Sociology
- Child Development
- Successful Speaking
- Spanish
- FTA Teacher Assistant

## **TRISTAR PROGRAMS:**

- Teaching Professions

**CHS Extracurriculars:** FTA, FCCLA, National Honor Society, Spirit Squad, & Student Council

# Engineering & Science Technology



Do you like to do these things on a free Saturday?

- Tear apart the fridge and put it back together
- Design an addition for your parent's house
- Figure out why your printer isn't working
- Design a new roller coaster

The diverse field of Engineering & Science Technology can help you combine your love of problem solving into a rewarding career!

**Types of Engineering:** Mechanical, Structural, Electrical, Environmental, Nuclear, Manufacturing, Industrial & Civil

**Other professions in Engineering:** Machinist, Construction Worker, Draftsman & Heavy Equipment Operator

**Professions in Science Technology:** Astronaut, Bioengineer, Geologist, Physicist, Marine Biologist, & Archeologist

## **Helpful CHS Courses:**

- Engineering 1 & 2
- Coding
- Math Modeling & Reasoning
- Physics
- Chemistry
- Calculus
- Statistics
- Biology
- Architectural Drafting

## **TRISTAR PROGRAMS:**

- Engineering Technology
- Manufacturing & Machining Technology
- Robotic and Computer Technology
- Welding

**CHS Extracurriculars:** TEAMS & Scholastic Bowl

# Health Science



- Are science classes your favorite?
- Do you enjoy helping people?
- Can you work fast in an emergency?
- Do you follow instructions exactly?

The field of Health Science enables you to use a diverse skill set in a wide range of settings like promoting health and wellness or research and diagnosis.

## **OCCUPATIONS:**

Athletic Trainer      Nurse      Dermatologist  
Dentist      Massage Therapist      Home Health Aide  
Medical Secretary      Chiropractor      Pediatrician  
Pharmacist      Nuclear Medicine Technologist

## **Helpful CHS Courses:**

- Biology
- Chemistry
- Zoology
- Physics
- Calculus
- Child Development
- Statistics
- Psychology
- Physiology

## **TRISTAR PROGRAMS:**

- Medical Preparation

**CHS Extracurriculars: TEAMS & Scholastic Bowl**

# Hospitality and Tourism



- Do you like to cook?
- Can you talk easily with all types of people and put them at ease?
- Do you enjoy athletic events?
- Do you like to plan family recreational activities?

The field of Hospitality and Tourism offers opportunities to work in a restaurant, hotel, sports arena, travel agency, or manage students on a trip to another country!

## **OCCUPATIONS:**

Hotel Manager      Caterers      Restaurant Managers  
Janitor      Housecleaner      Wedding Planner  
Tour Guides      Chef      Ticket Agent

## **Helpful CHS Courses:**

- Spanish
- Principles of Food
- Global Foods
- Successful Speaking
- Managing Transitions

**CHS Extracurriculars: FCCLA, Spirit Squad, & Student Council**

# Human Services



- Do you help your friends with their personal problems?
- Do you care about people and want to help in some way?
- Are you a good listener?
- Do you enjoy planning events for others or helping ?

The field of Human Services would permit you to work with individuals and families to meet their personal needs.

## **OCCUPATIONS:**

Addiction Counselors      Clergy      Hairstylists  
Manicurists      Funeral Directors      Psychologist  
Social Worker      School Counselor      Customer Service

## **Helpful CHS Courses:**

- Psychology
- Sociology
- Child Development
- Successful Speaking
- Managing Transitions

**CHS Extracurriculars:** FCCLA, FCA&S, Spirit Squad, & Student Council

# Information Technology



- Do you enjoy working with computers and learning new programs quickly?
- Are you organized and able to focus on details?
- Have you created your own website?
- Is mathematics your favorite subject?

The field of Information Technology (IT) is growing and always changing with new developments in IT, you would be part of a cluster that continues to make an impact on society and individuals.

## **OCCUPATIONS:**

Computer Information Systems Managers  
Computer Engineers      Computer Support Specialists  
Database Administrators      Web Developers

## **Helpful CHS Courses:**

- Coding
- Math Modeling and Reasoning
- Adobe Illustrator
- Adobe Photoshop
- Media Arts
- Yearbook
- Photography

## **TRISTAR PROGRAMS:**

- Graphic Communication
- Interactive Media
- Information Technology/Cybersecurity

**CHS Extracurriculars:** E-Sports & Yearbook

# Law & Public Safety



- Are you able to work under pressure?
- Do you like to help people?
- Are you good at winning arguments?
- Do you instruct family and friends on laws and regulations?

The Law and Public Safety cluster has several options: safety, security, fire protection, law enforcement, and legal services.

## **OCCUPATIONS:**

Judges      Lawyers      Ambulance Drivers  
Law Clerks      Police Officers      Fire Inspectors  
Probation Officers      Military      Private Detectives

## **Helpful CHS Courses:**

- Government
- Psychology
- Sociology
- Successful Speaking
- Civil Rights
- Business & Personal Law
- Forensics

**CHS Extracurriculars: Mock Trial**

# Manufacturing



- Are you good at working with your hands?
- Are you interested in how machines work?
- Do you enjoy learning about the latest developments in electronics?
- Do you enjoy building things?

The field of Manufacturing involves manufacturing, installation, and repair. You may also design new product or determine how a product will be made.

## **OCCUPATIONS:**

Forklift Operators      Locksmiths      Jewelers  
Machinists      Packers      Quality Control Inspector  
Tool and Die Makers      Welders      Woodworkers

## **Helpful CHS Courses:**

- Intro to Technology
- Mechanical Principles
- Woods Technology
- Basic Home Maintenance

## **TRISTAR PROGRAMS:**

- Engineering Technology
- Manufacturing & Machining Technologies
- Robotic and Computer Technology
- Welding

**CHS Extracurriculars: Skills USA & FFA**



# Transportation Systems



- Do you have good eyesight and quick reflexes?
- Would you like to learn to fly an airplane?
- Would you like to learn to repair a vehicle?
- Would you enjoy working outdoors in all types of weather?

There are three avenues in this cluster: 1) move people and products by road, air, rail, or water; 2) repair and maintain the vehicles, trains, planes, and ships to keep people and products moving; 3) work behind the scenes to make sure the products and people get to the right place on time.

## **OCCUPATIONS:**

Airplane Pilot	Truck Drivers	Auto Body Repairers
Flight Attendant	Dispatchers	Train Conductors
Freight Handlers	Aircraft Mechanics	Bus Drivers

## **Helpful CHS Courses:**

- Intro to Technology
- Engineering
- Mechanical Principles

## **TRISTAR PROGRAMS:**

- Agricultural Industry Technology
- Automotive Technology
- Welding

## **CHS Extracurriculars: FFA**

## VI: COURSE DESCRIPTION BY DEPARTMENT:

# AGRICULTURE



### **Agriculture, Food & Natural Resources (AG-100)**

**Prerequisite:** NONE

*This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of Ag & Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and will develop communication, leadership and business skills essential to the agriculture industry.*

**Course Fee:** \$60.00

**Grade:** 9-12

**Credit:** 1

**Length:** Full year

### **Agriculture & Plant Science(AG-200)**

**Prerequisite:** AG-100

*Students will study the relationships between organisms in an ecosystem and the impact of those relationships on the environment. students will investigate how different ecosystems function and respond to changes in various biological, chemical, and geological processes. Students will examine fundamentals of resource development, agriculture, sustainability, energy needs and pollution control. Students will develop a basic understanding of the scientific method and learn to analyse and interpret data gathered from studies of the ecosystem. Throughout this course, students will develop responses to current and historic environmental problems and develop management strategies for responsible conservation and development of resources to meet world demand.*

**Course Fee:** \$70.00

**Grade:** 10-12

**Credit:** 1

**Length:** Full year

**Mechanical Principles (AG-300) Prerequisite: AG-100**

*Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identifying, diagnosing, and maintaining small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills.*

**Course Fee:** \$80.00    **Grade:** 10-12

**Credit:** 1                      **Length:** Full year

**Business Management for Agricultural and Environmental Systems (AG-400)**

**Prerequisite:** AG-100

*Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified.*

**Course Fee:** \$70.00    **Grade:** 10-12

**Credit:** 1                      **Length:** Full year

# ART



## Drawing 1 (ART500)

**Prerequisite:** None

*The primary focus of this course is to learn drawing techniques! Students will complete projects involving various drawing materials and subjects. Areas explored will be graphite values, portrait, figure, ink, sequence, patriotism, charcoal, contrasto, fresco, scratchboard, reassemble, and free choice. Computer image manipulation with Adobe Photoshop will be introduced.*

**Course Fee:** \$65.00

**Grade:** 9, 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** Students will receive a complete drawing kit.

## Drawing 2 (ART501)

**Prerequisite:** Drawing 1

*In this course, students will further develop drawing skills by completing larger and more complex projects. Areas of exploration will include distortion, patriotism, scratchboard, mosaic, foam core, and self-portrait—all including some computer image manipulation with Adobe Photoshop.*

**Course Fee:** \$65.00

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** Students will receive a complete drawing kit.

## Drawing 3 (ART502)

**Prerequisite:** Drawing 1 & 2

*Students interested in this course will explore various drawing themes and alternative formats in depth. Topics will include mixed media, large formats, linoleum prints, foreshortening, surrealism, and portraits. Adobe Photoshop image editing will be a major part of composing drawing ideas.*

**Course Fee:** \$70.00

**Grade:** 11 & 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** Students will receive a complete kit and drawing board.

