



**Canal Winchester High School
Program of Studies
2023-24**



Canal Winchester

LOCAL SCHOOLS

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Dear Students and Parents,

The Canal Winchester High School Academic Handbook provides information to assist in choosing courses to meet graduation requirements and to prepare for possible career pathways after high school.

We encourage students to take the time to look over the course offerings and engage in discussion with their parents about preparing for a future after graduation. While students must take certain required courses for graduation, our hope is that students are also able to explore different areas of interest. Students should choose courses that will be challenging and lay the groundwork for their chosen E: enlistment, enrollment or employment. Please talk with your teachers, school counselors, and principals about your goals for the future and the courses needed to reach those goals.

Changes have been made to course offerings to align with new state graduation and testing requirements. In addition, the high school is offering courses geared towards specific career pathways after high school.

Please refer to the information provided in this handbook to check your progress and to stay on track for meeting the graduation requirements.

Our goal is for each student to be prepared for their future after high school, whether that is enlistment, enrollment or employment. If you have questions, don't hesitate to contact one of our staff members.

Sincerely,
The Canal Winchester High School Staff

Graduation Requirements

CLASS OF 2023 AND BEYOND

The Ohio Department of Education recently introduced new graduation requirements for the class of 2023 and beyond. There are three areas that students must complete to graduate in the state of Ohio. Students must complete 21 high school credits, demonstrate competency on the Algebra 1 and English Language Arts II end of course exams, and earn two graduation seals. Listed below is a further breakdown of each of these categories and the alternative pathways if students are unable to complete the requirements of a category.

Part 1: Course Completion

- 4 English Credits
- 4 Math Credits
- 3 Science Credits
- 3 Social Studies Credits
- 0.5 Financial Literacy Credits
- 0.5 Physical Education Credits
- 0.5 Health Credits
- 1 Visual or Performing Arts Credit
- 4.5 Elective Credits

TOTAL = 21 Credits

Part 2: Demonstrate Competency

- Algebra 1: Earn a score of 684 on the Algebra 1 end of course exam
 - Must retake at least once before pursuing another competency option
- ELA II: Earn a score of 684 on the ELA II end of course exam
 - Must retake at least once before pursuing another competency option

OR