### Adobe Illustrator 1 (ART503)

**Prerequisite:** None

*In this course, students will learn to draw and design basic images on the computer using Adobe Illustrator. We will be exploring different projects including: logos, ad design, t-shirt design, poster design, making our own comics, portraits, art history inspired drawings, and much more. Students will also design the school's art show poster.*

**Course Fee:** \$25.00

**Grade:** 9, 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

### Ceramics I (ART505)

**Prerequisite:** None

*This course is an introductory ceramics class for students who wish to explore the art of ceramics. Focus will be on hand building techniques: pinch, coil and slabs. Functional as well as sculptural applications will be explored. Pottery wheels will be introduced.*

**Course Fee:** \$50.00

**Grade:** 11-12

**Credit:** ½ credit

**Length:** 1 semester

### Ceramics II (ART506)

**Prerequisite:** Ceramics I with a B or better.

*This course is designed for students to further their basic knowledge and skills in hand building as well as throwing with the pottery wheel. Students will create larger and more challenging projects using coil, slab, wheel, and sculptural methods learned previously. A Raku firing will be conducted so students can experience alternative methods of firing/decorating processes.*

**Course Fee:** \$50.00

**Grade:** 11 & 12

**Credit:** ½ credit

**Length:** 1 semester

### Ceramics and Sculpture III (ART507)

**Prerequisite:** Ceramics I and Ceramics II with a B or better and permission of instructor.

*Students will continue to further explore ceramics with more emphasis on the overall idea and meaning of an artwork. Students will propose projects of their own design as well as teacher-designed projects. Advanced ceramics students must be self-motivated individuals.*

**Course Fee:** \$50.00

**Grade:** 12

**Credit:** ½ credit

**Length:** 1 semester

## Acrylic Painting 1 (ART509)

**Prerequisite:** Instructor approval at registration

*This course offers the opportunity for students to learn how to paint and to become familiar with art history. Students will complete approximately 8 painting assignments on canvas that are coordinated with styles and artists from art history. Acrylic painting techniques are combined with the styles of monochromatic, pop art, impressionism, expressionism, abstraction, genre, and free choice.*

**Course Fee:** \$75.00

**Grade:** 11 & 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** Student will receive a full painting kit

## Acrylic Painting 2 (ART510)

**Prerequisite:** Acrylic Painting 1 with a B or better.

*In this course, students will have the opportunity to continue to develop their painting skills. Students will complete 6 larger and more complex paintings on stretched canvas. Subjects include portrait, collage, palette knife technique, mixed media, and some free choice.*

**Course Fee:** \$75.00

**Grade:** 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** Student will receive a full painting kit.

## Traditional and Digital Photography (ART511)

**Prerequisite:** 2.8 or Higher GPA and instructor approval

*Students in this course will learn how to use both a film and digital camera. The basic darkroom procedures of developing and enlarging black and white film and prints will be discussed, as well as shooting digital images and photo editing on the computer with Photoshop. A variety of techniques used in the creation, development, and composition of photography will be included.*

**Course Fee:** \$65.00

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** Student must provide both a 35mm film camera and a digital camera for this course.

## Advanced Photography (ART512)

**Prerequisite:** B average in Photography and instructor approval

*Students in this course will expand their knowledge on photography using both film and digital cameras. The basic darkroom procedures of developing and enlarging black and white film and prints will be continued, as well as shooting digital camera images and photo editing on the computer with Photoshop. A variety of alternative techniques used in the creation, development, and composition of photography will be continued including: toning, liquid emulsions, polaroid transfers, Cliché vere, solarizing, and developer painted prints.*

**Couse Fee:** \$65.00

**Grade:** 11,12

**Credit:** ½ credit

**Length:** 1 semester



## Adobe Photoshop (ART513)

**Prerequisite:** None

*Put yourself on a magazine cover, in your favorite band, in an ad, on a CD cover, or on a movie poster when you learn Photoshop! Students will learn how to edit images to create their own compositions on the computer.*

*Students will complete several projects that will teach them how to manipulate images using Adobe Photoshop.*

*Some areas that will be covered include basic photo correction, masking, retouching, layers, filters, text, vector imaging, resolution, printing techniques, and using a scanner.*

**Course Fee:** \$25.00

**Grade:** 9, 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** *Students must supply numerous digital or film prints of themselves and family members to complete most of the required assignments.*

## Art I (ART514)

**Prerequisite:** None

*This course will teach the basic art design fundamentals through a wide range of studio projects. The students will be introduced to both 2 and 3-dimensional media and art techniques. Projects may include drawing, painting, papier mache, batiks, linoleum block prints, sculptures, silk-screening, photography, and more!*

**Course Fee:** \$45.00

**Grade:** 9, 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

## Jewelry (ART516)

**Prerequisite:** None

*The student will learn how to design, and produce various kinds of jewelry. Designs will be constructed from such materials as wood, plastic, clay, wire, papier mache, fabrics, copper and silver.*

**Course Fee:** \$45.00

**Grade:** 9, 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

# BUSINESS



## Financial Literacy and Life Skills 2.0 (BUS-600)

**Required course for all 9<sup>th</sup> graders.**

*This hands-on course will provide all freshmen with the skills they will need to be successful in high school and beyond. Students will complete four modules during the year. These will include: financial literacy, college & career exploration, life skills and leadership. The class will be team-taught and will allow students the opportunity to focus on assignments and projects that center on real-world applications.*

**Course Fee:** \$20.00

**Grade:** 9

**Credit:** 1 credit

**Length:** full year

**Special Notes:** *This course is required for graduation.*

## Computer Applications I (BUS601)

**Prerequisite:** None

*Students will utilize the Microsoft Office suite (Word, Excel, PowerPoint, Access and Publisher) while developing critical thinking and accountability skills as well as mastering basic keyboarding. Students will also learn how to format basic documents for employability and are encouraged to use learned skills in coursework and projects for other teachers. Skills developed using Microsoft Office will enable students to transfer their knowledge to other software applications.*

**Course Fee:** \$10.00

**Grade:** 9, 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

## Computer Applications II (BUS602)

**Prerequisite:** C- or above in Computer Applications I

*This course concentrates on the INTERMEDIATE levels of the software used in Computer Applications I. Software utilized includes: Microsoft Word, Excel, PowerPoint, Access and Publisher. Students are encouraged to use their skills in other coursework and projects for other teachers.*

**Course Fee:** \$10.00

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

## Introduction to Business (BUS605)

**Prerequisite:** NONE

*This course will introduce students to key business related topics and help them assess their interests and abilities in a business career. The content includes an introduction to accounting, economics, entrepreneurship/small business ownership, finance, international business, business management and marketing, as well as personal finance and management. This course incorporates the use of technology including computers and software.*

**Course Fee:** \$10.00

**Grade:** 9 & 10

**Credit:** 1/2 credit

**Length:** 1 semester

## Accounting 1 (BUS607)

**Prerequisite:** None

*Accounting I is intended to provide general information concerning terms, procedures, and forms in the accounting field. This class will provide students considering a business major in college with a solid foundation for accounting classes at the college level. Students will complete the accounting cycle for a proprietorship including journalizing and posting transactions, preparing payroll and financial statements, and end-of-fiscal period work. Students will also complete the accounting cycle for a corporation including equity accounts, additional financial statements, subsidiary ledgers, and a payroll system for compensating employees. \*\*This course is important for any student considering a business major in college.*

**Course Fee:** TBD

**Grade:** 10,11,12

**Credit:** 1 credit

**Length:** 1 Year

**Special Notes:** Working papers and two practice sets must be purchased. Calculator and straight edge are required

## Accounting 2 (BUS611)

**Prerequisite:** C- or above in Accounting 1.

*The purpose of this course is to prepare students who are planning to major in business at college by acquainting students with advanced concepts in accounting. Students will review accounting principles from Accounting 1. New topics will include: accounts receivable, accounts payable, control systems, and payroll, departmentalized corporate accounting, depreciation, management and cost accounting, and financial statement analysis.*

**Course Fee:** TBD

**Grade:** 11,12

**Credit:** 1 credit

**Length:** 1 Year

**Special Notes:** Working papers and a practice set must be purchased.

## Business & Personal Law (BUS609)

**Prerequisite:** None

*The purpose of this course is to provide students with a basic knowledge of law that provides practical use for everyday life. Course topics include: law and our legal system, contract law, consumer law, employment protection and equal opportunity, purchasing power, and insurance. Past guest speakers include: law enforcement officers, attorneys, jurors, landlords, insurance agents, and a Better Business Bureau representative. A class field trip is taken to the Mercer County Court of Common Pleas to observe court in session and occupations within the legal system.*

**Course Fee:** \$10.00

**Grade:** 11 & 12

**Credit:** 1/2 credit

**Length:** 1 semester

## Business Math (BUS610)

**Prerequisite:** None

*This course is intended to provide students with the mathematical skills necessary for everyday living. Students will be introduced to the mathematics involved in purchasing, borrowing, wages, and taxes. Content will include a review of decimals, fractions, and percentages presented as problems in business. In addition, students will learn about income, checking accounts, cash and credit card purchases, loans, budgeting, insurance, investments, housing and transportation costs, payroll, and other business applications.*

**Course Fee:** \$10.00

**Grade:** 10, 11,12

**Credit:** 1/2 credit

**Length:** 1 semester

## Financial Management (BUS615)

**Prerequisite:** None

*This course provides students with sound money management skills and financial planning. The objective of this course is to prepare students to successfully manage money based on their goals and desires. The course covers the basics of financial planning and money management. Topics covered may include the following: decision making, loans, checking, savings, investing, credit, insurance, budgeting, taxes, banking services, and retirement funds. The course will help prepare students for the financial decisions they will face during and after high school. This course incorporates the use of technology including computers and software.*

**Course Fee:** \$10.00

**Grade:** 10, 11,12

**Credit:** 1/2 credit

**Length:** 1 semester

## Entrepreneurship (BUS620)

*How do you turn an idea into a business? Experience just that in this course! Entrepreneurship focuses on recognizing a business opportunity, starting a business, operating and maintaining a business. Students will be exposed to the development of critical thinking, problem solving, and innovation in this course as they will either be the business owner or individuals working in a competitive job market in the future. Other areas covered include marketing, finance, human resources, and social and environmental issues affecting entrepreneurs.*

**Course Fee:** TBD

**Grade:** 10,11,12

**Credit:** 1/2 credit

**Length:** 1 semester

## Senior Career Internship (BUS950)

*If you are a senior planning to go to college, but wanting to try out different professions then this class is for you! This course will combine classroom sessions with real world internship opportunities. Students will attend class one period per day to complete activities that will help with the college search and application process, as well as gain insight into their personal strengths and weaknesses. Students will cover a variety of topics and participate in activities such as: college visits, mock interviews, personality assessments, guest speakers and mentoring. Students will be placed in workplace internships with local businesses and institutions based on their career goals.*

**Course Fee:** TBD

**Grade:** 10,11,12

**Credit:** 2 credits

**Length:** Full Year

# ENGLISH



## English 9 (ENG110)

**Prerequisite:** None

*The purpose of this course is to develop skills in grammar, composition, and vocabulary, as well as to study different types of literature. Skills covered include, but are not limited to, correction of common sentence errors, parts of speech, subject-verb agreement, and pronoun usage. Literature study will include units of study in fiction, nonfiction, drama, and novel.*

**Course Fee:** \$30

**Grade:** 9

**Credit:** 1 credit

**Length:** 1 year

## Honors English 9 (ENG120)

**Prerequisite:** *Students will be selected for this course based on grades and performance on Ohio's State Tests. Students who are placed in this course will be notified over the summer.*

*The purpose of this course is to prepare advanced English students for college in writing skills and literary analysis. This course is intended to develop skills in grammar, composition, and vocabulary, as well as to study different types of literature. Skills covered include, but are not limited to, correction of common sentence errors, library and study skills, parts of speech, subject-verb agreement, and pronoun usage. Literature study will include units of study in fiction, nonfiction, drama, and novel.*

**Course Fee:** \$34.00

**Grade:** 9

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** This course carries a weighted grade.

## English 10 (ENG210)

**Prerequisite:** English 9

*This course develops skills in literature, writing, and oral communication. Students will study the conventions of non-fiction, short story, drama, and poetry. Students will produce narratives, responses to literature, and expository and persuasive writings, with an emphasis on organization, creative and analytical thinking, research and documentation, and grammar, mechanics, and usage. The course includes development of vocabulary and speaking skills.*

**Course Fee:** \$28.00

**Grade:** 10

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *Students enrolled in this course will take a state mandated End of Course exam. This exam score will be used to fulfill the competency requirement for graduation.*

## Honors English 10 (ENG220)

**Prerequisite:** *English 9 and teacher recommendation. The purpose of this course is to prepare advanced students for college in literature, writing, and oral communication skills.*

*Students will study the conventions of a variety of literary genres, including nonfiction, short story, and classical Greek and Roman mythology. Students will produce narratives, responses to literature, and expository and persuasive writings, with an emphasis on organization, creative and analytical thinking, research and documentation, and grammar, mechanics, and usage conventions. The course includes vocabulary development and speaking skills study and practice.*

**Course Fee:** \$34.00

**Grade:** 10

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *Students will purchase paperback literature. This course carries a weighted grade.*

*Students enrolled in this course will take a state mandated End of Course exam, which will be used to fulfill the competency requirement for graduation.*

## Practical English 11 (ENG300)

**Prerequisite:** English 10

*This course is intended for juniors who plan to attend a technical school, join the military, or enter the workforce upon graduation.*

*The course will continue the study of effective oral and written communication and develop skills for lifelong reading comprehension and appreciation. Students will explore a variety of fiction and non-fiction texts with an emphasis on reading, grammar, mechanics, and writing skills applicable to daily life situations.*

**Course Fee:** \$35.00

**Grade:** 11 & 12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *Enrollment in this course is based upon teacher recommendation.*

## English 11 (ENG310)

**Prerequisite:** English 10

*This course is for college-bound juniors and seniors who need to improve reading comprehension and writing skills. The course will include American literary works in all genres, vocabulary, and a specific emphasis on note-taking skills and the study and application of research skills.*

**Course Fee:** \$20.00

**Grade:** 11 & 12

**Credit:** 1 credit

**Length:** 1 year

## Honors English 11 (ENG320)

**Prerequisite:** *Honors English 10 or English 10 and teacher recommendation*

*Students will chronologically survey the development of United States literature by studying the historical, social, and philosophical influences, beginning with Native American literature and extending through contemporary works. They will become acquainted with major American writers; these writers' topics, styles, and genres; and examples of well-known works of literature. The course also broadens students' vocabulary and develops their skills in the comprehension of increasingly complex fiction and nonfiction texts, speaking, critical thinking, research, and analytical and creative writing.*

**Course Fee:** \$32.00

**Grade:** 11

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *This course is open to grades 11 and 12 and is intended for students who are planning to continue their education after high school. Students will purchase materials to supplement the textbook. The course carries a weighted grade.*

## Practical English 12 (ENG400)

**Prerequisite:** *English 11 or Practical English 11*

*This course is intended for seniors who plan to attend a technical school, join the military, or enter the workforce upon graduation. The course will continue the study of effective oral and written communication and develop skills for lifelong reading comprehension and appreciation. Students will explore a variety of fiction and non-fiction texts with an emphasis on reading, grammar, mechanics, and writing skills applicable to daily life situations.*

**Course Fee:** \$39.00

**Grade:** 12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *Teacher recommendation required.*

## English 12 (ENG410)

**Prerequisite:** *English 11 or Honors English 11*

*This course for college-bound seniors is intended to familiarize students with major world authors, their works, and the historical trends that have affected them and to improve and coordinate reading comprehension, critical thinking, speaking, analytical, and creative writing skills. The class will present works of poetry, prose, and drama dating from the classical period into the 20th century, as well as vocabulary study and instruction and practice in writing, organization, style, and grammar mechanics and usage conventions. There will also be a focus on British literature from the Anglo-Saxon period through the Renaissance, plus selected world literature from ancient cultures.*

**Course Fee:** \$20.00

**Grade:** 12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *Students who have earned an A or B in Honors English 11 are not eligible for this course. This course is intended for college-bound seniors.*

## Honors English 12 (ENG420)

**Prerequisite:** Honors English 11 and teacher recommendation.

*This course familiarizes students with major world authors, their works, and the historical trends that affected them, along with improving students' reading comprehension, speaking, critical thinking, and analytical and creative writing skills. This course focuses on poetry, prose, and drama in English literature from the Anglo-Saxon period through the Renaissance, plus selected world literature from ancient to modern with vocabulary study and instruction and practice in writing organization, style, grammar, mechanics, and usage.*

**Course Fee:** \$36.00

**Grade:** 12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *This course is intended for those students who are planning to continue their education after high school or those who want a thorough English background. This course carries a weighted grade.*

## AP English: Literature & Composition (ENG500)

**Prerequisite:** Honors English 10 & 11 and teacher recommendation. This course is designed for students seeking an advanced study in all phases of literature and writing and will include an extensive study of multiple genres of literature. Analytical writing assignments will be required. The intent is to help students prepare for college freshman level work at an accelerated level. Content will focus on introducing intensive literary analysis and writing with an emphasis on short and long fiction, modern and classical drama, and post-Renaissance to Modern period poetry. There will be extended and increasing practice during the year for the Advanced Placement English Literature and Composition exam taken in May.

**Course Fee:** \$85.00

**Grade:** 12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *Student book purchase required. Course fee includes a nonrefundable deposit for the Advanced Placement Exam. This course carries a weighted grade.*

## Independent Reading (ENG600)

**Prerequisite:** None

*The intent of this course is to provide students the opportunity to enjoy literature by reading books of their own selection. Students will spend class time reading a variety of books, engaging in discussions and presentations, and completing book projects. All reading material is subject to the teacher's approval.*

**Course Fee:** None

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** *This is not a college prep course.*

## Creative Writing (ENG604)

**Prerequisite:** English 9

*This course is intended to stimulate the student's creative processes and to allow him/her to practice creativity by writing stories and creating projects. The course will make students aware of the amount of writing and various styles of writing used in daily life. Students will do several in-class writings based on activities and work will be evaluated with primary emphasis on creativity and content.*

**Course Fee:** \$2.00

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** *This is not a college prep course.*



### Successful Speaking: Just SAY It! (ENG606)

**Prerequisite:** None

*This course is designed to introduce the student to the theory and process of shaping ideas into an effective oral presentation. Particular attention is paid to selecting supporting materials, arranging ideas in a logical manner, and delivering the speech effectively. Emphasis is placed on presenting informative, demonstrative, and persuasive speeches, with opportunities also provided for impromptu speaking experiences.*

**Course Fee:** None

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** *This is not a college prep course.*

### Theater (ENG602)

**Prerequisite:** None

*In this elective course, students will get ready to step into the spotlight. In this exciting elective course, students will dive into the magical world of theater. Over the semester, students will discover everything from the history of famous theatres and legendary actors to the essential basics of stagecraft. The course will start with some acting adventures where students will unleash their creativity as they develop their acting skills through fun improvisation games and captivating monologue performances. Next, we will go behind the scenes and learn about what happens off-stage. Students will explore vital roles in stage production, including directing, set design, and costuming. The end of the course is the task of creating your own play. Students will write, direct, and perform in their very own student-written plays.*

**Course Fee:** None

**Grade:** 9,10,11,12

**Credit:** ½ credit

**Length:** 1 semester

**Special Notes:** *This is not a college preparatory course.*

### Popular Fiction (ENG608)

**Prerequisite:** None

*Popular Fiction: The purpose of this course is to explore popular genres of fiction that many Americans consume today. From science fiction, to mysteries, to superheroes, and romantic comedies, students will learn to critically evaluate the media they see every day. Students can expect to read a variety of short stories and prose, view a selection of films, participate in class discussions, and learn a bit more about the stories surrounding them.*

**Course Fee:** None

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** *This is not a college prep course.*

### **Academic Reading and Writing (ENG1100 WSU)**

**Prerequisite:** Students who enroll in this course must meet the eligibility requirements for Wright State University. Students are required to submit an application and transcript directly to the college. Students will earn 1 high school credit and 3 college credits for successful completion of this course.

*Introduces students to principles of effective multi-literacy practices required of college-level thinkers, writers, readers, and communicators. Students are introduced to writing for different contexts with an emphasis on the differences between informal writing and formal, revised, research-based academic writing. Students are taught how to apply the writing process to plan a longer writing project, conduct college-level research, organize drafts, incorporate sources into their writing, give feedback to peer writers, receive feedback from peer writers, and refine their writing style for different audiences and purposes.*

**Course Fee:** None

**Grade:** 7-12

**Credit:** 1

**Length:** 1 semester

### **Research Writing and Argumentation (ENG2100 WSU)**

**Prerequisite:** Admission to Wright State University AND completion of ENG1100 with a C or above. Students will earn 1 high school credit and 3 college credits for successful completion of this course.

*Adapts principles introduced in ENG 1100 to writing in the disciplines. Extended instruction of effective multi-literacy practices required of intermediate college-level thinkers, writers, readers, and communicators. Students conduct more advanced research in their chosen or intended discipline and use multiple scholarly sources in a series of extended research-based genres for different audiences and purposes. Students plan, draft, and revise longer and more complex projects. Students give and receive feedback from peer writers in their own discipline and across disciplines.*

**Course Fee:** None

**Grade:** 7-12

**Credit:** 1

**Length:** 1 semester

# FAMILY & CONSUMER SCIENCE



## Managing Transitions (FCS641)

**Prerequisite:** None

*This course is designed to help meet challenges faced in everyday life. You will examine your values and resources that support your lifestyle goals. Discussions will center on time management, developing plans to reduce and manage stress in your life and applying decision making skills to education, work, and personal problems. You will learn positive skills to express emotions and resolve conflict. Food labs will be included to help you plan and prepare basic, healthy meals and a sewing project will be completed to stress skill development.*

**Course Fee:** \$25.00

**Grade:** 9 & 10

**Credit:** 1/2 credit

**Length:** 1 semester

## Principles of Food (FCS643)

**Prerequisite:** None

*This course is designed to help you plan and prepare meals. Healthy choices will be stressed with the help of reliable food information sources such as the USDA Myplate.gov and Dietary Guidelines. Traditional recipes will also be prepared and skills will be taught to make recipes healthier. Basic food preparation skills will be studied and practiced in food labs. Information regarding safe food handling practices will also be provided.*

**Course Fee:** \$30.00

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

## Child Development (FCS645)

**Prerequisite:** None

*If you are planning to have or care for children when you are older, then this class is for you. Topics include readiness for parenthood, childbirth, infant and toddler care, preschool and school age children, guidance and discipline, nutrition, choosing appropriate toys and activities, consequences of teen parenthood, child abuse issues and helping children with crisis situations such as divorce and death in the family. Labs will be included to address learning through play and nutrition of children and pregnant women.*

**Course Fee:** \$15.00

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

### **Global Foods (FCS649)**

**Prerequisite:** Successful completion of Healthy & Safe Foods / Principles of Food and teacher recommendation  
*This course is designed to help you plan and prepare advanced recipes. Beyond the basics of cooking, Global Foods will explore advanced cooking techniques from around the world. Students will prepare meal plans and menus which they serve monthly. This course is best for those who enjoy spending time in the kitchen and are interested in developing more in-depth knowledge of culinary techniques. Students must get prior recommendation to take this course.*

**Course Fee:** \$40.00

**Grade:** 11 & 12

**Credit:** ½ credit

**Length:** 1 semester

### **Textile Design (FCS651)**

*This course will provide students with a comprehensive understanding of fabric construction, including the properties of different fibers, yarn creation, weaving and knitting techniques, dyeing processes and garment making. Students will design and create their own textile products. In addition, students will explore the various career paths within the fashion and textile industries.*

**Course Fee:** \$30.00

**Grade:** 10, 11, 12

**Credit:** ½ credit

**Length:** 1 semester

### **Interior Design (FCS652)**

*Students will learn how to design interior spaces, including the technical skills and design principles needed for the field. Students learn how to create floor plans, use color theory, and select furnishings. Students will learn to express their ideas visually through sketches, models and 3D renderings.*

**Course Fee:** \$30.00

**Grade:** 10, 11, 12

**Credit:** ½ credit

**Length:** 1 semester

# GLOBAL LANGUAGES



## Spanish 1 (SPN100)

**Special Note:** For students planning on attending a four-year university or who have a specific interest in learning the language. A foreign language is not a requirement for high school graduation.

This course is intended to acquaint students with a basic knowledge of the Spanish language and culture in various Spanish speaking countries. The course includes the study of vocabulary, grammar, and culture.

Emphasis is placed on reading, listening, speaking, and writing skills.

**Course Fee:** \$5.00

**Grade:** 9, 10, 11

**Credit:** 1 credit

**Length:** 1 year

## Spanish 2 (SPN200)

**Prerequisite:** Spanish 1 and approval of the Spanish instructor.

This course is intended to transition students from a basic to an intermediate level of proficiency. The course will include more intensive grammar and vocabulary study with a special emphasis on reading and conversational skills.

**Course Fee:** \$5.00

**Grade:** 10, 11, 12

**Credit:** 1 credit

**Length:** 1 year

## Honors Spanish 3 (SPN300)

**Prerequisite:** Spanish 2 and the approval of the Spanish instructor

This course is intended to apply and build on skills and knowledge learned in Spanish 1 and 2. Focus will be on students developing a more sophisticated use of the language and a more complete understanding of Hispanic culture.

**Special Note:** This class will carry a weighted grade.

**Course Fee:** \$5.00

**Grade:** 11, 12

**Credit:** 1 credit

**Length:** 1 year

### **Honors Spanish 4 (SPN400)**

**Prerequisite:** *Spanish 3 and the approval of the Spanish instructor*

*This course is intended to provide advanced study of Spanish language focusing on various communication skills.*

**Special Note:** *This class will carry a weighted grade.*

**Course Fee:** \$5.00

**Grade:** 12

**Credit:** 1 credit

**Length:** 1 year

# HEALTH & PHYSICAL EDUCATION



## Health (HPE100)

**Prerequisite:** None

*This course is designed to provide knowledge and basic experiences that will help students to develop desirable health attitudes, habits, and skills.*

**Course Fee:** None

**Grade:** 9,10,11,12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** *This class is a make-up class only for those students who have not passed an approved health course. This is an online course.*

## General Phys. Ed. (HPE101)

**Prerequisite:** None

*This course will provide students with the opportunity to learn various fundamentals and rules of a variety of lifestyle sports, team sports, weight training and aerobic activities. Skill development, teamwork, and knowledge of the sports will be a priority. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. **Engagement/Participation and changing everyday are required.***

**Course Fee:** None

**Grade:** 9,10,11,12

**Credit:** 1/4 credit

**Length:** 1 semester

**Special Notes:** *Every student must complete a total of 1/2 credit in physical education studies to graduate from high school. 1/4 of this credit upon successful completion of 8<sup>th</sup> grade PE.*

### Advanced Weightlifting (HPE201)

**Prerequisite:** C- or better in Weightlifting/Approval from instructor

*This course is designed to give students the opportunity to learn and enhance weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will enhance their fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Course includes more advanced olympic lifts. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. **Engagement/Participation and changing everyday are required.***

**Course Fee:** None

**Grade:** 10, 11 & 12

**Credit:** 1/4 credit

**Length:** 1 semester

### Weightlifting 1st Semester (HPE501)

**Prerequisite:** None

*This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. **Engagement/Participation and changing everyday are required.***

**Course Fee:** none

**Grade:** 9,10,11,12

**Credit:** 1/4 credit

**Length:** 1 semester

### Weightlifting 2nd Semester (HPE502)

**Prerequisite:** None

*This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. **Engagement/Participation and changing everyday are required.***

**Course Fee:** none

**Grade:** 9,10,11,12

**Credit:** 1/4 credit

**Length:** 1 semester

- **STUDENTS MAY TAKE ONLY ONE SEMESTER OF WEIGHTLIFTING PER YEAR**
- **IT IS HIGHLY RECOMMENDED THAT STUDENTS INTENDING TO PARTICIPATE IN THE FOOTBALL PROGRAM DO NOT TAKE WEIGHTLIFTING DURING THE SPRING SEMESTER.**



# INDUSTRIAL TECHNOLOGY



## Introduction to Technology (TEC620)

**Prerequisite:** None

*This course is intended to introduce students to different areas of our technological society. The student will explore and study different areas of technology. The course is intended to help students understand and apply the impact of present and future technologies in their lives and lifestyles.*

**Course Fee:** \$42.50

**Grade:** 9 & 10

**Credit:** 1/2 credit

**Length:** 1 semester

## Woods Technology 1 (TEC622)

**Prerequisite:** None

*This course is designed to develop student interest in woodworking, familiarize students with hand and power tools, and develop hobbies and interests in wood industries. The student will be exposed to various types of wood and wood joints. Care and maintenance of tools and equipment will also be addressed. Students are responsible for an additional project fee.*

**Course Fee:** \$25.00

**Grade:** 9 & 10

**Credit:** 1/2 credit

**Length:** 1 semester

## Woods Technology 2 (TEC623)

**Prerequisite:** B- in Woods Technology

*This course is designed to build upon the skills acquired in Woods Tech I. Students will develop a better understanding of woodworking materials and techniques to properly execute joinery and cabinetry projects. Care and maintenance of tools and equipment will be addressed. Students are responsible for an additional project fee.*

**Course Fee:** \$25.00

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

## Advanced WoodWorking (TEC624)

**Prerequisite:** B- in Woods Technology 1

*This course is a continuation of Woods technology I & II. Students will be working independently, practicing and demonstrating advanced woodworking skills used in the cabinet making and construction fields. An emphasis will be placed.*

**Course Fee:** \$25.00

**Grade:** 11 & 12

**Credit:** 1/2 credit

**Length:** 1 semester

### **Cabinetry (TEC625)**

**Prerequisite:** B+ in Woods Technology 1

*This course is designed to prepare students for employment in the cabinet making and fine woodworking trades.*

*The course curriculum combines technical instruction with shop experience. Students learn to build cabinets and fine furnishings and complete precise work with their hands. Assigned projects help the students learn to use the tools of the cabinet making trade.*

**Course Fee:** \$25.00

**Grade:** 11 & 12

**Credit:** 1 credit

**Length:** 1 year

### **Basic Home Maintenance (TEC630)**

**Prerequisite:** none

*This course is recommended for students who have an interest in home maintenance and repair. It is designed primarily to meet the needs of students with little or no previous Technology Education experience. Home Maintenance covers basic house construction and use of hand and portable power tools for wood and other materials used in normal repairs. Classroom instruction is combined with hands-on experiences in performing tasks similar to those required in the home.*

**Course Fee:** \$40.00

**Grade:** 9, 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

### **Engineering I (TEC621)**

**Prerequisite:** None

*This course is intended to develop a basic understanding of working drawings and beginning drafting practices as the foundation for communicating in all industrial technology and vocational courses. Instruction will include how to create basic 3-view drawings, dimensioning, reading of blueprints, and pictorial drawing. Basic AutoCAD principles will also be introduced to students.*

**Course Fee:** \$15.00

**Grade:** 9 & 10

**Credit:** 1/2 credit

**Length:** 1 sem.

### **Engineering II (TEC650)**

**Prerequisite:** None

*This course is designed to teach basic skills in computer aided drafting while performing tasks in the engineering or manufacturing areas. Required computer aided drawings will include orthographic projections, dimensioning, pictorial, detail work, and assembly drawings. This class stresses the basics and should benefit students planning to pursue engineering in college.*

**Course Fee:** \$15.00

**Grade:** 10,11&12

**Credit:** 1/2 credit

**Length:** 1 semester

## **Architectural Drafting (TEC651)**

**Prerequisite:** None

*This course is designed to develop a basic understanding of residential design, construction procedures, materials, codes, and material costs. The course will cover the design, symbols, specifications, and materials involved in residential construction. Students will draw basic residential plans using computer software and equipment.*

*Plans include floor plans, foundation, electrical, elevations, and 3D presentation drawings.*

**Course Fee:** \$15.00

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

# MATHEMATICS



## Integrated Mathematical Concepts (MTH100)

**Prerequisite:** None

*This course is intended to help students build a foundation for the study of other high school mathematics courses. The course will specifically deal with basic topics from Algebra and Geometry. Content includes studies in the foundations of algebra, solving equations, solving inequalities, functions, linear algebra, real numbers, right triangles, perimeter, area, volume, two-dimensional figures, three-dimensional figures.*

**Course Fee:** None

**Grade:** 9

**Credit:** 1 credit

**Length:** 1 year

**Special Note:** *This course is designed for students who have difficulty with mathematics. A scientific calculator (like those purchased in Middle School) is required.*

## Algebra 1 (MTH110)

**Prerequisite:** None

*The intent of this course is to help students understand the basic structures of the real number system, recognize and apply techniques used in Algebra, develop a logical procedure for problem solving, and appreciate the need for precision in using the Algebraic language. This course will focus on foundations of algebra, solving equations and inequalities, linear functions, systems of equations and inequalities, exponential functions, polynomials and factoring, quadratics functions, radicals and rational expressions and equations, data analysis, and probability.*

**Course Fee:** None

**Grade:** 9

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *A scientific calculator (like those purchased in middle school) is required. Students enrolled in this course will take a state mandated End of Course exam.*

## **Honors Geometry (MTH120)**

**Prerequisite:** Algebra 1 (Grade of A or B preferred, see teacher with questions)

*This advanced level of Geometry is intended for the student who has shown exceptional aptitude for Mathematics in the past or has taken Algebra I in the 8th grade. This course covers the following topics: points, lines, planes, proofs, angle relationships, perpendicular and parallel lines, congruent and similar polygons, constructions, circles, trigonometry, transformations, area, volume, and probability.*

**Course Fee:** None

**Grade:** 9

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *This course carries a weighted grade. Supplies needed: scientific calculator, compass, and protractor are required. Students enrolled in this course will take a state mandated End of Course exam.*

## **Practical Algebra 1 (MTH200)**

**Prerequisite:** None

*This course will extend from the freshman course Integrated Math Concepts. Content will focus on Linear Functions, Systems of Equations and Inequalities, Exponents and Exponential Functions, Polynomials and Factoring, Quadratic Functions and Equations, Radical Expressions and Equations, Rational Expressions and Functions, and Data Analysis and Probability.*

**Course Fee:** None

**Grade:** 10

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *A scientific calculator (like those purchased in middle school) is required. Students enrolled in this course will take a state mandated End of Course exam.*

## **Geometry (MTH210)**

**Prerequisite:** Algebra I

*Content from this course will focus on Tools of Geometry (Points, Lines, and Planes), Reasoning and Proof, Parallel and Perpendicular Lines, Congruent Triangles, Relationships within Triangles, Polygons and Quadrilaterals, Similarity, Right Triangles and Trigonometry, Transformations, Area, Surface Area and Volume, Circles, and Probability. Students will also be asked to construct lines, angles, bisectors, etc. using geometric tools such as a straight edge, compass, and protractor.*

**Course Fee:** None

**Grade:** 10 & 11

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *A calculator is required. Students enrolled in this course will take a state mandated End of Course exam.*

## Honors Algebra 2 (MTH220)

**Prerequisite:** Geometry (with a recommended grade of A or B)

*This advanced level of Algebra 2 is intended to prepare exceptional math students in applications of Algebraic skills and concepts at a quick pace. The course will continue the study of and linear and quadratic equations and other Real Number concepts from Algebra I, in addition to a study of complex numbers and polynomial, radical, rational, exponential, logarithmic, and trigonometric functions. The course also includes a study of sequences and series and an introduction to statistics.*

**Course Fee:** None

**Grade:** 10 & 11

**Credit:** 1 credit

**Length:** 1 year

**Special Note:** *This course carries a weighted grade. A graphing calculator (preferably TI-83, TI-84) is required.*

## Practical Geometry (MTH300)

**Prerequisite:** Practical Algebra 1 or Algebra 1

*This course is intended to help students understand the basic structure of Geometry and to understand how Algebra and Geometry complement each other. Content includes points, lines, planes, induction and deduction, coordinate geometry, angle relationships, perpendicular and parallel lines, triangle relationships, triangle relationships, quadrilaterals, right triangle trigonometry, polygons, area, circles, surface area, volume, and probability.*

**Course Fee:** None

**Grade:** 11, 12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *This course is designed for those students who generally have difficulties in mathematics. A calculator, compass, and a protractor are needed for this course.*

*Students enrolled in this course will take a state mandated End of Course exam.*

## Algebra 2 (MTH310)

**Prerequisite:** Geometry

*This Algebra 2 course is intended to prepare students in applications of Algebraic skills at a moderate pace. The course will continue the study of linear and quadratic equations and other Real Number concepts from Algebra I, in addition to a study of complex numbers and polynomial, radical, rational, exponential, logarithmic, and trigonometric functions.*

**Course Fee:** None

**Grade:** 11

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *A graphing calculator (preferably TI-83, TI-84) is required.*

## Math Modeling and Reasoning - MMR (MTH410)

**Prerequisite:** Geometry

*This yearlong course develops critical reasoning, problem-solving, and modeling skills through real-world applications. It reinforces and extends knowledge in Number and Quantity, Algebra, Functions, Statistics and Probability, and Geometry. Emphasizing quantitative reasoning and practical applications, students will analyze situations, devise strategies, and build mathematical confidence. Ideal for juniors and seniors not pursuing calculus pathways, this course fosters perseverance and equips students with essential skills for postsecondary education and career success.*

**Course Fee:** \$10.00

**Grade:** 10, 11 & 12

**Credit:** 1 credit

**Length:** 1 year

**Special Note:** *This course is entirely group work, please be prepared to work with random students daily.*

## Computer Programming and Coding (MTH330)

**Prerequisite:** Algebra I and Geometry

*This course introduces students to the fundamentals of computer science and computational problem-solving, focusing on engaging and creative graphical problems. Designed for students with prerequisite skills in Algebra and Geometry, the curriculum requires no prior programming experience. Students will learn programming concepts through interactive lessons, hands-on exercises, and creative projects that emphasize problem-solving and innovation. Students will work in a browser-based development environment with tools like a custom graphics package, autograder, and editor/compiler to create and test their programs. This course is taught using the Python programming language.*

**Course Fee:** \$10.00

**Grade:** 11 & 12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *This class may be taken as an alternative to Algebra 2, but will not serve as a prerequisite for upper level math courses or college entrance.*

## Senior Math Concepts (MTH400)

**Prerequisites:** Algebra 1 and Geometry or equivalent.

*Mathematical skills will be taught to students to succeed in a variety of life and career tracks. Students will be expected to apply basic algebra and geometry concepts. Students will become proficient in financial literacy and will explore the math needed in potential career choices.*

**Course Fee:** None

**Grade:** 12

**Credit:** 1 Credit

**Length:** 1 yr.

**Special Notes:** *This course is designed for students who generally have difficulties in mathematics and are not planning on attending a 4 year college. Approval from a guidance counselor is necessary. A scientific calculator (like those purchased in middle school) is required.*

### PreCalculus (MTH420)

**Prerequisite:** Algebra 2 (Grade of A or B is preferred, see teacher with questions).

*This course introduces new methods of calculation and application of techniques learned in prior math courses to prepare students for college level mathematics. Students will be taught to simplify expressions, solve equations and inequalities, graph functions of all varieties, logarithms, trigonometry, and apply all techniques to real world situations.*

**Course Fee:** None

**Grade:** 11 & 12

**Credit:** 1 credit

**Length:** All year

**Special Notes** *A graphing calculator (TI-83, TI-84) is required. A strong background in Algebra 2 is recommended. THIS IS A FULL YEAR CLASS AND STUDENTS ARE REQUIRED TO COMPLETE BOTH SEMESTERS. Please carefully consider your goals and future plans before enrolling in this course.*

### Honors PreCalculus (MTH320)

**Prerequisite:** Algebra 2 (Grade of A or B is preferred, see teacher with questions).

*This course introduces new methods of calculation and application of techniques learned in prior math courses to prepare students for college level mathematics. Students will be taught to simplify expressions, solve equations and inequalities, graph functions of all varieties, logarithms, trigonometry, and apply all techniques to real world situations.*

**Course Fee:** None

**Grade:** 11 & 12

**Credit:** 1 credit

**Length:** All year

**Special Notes:** *This course carries a weighted grade. A graphing calculator (TI-83, TI-84) is required. A strong background in Algebra 2 is recommended.*

### AP Calculus (MTH500)

**Prerequisite:** PreCalculus (Grade of A or B is preferred, see teacher with questions).

*This course is designed to meet the requirements of most universities for Calculus credit. At the conclusion of the AP Calculus series, students will have the opportunity to take the Advanced Placement Calculus Exam, which may earn the student college credit. This course will cover relations, functions, limits, L'Hospital's rule, continuity, and differentiation of algebraic and trigonometric functions, related rates, applications of differentiation, advanced curve sketching, Sigma Notation, basic integration with Riemann Sums, The Fundamental Theorem of Calculus, slope fields, applications of integration, areas between curves, volumes of revolution by disk and washer method, volumes by integrating a known cross-section, differentiation and integration of transcendental functions and other advanced integration techniques. There will also be an intense study of sample AP questions in preparation for the AP Exam.*

**Course Fee:** \$50.00

**Grade:** 12

**Credit:** 1 credit

**Length:** full year

**Special Notes:** *A graphing calculator (preferably TI-83, TI-84) is required. This course carries a weighted grade. Course fee includes a nonrefundable deposit for the AP Exam.*



## AP Statistics (MTH510)

**Prerequisite:** Algebra 2 (Grade of A or B is preferred, see teacher with questions)

*This course is designed to meet the requirements of most universities for Statistics credit. At the conclusion of AP Statistics, students will have the opportunity to take the Advanced Placement Statistics Exam. This course will cover data collections, methods for describing data distributions, probability, statistical inference, sampling variability, sampling distributions, estimating populations' proportions, population mean, experimental data, and categorical data. There will also be an intense study of sample AP questions in preparation for the AP Exam.*

**Course Fee:** \$50.00

**Grade:** 11-12

**Credit:** 1

**Length:** full year

**Special Notes:** *A graphing calculator (preferably TI-83, TI-84) is required. This course carries a weighted grade. Course fee includes a nonrefundable deposit for the AP Exam.*

## Statistics (MTH600)

**Prerequisite or Corequisite:** Algebra 2

*This course is designed to provide the student with a comprehensive overview of introductory statistics and probability in areas such as sociology, business, ecology, economics, education, medicine, psychology, and mathematics. A special effort is made to make concepts of statistics available to students who are not prepared for elaborate symbolism or complex arithmetic.*

**Course Fee:** None

**Grade:** 10, 11 & 12

**Credit:** 1/2 credit

**Length:** 1 Semester

**Special Notes:** *A graphing calculator (preferably TI-83 or TI-84) is recommended (not required).*

## Math 4 (MTH602)

**Prerequisite:** Algebra 2

*Math 4 will focus on the application of math in the real world, prepare students for college entrance exams, placement tests and help students feel math ready as they begin their post-high school goals. This course is a brief review of Algebra I, Algebra II, and Geometry. Students will study the number systems, linear equations, systems of equations, quadratics, exponential functions, fundamental geometry concepts, and some very basic trigonometric identities. Students will also focus on preparation for the math portion of the ACT and SAT tests.*

**Course Fee:** None

**Grade:** 12

**Credit:** 1/2 credit

**Length:** 1 Semester

**Special Notes:** *A graphing calculator (preferably TI-83, TI-84) is required.*

## Financial Mathematics (MTH606)

**Prerequisite:** Alg. 2

*This course will provide students with the skills and general understanding of all key aspects of personal finances necessary to be successful now and throughout their adult lives. This will be achieved by introducing topics, examining real-world situations, and application of those skills. Topics covered include: savings, banking, payment types, credit scores, financing higher education, renting vs. owning, insurance and taxes, consumer protection and investing. The structure of this course will reflect real-world situations as closely as possible.*

**Course Fee:** None

**Grade:** 12

**Credit:** 1/2 credit

**Length:** 1 semester

## Sports Data and Stats (MTH604)

**Prerequisite:** Alg. 2

*In this fun-filled semester-long course, we will dive into the data, statistics, analytics, and logistics that go on both on and off the playing field. From current events to past events, we will discover the true meaning of numbers in sports, using our common knowledge of mathematics to guide us along the way.*

**Special Note:** This course may be taken only by junior and seniors who have earned, or are in the process of earning their 4th math credit.

**Course Fee:** None

**Grade:** 11 & 12

**Credit:** 1/2 credit

**Length:** 1 semester

# MEDIA ARTS



## School Yearbook:

**Prerequisite:** Students must be able to work independently and stay on task.

*Students will produce the CHS Yearbook: ANILEC. During this process students will develop skills in graphic design, design software, digital photography, journalistic writing, basics of advertising and ad design, public relations, leadership and team building skills. Students will work both individually and in cooperative groups throughout this course. Students enrolling in this course should have an interest in furthering their technology skills.*

**Course Fee:** \$10.00

**Grade:** 9-12

**Credit:** ½ per semester

**Length:** 1 semester

## Media Arts: Bulldog Beat

*Students in this course will learn to write, edit and produce a school-wide weekly newscast. Students will also learn to produce and maintain online media platforms. Students will learn to evaluate media productions for credibility and integrity. The course will focus on developing communication and critical thinking skills, well as leadership and team building skills. Students will work both individually and in cooperative groups throughout this course. Students enrolling in this course should have an interest in furthering their technology skills.*

**Course fee:** \$20.00

**Grade:** 9-12

**Credit:** 1

**Length:** 1 semester

# MUSIC



## **Band (MUS601)**

**Prerequisites:** *Participation in Band during the previous school year and/or approval of the instructor. Participation in summer and after school or other non-school hour rehearsals and performances are a requirement of the course.*

*Attendance at Band Camp is mandatory. Please check your calendar before registering.*

*Band is a full-year course. During the first nine to ten weeks of the year, all students will participate in the Marching Band. During October, students will be auditioned for placement in either Concert or Symphonic Band (for advanced students) for the remainder of the year (enrollment/instrumentation permitting). Students will learn instrumental technique and perform a variety of music in both large and small ensembles. By their participation in band, students will also be eligible to participate in Jazz Band, Solo and Ensemble Contest, and other optional groups and performances.*

**Course Fee:** None

**Grade:** 9-12

**Credit:** 1 credit

**Length:** 1 year

## **Jazz Band (MUS604)**

**Prerequisite:** *Membership in either Concert or Symphonic Band. Expect travel and extra performances.*

*Must have permission from the band director.*

*Jazz Band offers students an opportunity to perform music not normally covered in other bands and prepare them for actual playing in professional dance and show bands. The course will include: pop, rock and jazz music of today, and the past styles of the "BIG BANDS".*

**Course Fee:** TBD

**Grades:** 9-12

**Credit:** 1 credit

**Length:** 1 year

## **Concert Choir (MUS623)**

**Prerequisite:** None

*This course is intended to provide students in grades 9– 12*

*an opportunity to build strong foundations in vocal music through performance in a large mixed-voice choir.*

*This course challenges students to develop healthy vocal technique, increase music literacy and sight-reading, master concert etiquette, and explore a large variety of choral literature. Literature for this course ranges from sacred to secular, in English and foreign language (Latin, Italian), including works from the Renaissance Period (15<sup>th</sup> century) through the 21<sup>st</sup> century.*

**Course Fee:** \$10.00

**Grade:** 9, 10, 11, 12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *Annual performances: Fall Classics Concert, Messiah Performance, Solo and Ensemble, Choral/Festival Concert, Spring Pops Concert. Private voice instruction is encouraged.*

### Chamber Choir (MUS625)

**Prerequisite:** AUDITION ONLY; completion of 1 year of Concert Choir.

*This course is intended to provide students possessing advanced or outstanding vocal ability with the opportunity to perform challenging and demanding choral repertoire in a small ensemble (16-24 singers). This course demands dedication, leadership, maturity, and the desire to strive for perfection in performance. Literature for this course ranges from sacred to secular, in English and foreign languages (Latin, Italian, German, French and others), and will include works from the 15th century to the 21<sup>st</sup> century. Additional hours may be required for students in this ensemble **outside** of the school day.*

**Course Fee:** \$10.00

**Grade:** 10-12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** Approximate cost (depending upon choice by the students) - \$60.00 to \$120.00. Annual performances: Fall Concert, Christmas Concert/Messiah Performance, Solo and Ensemble Adjudicated Event, Spring Concert, and a Pops Concert.

### A Capella Pop (MUS621)

**Prerequisite:** Permission of Instructor

*Join the A Cappella Pop Choir to explore modern pop music through the power of voice! This year-long class focuses on singing popular songs without instruments and developing harmonies. Improve vocal technique, ear training, and performance skills in a fun, collaborative environment. This choir offers a great opportunity to sing contemporary hits and showcase your talent!*

**Course Fee:** None

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** Prior musical experience including the ability to read music is highly recommended, but not required.

### Music Theory I (MUS641)

**Prerequisite:** Permission of Instructor

*This course is a study of the 'nuts and bolts' of how music is put together. This course will cover basic notation, concepts of meter, chord progressions, voice leading, compositional form, basic orchestration, and basic compositional technique through the study and imitation of master composers of various musical style periods rhythm, scales, keys, modes, tonality, and chord structure. Also included will be basic piano skills and sight-singing. This rigorous course is designed to prepare prospective college music majors for college level study.*

**Course Fee:** None

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** Prior musical experience including the ability to read music is highly recommended, but not required.

## History of Pop Music (MUS643)

Prerequisite: None

*The phenomenon of “popular music” is a comparatively recent development in western culture. This course will cover all forms of American popular music from the 1890’s to present day, including Military Bands, Tin Pan Alley composers, Jazz, Blues, Rhythm & Blues, Country, Rock, Disco and others. Distinct emphasis will be placed on societal, political, cultural and technological developments and their effects on the music of the times.*

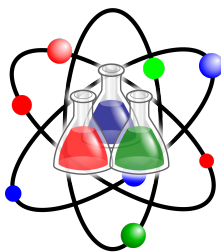
**Course Fee:** NONE

**Grade:** 9-12

**Credit:** ½ credit

**Length:** 1 semester

# SCIENCE



## Physical Science (SCI110)

**Prerequisite:** None

*This course is designed to introduce students to the science that deals with the composition, structure, properties, interactions and transformations of matter. Students will experience hands-on science through laboratory investigations and class activities. Physics topics covered will include: motion, force, laws of motion, energy, heat, waves, and electromagnetic radiation. Chemistry topics covered will include: classification of matter, properties of atoms and the periodic table, chemical bonds, chemical equations and nuclear change.*

**Course Fee:** \$14.00

**Grade:** 9

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** This course is required for all CHS students except those pre-selected for other science courses.

## Honors Biology (SCI120)

**Prerequisite:** Student must have completed Algebra 1 in the 8<sup>th</sup> grade and have the recommendation of the 8<sup>th</sup> grade science teacher

*This course is an advanced level of biology intended for freshmen students who have a particular interest in science. This course is designed to present scientific facts, concepts and principles relating to biology, placing emphasis on laboratory work to allow students to discover science rather than learn only the facts, developing the powers of critical reasoning. Content will include cellular structure, function, reproduction, and energy formation; Mendelian genetics, molecular genetics, biotechnology, evolution, organizing life's diversity, ecology, populations, and biodiversity while emphasizing a variety of themes including scientific inquiry, diversity, energy, homeostasis, and change.*

**Course Fee:** \$36.00

**Grade:** 9 & 10

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** This course carries a weighted grade.

**Students enrolled in this course will take a state mandated End of Course exam.**

**In order to meet all graduation requirements ALL students in this course must enroll in CHEMISTRY for the 10<sup>th</sup> grade year.**

## **Biology (SCI210)**

**Prerequisite:** Physical Science.

*This course is designed to present scientific facts, concepts and principles relating to biology, placing emphasis on laboratory work to allow students to discover science rather than learn only the facts. Content will include cellular structure, function and reproduction; Mendelian genetics and human heredity; and molecular genetics, evolution, organizing life's diversity, ecology and biodiversity, emphasizing a variety of themes including scientific inquiry, diversity, energy, homeostasis, and change.*

**Course Fee:** \$36.00

**Grade:** 10, 11, &12

**Credit:** 1credit

**Length:** 1 Year

**Students enrolled in this course will take a state mandated End of Course exam.**

## **Chemistry (SCI310)**

**Prerequisite:** Honors Biology or Biology and student must have completed or be in Honors Algebra 2 or Algebra 2.

*This course is intended to provide the student with a general overall view of the field of chemistry, the study of matter, and its changes. Students will cover the topics of atoms, periodicity, bonding, formula writing, nomenclature, quantities, chemical reactions, stoichiometry, phases of matter, water, mixtures, solutions, equilibrium, oxidation-reduction, and acid-base. Special emphasis will be placed on lab work.*

**Course Fee:** \$42.00

**Grade:** 10, 11, &12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** A graphing calculator is recommended. An online homework service is used in this course.

**This course contains an additional period one semester for lab work.**

## **Physics (SCI410)**

**Prerequisite:** Honors Biology or Biology, Chemistry and student must have completed or be in Honors Algebra 2 or Algebra 2.

*This course is intended to give a general view of the topics of physics—the study and measurement of the relationship between matter and energy. Topics will include motion, force, momentum, energy, heat, wave transfer of energy, physical optics, electricity, & nuclear energy.*

**Course Fee:** \$41.00

**Grade:** 11 & 12

**Credit:** 1 credit

**Length:** 1Year

**Special Notes:** A graphing calculator is recommended.



### **Physiology 1 (SCI300)**

**Prerequisite:** Biology or Honors Biology

*This course is intended to introduce the principles of sports medicine to students that have a specific interest in the field of medicine, physical or occupational therapy, and/or athletic training. The course is designed to cover the musculoskeletal body anatomy and injuries common in sports and in young athletes. Concepts and applications emphasize throughout the course will include: anatomy and physiology of muscle and bone, body characteristics and mechanisms of injury, recognizing the signs and symptoms of sports injuries, emergency procedures in sports, taping and orthotics, basic applications of therapeutic modalities, and basics in exercise rehabilitation.*

**Course Fee:** \$10.00

**Grade:** 10, 11, &12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** Students must be available to train during enrollment in this class.

### **Physiology 2 (SCI400)**

**Prerequisite:** Physiology 1

*This course is intended to expand on the content from Physiology 1. We will review musculoskeletal anatomy, emphasizing the rehabilitation aspects of athletic injuries of the body. Students will focus on developing an understanding of evaluating injuries using special testing, and forming rehab plans based on principles of tissue healing, pain control, and a deeper understanding of the principles of modalities commonly used in sports medicine.*

**Course Fee:** \$10.00

**Grade:** 11 & 12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** Students must be available to train during enrollment in this class.

### **Human Anatomy (SCI602)**

**Prerequisite:** Biology or Honors Biology

*This course is intended for students interested in the branch of science that provides an extensive and detailed study of the numerous organ systems of humans. This rigorous course explores an introductory understanding of anatomical structures and physiological interactions of human body systems. Students will be working with specific organ dissection and the systematic dissection of a mammal.*

**Course Fee:** \$17.00

**Grade:** 10, 11, &12

**Credit:** 1/2 credit

**Length:** 1 Semester

**Special Notes:** A grade of C or better in Biology is strongly recommended.

### **Zoology (SCI604)**

**Prerequisite:** Biology or Honors Biology

*This course will introduce the student to the Kingdom of animals, from invertebrates to mammals. Starting with the classification of animals, this class will explore the diversity of each animal phyla, covering unique evolutionary adaptations, comparative anatomy, energy requirements, methods of homeostasis and functions of the body systems.*

**Course Fee:** \$12.00

**Grade:** 10, 11, &12

**Credit:** 1/2 credit

**Length:** 1 Semester

**Special Notes:** This class will have an extensive dissection component.

### **Biotechnology (SCI608)**

**Prerequisite:** Biology or Honors Biology.

*This course is intended to provide an overview of the basic practices and analysis techniques used in biological sciences. The fundamental objective is to teach the basic processes and principles of scientific thinking and apply them to problem solving. This lab centered program will include modern techniques used by biotechnologists and will develop skills in the use of electronic laboratory instrumentation and record keeping.*

**Course Fee:** \$12.00

**Grade:** 10, 11 & 12

**Credit:** 1/2 credit

**Length:** 1 Semester

### **Forensics I (SCI610)**

**Prerequisite:** Biology or Honors Biology

*This course is designed to provide an overview of the basic practices and analysis techniques used in forensic sciences. The fundamental objective is to teach the basic processes and principles of scientific thinking and problem solving. This lab centered program will include the use of modern techniques used by forensic scientists and will develop skills in evidence collection, preservation, analysis, and documentation in a legal scientific notebook.*

**Course Fee:** \$12.00

**Grade:** 10, 11, & 12

**Credit:** 1/2 credit

**Length:** 1 Semester

### **Forensics II (SCI611)**

**Prerequisite:** Completion of Forensics I with a C or better

*This course will provide further instruction in the practices and analysis techniques used in forensic science and will review and master techniques from Forensic I. Students will use the scientific method and critical thinking skills to solve forensic mysteries through evidence collection, preservation and analysis. In addition students will learn about professional practices used in forensic science, and will explore career options in this field.*

**Course Fee:** \$12.00

**Grade:** 11, & 12

**Credit:** 1/2 credit

**Length:** 1 Semester

### **Advanced Placement Biology (SCI 500)**

**Prerequisite:** B+ or above in Biology, Chemistry, and Algebra. Human Anatomy is also recommended.

**Recommendation from Biology and Chemistry teacher required.**

*Students will cover a curriculum comparable to a freshman level college biology course. At the conclusion of this course, students may take an AP exam and potentially be awarded college credit based on their score on the exam.*

**Course Fee:** \$97.00

**Grade:** 11 & 12

**Credit:** 1

**Length:** 1 year

**Special note:** This class will include an additional “lab” period during the first semester. Course fee includes a nonrefundable deposit for the AP Exam. This course carries a weighted grade.

### **Advanced Placement Chemistry (SCI 510)**

**Prerequisite:** *B or above in Biology, Chemistry, and Algebra and recommendation from Chemistry teacher. Must have completed Algebra II.*

*Students will cover a curriculum comparable to a freshman level chemistry course. At the conclusion of this course students will have an opportunity to take the AP Chemistry exam. Based on the score of this exam students may be awarded college credits.*

**Course Fee:** \$102.00

**Grade:** 11 & 12

**Credit:** 1

**Length:** 1 year

**Special Notes:** *A graphing calculator is recommended. An online homework service is used in this course. This class will include an additional “lab” period during the first semester. Course fee includes a nonrefundable fee for the AP exam. This course carries a weighted grade.*

### **Environmental Science (SCI320)**

**Prerequisite:** Biology

*This class is an interdisciplinary study, combining ideas and information from geology, environmental sciences and ecology to gain an understanding about different landscapes across the globe. This course is designed to teach environmental, ecological and geological sciences by exploring different locations across the globe and how these sciences interact with one another.*

**Course Fee:** \$12.00

**Grade:** 10, 11, & 12

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *This course is for students who would struggle with the content of faster paced science courses. Students may ONLY be placed in this course by their counselor or by their most recent science teacher.*

# SOCIAL STUDIES



## American History (SST100)

**Prerequisite:** None

*This course will emphasize important events in American History ranging from the Industrial Revolution through the Cold War. Topics will include the Industrial Revolution, the Progressive Movement, Imperialism, World War I, the Roaring Twenties and the Red Scare, the Great Depression and the New Deal, WWII, and the Cold War.*

**Course Fee:** None

**Grade:** 9

**Credit:** 1 credit

**Length:** 1 year

**Special Note:** *Required for Graduation*

**Students enrolled in this course will take a state mandated End of Course exam.**

## World Studies (SST200)

**Prerequisite:** None

*This course provides a foundation for a general understanding of contemporary affairs in the world. There will be particular emphasis on the prevailing themes of history including the Age of Absolutism, the Enlightenment, the Age of Revolution, Industrialization, and Imperialism. These themes will be used to encourage students to reflect upon and understand the world around them.*

**Course Fee:** None

**Grade:** 10

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Note:** *Required for Graduation*

## American Government (SST300)

*This course is an examination of the foundation and framework of the American government. Content includes a study of various forms of government, the American Constitution and other foundational documents, federalism, roles and powers of the three branches of government, and an examination of the rights and responsibilities of American citizens. The primary goal is to get students involved in the political process.*

**Course Fee:** None

**Grade:** 11

**Credit:** 1 credit

**Length:** 1 year

**Special Notes:** *Required for Graduation*

**Students enrolled in this course will take a state mandated End of Course exam.**

## AP Government (SST500)

**Prerequisite:** Permission of instructor

*Advanced placement government is equivalent to a college freshman political science course. The course is more rigorous than the regular government alternative and is designed to prepare students for successful performance on the Advanced Placement exam. Topics covered will include various forms of government, the American Constitution and other foundational documents, federalism, roles and powers of the three branches of government, and an examination of the rights and responsibilities of American citizens.*

**Course Fee:** \$50.00

**Grade:** 11

**Credit:** 1 credit

**Length:** 1 year

***Students enrolled in this course must take the AP History Exam. The course fee includes the fee for the exam. This course carries a weighted grade.***

## Psychology 1 (SST600)

**Prerequisite:** None

*This course is designed to provide students a survey of psychology that will be personally interesting and useful to individual students. Anyone interested in the human mind and how it works will find this course interesting.*

*Topics will include I.Q., personality, parapsychology, hypnosis, learning, and conditioning among others.*

**Course Fee:** None

**Grade:** 10-12

**Credit:** 1/2 credit

**Length:** 1 Trimester

***10<sup>th</sup> graders wishing to enroll must have approval of the instructor.***

## Psychology 2 (SST602)

**Prerequisite:** Psychology 1

*This course examines the make-up and behaviors of the individual by examining human development, the biology of Psychology, nature vs. nurture, perceptions, emotions, and motives, conflicts and our adjustments to them, including the psychological disorders and their possible treatment. This course is primarily intended for the college bound student that would like to become familiarized with the concepts of Psychology before they begin their college studies.*

**Course Fee:** None

**Grade:** 12

**Credit:** 1/2 credit

**Length:** 1 Trimester

## Sociology 1 (SST604)

**Prerequisite:** None

*Sociology is the social science that studies human society and social behavior. The focus of the course is social interaction, how people relate to one another and influence each other's behavior. This course is strongly recommended for all students who intend to pursue a college or university degree, and also those students who wish to focus on the law or law enforcement, social work, education and medicine. Topics include social change, values, personality development, family function and dysfunction, domestic violence, peer influence, mass media, dating, teenage dating, teen social problems, deviance, crime, suicide, socioeconomic class, poverty, race, violence, religion, economy, politics, science, and communication skills.*

**Course Fee:** None

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

### Civil War History (SST612)

**Prerequisite:** American History A and B

*This course is intended to present a background in the causes and effects of the American Civil War, as well as the conflict itself and the social, political, and economic ramifications of the war.*

**Course Fee:** None

**Grade:** 10, 11, 12

**Credit:** 1/2 credit

**Length:** 1 semester

### Civil Rights (SST614)

**Prerequisite:** None

*This course will reflect the many ways African Americans, Native Americans, Hispanics, Asians, and women have been discriminated, feared, and hated in American society from 1619 through the present. Analyses of Civil Rights leadership, organizations, recruitment, commitment, values, ideology, political culture, gender, and counter movements will be the focus of this class.*

**Course Fee:** None

**Grade:** 10, 11 & 12

**Credit:** 1/2 credit

**Length:** 1 semester

**Special Notes:** A laptop or other internet capable device is recommended for this course

### World Wars and the Holocaust (SST616)

**Prerequisite:** None

*This course will cover the events before, during and after World War I & II. Of special focus will be the Holocaust and study of the background, events and aftermath of this period in history. Students will discover this period of history through film, podcasts, discussion, guest speakers, projects and field trips.*

**Course Fee:** NONE

**Grade:** 10-12

**Credit:** ½ credit

**Length:** 1 semester

# EDUCATIONAL OPTIONS



## Media Center Worker (EDO460)

**Prerequisite:** Permission of Media Center Director

*Students in this course will spend one period working in the media center, learning various managerial, organizational, and interpersonal skills.*

Course Fee: None

Grade: 10-12

Credit: 1/4 credit

Length: 1 semester

## Academic Intervention: (AI100/AI200)

Prerequisite: NONE

*Students will work on course homework, study for tests and quizzes and receive extra help as **needed***

**Course Fee:** None      **Grade:** 9-12

**Credit:** none      **Length:** 1 semester or 1 year

**Special Note:** Students may be scheduled for no more than one period of Academic Intervention per semester.

## FTA Teacher Assistant: (EDO701/EDO702)

*Teacher assistants will be assigned a teacher at the Elementary School (K-6) or Middle School. Students will assist by tutoring students, preparing materials and other tasks as assigned by the cooperating teacher. Enrollment based on approval by the FTA coordinator or the school counselor.*

**Absences and disciplinary records may affect eligibility.**

**Course Fee:** None      **Grades** 10, 11 and 12\*

**Credit:** ¼ per semester      **Length:** 1 or 2 semesters

## Senior Early Release (EDO901 & EDO 902)

*Seniors in good academic standing may request an early release for the 7<sup>th</sup> period. Requests for this course cannot be guaranteed, and placement may be dependent upon other courses on the schedule. Early release may be revoked by a principal as needed to ensure that students remain on track to graduate.*

**Course Fee:** None      **Grade:** 12

**Credit:** NONE      **Length:** One or two semesters

# TRI STAR

## CAREER COMPACT

### **Agricultural Industry Technology**

*Ag. Industrial Technology (formerly Ag. Mechanics), is a two-year STEM program that trains students to troubleshoot agricultural equipment as well as introduces them to the business end of the servicing industry. Students receive forklift training/certification and also work on Commercial Drivers License (CDL). Students also compete against other schools in FFA competitions for prizes and scholarships.*

**TO PREPARE FOR THIS CLASS:** Take agricultural-related or industrial technology classes.

### **Animal Health**

*Animal Health is a two-year STEM program which provides training in the field of animal science, veterinary medicine and the animal industry. Students study animal health, nutrition and behavior, anatomy and physiology, medical terminology, medical conditions and diseases, safety and sanitation, grooming and handling. They learn to assist with physical and clinical exams, hospital and laboratory procedures and minor surgery. The class will also include office or business management skills in maintaining records, inventory, pharmaceuticals and equipment and supplies. Qualifying seniors may participate in a capstone project.*

**TO PREPARE FOR THIS CLASS:** Students are required to successfully complete a biology class prior to or during the junior year. It is also helpful to take as many math and science classes as possible plus agricultural related classes

### **Automotive Technology**

*Auto Tech is a two-year NATEF/ASE certified program which covers the diagnosis, repair, and maintenance of cars, trucks and other vehicles. Junior students develop skills through hands-on experience with gasoline combustion engines, automotive service and brake work. Seniors study automotive technology in greater depth including servicing electrical systems, engine performance, suspension and steering and heating and air conditioning. They can earn ASE Student Certifications in five (5) of eight ASE auto areas. Automotive Technology is a STEM program. Qualifying seniors may participate in early job placement.*

**TO PREPARE FOR THIS CLASS:** Math, science and communication classes would be very helpful. An industrial technology background and an interest in motors/vehicles is great too



## Career Based Intervention (CBI)

Career Based Intervention (CBI) is a work study program that provides students with the opportunity to attend core classes at their home school as well as CBI class and includes the possibility of early release for their CBI work experience. The work experience component offers students the ability to attend school ½ day and work ½ day and receive credit for both. CBI students are introduced to the growing needs of the local workforce while attaining critical financial planning skills that they will need for life. Students also get a chance to develop valuable soft skills that they often use.

**Special Note:** To take this course you must meet state qualifications. To join this class you **MUST** complete a TriStar application and submit it to your school counselor.

## Construction

Construction is a two-year program which covers all aspects of the construction industry including: safety procedures, building codes, practical math, carpentry, interior finishing, framing, roofing, plumbing and heating, electricity, house wiring, concrete work, masonry, use of hand and power tools, techniques of home design and building materials - differences and costs. The first year is spent introducing students to the basic fundamentals of construction through a variety of hands-on experiences. Senior students gain practical, real-world experience applying the skills they have learned by constructing a single-family home, from foundation to finish, which is sold at auction each spring. Qualifying seniors may participate in early job placement.

**TO PREPARE FOR THIS CLASS:** A strong background in industrial technology including a drafting class is helpful.

## Engineering Technology

Engineering Technology is a two-year program which may be taken one year as well (in either the junior or senior year). Classwork consists of manual sketching, problem solving, and drawing on the Computer Assisted Drafting (CAD) system using AutoCAD-mechanical, Inventor Solid Modeling software, Fusion 360, Revit, and Corel DRAW. Students study basic electrical and circuit design, Arduino programming, and how to use 3-D printers and an Epilog laser engraver. In collaboration with the welding program, students learn basic welding skills, Torchmate software, and how to operate a computer controlled plasma cutter. During the second year students complete a capstone project and have the opportunity to participate in work study in which they work directly with an engineer. Engineering Technology is a STEM program.

**TO PREPARE FOR THIS CLASS:** Take three math classes (one must be geometry). Classes in computer literacy and mechanical drawing will also be helpful.

## Graphic Communication

Graphic Communications is a two-year program in which students develop the technical and creative skills necessary to compete in today's technology-driven and fast-paced multibillion-dollar creative and print industry. Class projects utilize real-world scenarios and provide hands-on experience with the latest Adobe products taking design concepts all the way through to production. Students create a portfolio of their work to showcase their skills for employment or college interviews.

**TO PREPARE FOR THIS CLASS:** Take classes in communications as well as basic computer literacy classes. Creative thinking, problem solving and communications skills are important and an interest in art or photography is helpful.

## Information Technology/Cybersecurity

InformationTechnology/Cybersecurity students will train in the fundamentals of computer networking and the use of cybersecurity components to detect, mitigate, and protect against vulnerabilities and attacks of information technology systems. Areas of study will include information technology, networking/network security, cybersecurity, and cybersecurity defense and reinforcement, cryptography, and digital forensics. Jobs can be found just about everywhere computers are in use including healthcare companies, corporations, banks, airports, local, state and federal government, businesses and insurance companies. Students prepare for CompTIA A+, CompTIA Security +, and CompTIA Network + certifications in this program. I.T. Cybersecurity is a STEM program.

**TO PREPARE FOR THIS CLASS:** Start with classes in computer literacy or keyboarding. Additional computer classes, especially Microsoft Office would be helpful.

## Interactive Media

Interactive Media ... Are you creative? Do you like to work with the latest technology? In this two-year program students create multi-media productions such as videos, motion graphics, 3D modeling, animation, and websites. They work in the Adobe Creative Cloud programs for photo editing and graphic design to integrate into their projects. Students get hands-on experience in the program's new sound booth and green screen/video room. They learn about marketing strategies and social media management plus those who are interested in programming will have an opportunity to learn the basics! Students prepare for Adobe certifications in AfterEffects, Animate, Dreamweaver, Illustrator, InDesign, Photoshop, and Premiere Pro. Interactive Media is a STEM program.

**TO PREPARE FOR THIS CLASS:** Take art and computer classes. An interest in art and design is a plus.

## Marketing Education

Marketing Education, is a two-year program for students interested in marketing and product or service distribution careers. The junior level is spent in the classroom. In the senior year, students spend 5 periods per week in a classroom and at least 12 hours per week at a work site.

**TO PREPARE FOR THIS CLASS:** Take business classes.

## Med-Prep

Med Prep is a two-year college prep program in which students gain knowledge and experience in the medical professions through hands-on classroom work and observation at area health care facilities during both the junior and senior years. Areas of study include anatomy, physiology and pathophysiology, phlebotomy, medical terminology/abbreviations, human growth and development, first aid, CPR, professional ethics, and students learn to use various types of medical equipment. Med Prep is a STEM program.

**TO PREPARE FOR THIS CLASS:** Take Biology I, Math, Algebra I and II, Geometry (required for X-ray) and 1/2 credit of computers.

## Manufacturing and Machining Technologies

*Precision Machining... Machining is a process that takes raw material, often metal or plastic, and transforms it into a desired shape and size. If you've ever used a nail file, flown in an airplane, or jotted down notes with a pen, you can probably thank a machinist for it. Students will learn how to operate modern metalworking machine tools such as lathes, mills, drills, and grinders, and computer numerical controlled and programmable equipment in this program. They gain the necessary experience they need to start a career in this in-demand career field. Students will have the opportunity to test for OSHA-10 certification.*

**TO PREPARE FOR THIS CLASS:** Take industrial technology classes (especially in the metals area) and as many math classes as possible.

## REC TECH - Robotics, Electronics, & Computer Technology

*REC Tech is a two-year Tech Prep program in which students receive a strong background in electronics/electrical systems, mobile and industrial robotics and automation, and computer systems and basic networking. Students will study FANUC Robots using teach pendant as the main interface point. They will learn the basic tasks/procedures to set-up, teach, test and modify iRVision applications on FANUC robotics. The program covers the repair and maintenance of computers and other electronic/electrical systems, the study of PLCs (Programmable Logic Controllers), and students will also learn to program microcontrollers such as basic stamps, Raspberry Pi, PICs and Arduino. Seniors will have the opportunity to build a computer, install operating systems and configure networks.*

**TO PREPARE FOR THIS CLASS:** Take Algebra I, a computer applications course, and an industrial technology course that includes basic drawing or a CAD course

## Teaching Professions

*The two-year Teaching Professions program is designed for students who are interested in a career in education: teaching, school administration, or guidance counseling. Students study children of various ages and abilities, how they learn, and how to plan appropriate activities and write lesson plans utilizing the Ohio Department of Education Learning Standards. Qualifying students will be placed in various classrooms within the nine Tri Star feeder districts to gain practical experience in teaching children.*

**TO PREPARE FOR THIS CLASS:** Early childhood education classes would be helpful. Students should be able to read and write, at the minimum, a 5th grade level.

## Welding

*Welding is a two-year program that gives you the technical knowledge and practical skills to enter the field of welding and metal fabrication. During the junior year of the program, students concentrate on safety instruction and the fundamentals of each welding process: GMAW, SMAW, GTAW, AND FCAW. Seniors tackle out of-position techniques and more complex concepts of welding. Employability skills are also taught as part of the class. Students can earn OSHA-10 certification in this program and test for AWS accreditation. Qualifying seniors may participate in the early job placement program.*

**TO PREPARE FOR THIS CLASS:** Previous welding experience from an Industrial Technology class would be helpful.



# CCP @ CHS

## Academic Reading and Writing (ENG1100 WSU)

**Prerequisite:** Students who enroll in this course must meet the eligibility requirements for Wright State University. Students are required to submit an application and transcript directly to the college. Students will earn 1 high school credit and 3 college credits for successful completion of this course.

*Introduces students to principles of effective multi-literacy practices required of college-level thinkers, writers, readers, and communicators. Students are introduced to writing for different contexts with an emphasis on the differences between informal writing and formal, revised, research-based academic writing. Students are taught how to apply the writing process to plan a longer writing project, conduct college-level research, organize drafts, incorporate sources into their writing, give feedback to peer writers, receive feedback from peer writers, and refine their writing style for different audiences and purposes.*

**Course Fee:** None

**Grade:** 7-12

**Credit:** 1

**Length:** 1 semester

## Research Writing and Argumentation (ENG2100 WSU)

**Prerequisite:** Admission to Wright State University AND completion of ENG1100 with a C or above. Students will earn 1 high school credit and 3 college credits for successful completion of this course.

*Adapts principles introduced in ENG 1100 to writing in the disciplines. Extended instruction of effective multi-literacy practices required of intermediate college-level thinkers, writers, readers, and communicators. Students conduct more advanced research in their chosen or intended discipline and use multiple scholarly sources in a series of extended research-based genres for different audiences and purposes. Students plan, draft, and revise longer and more complex projects. Students give and receive feedback from peer writers in their own discipline and across disciplines.*

**Course Fee:** None

**Grade:** 7-12

**Credit:** 1

**Length:** 1 semester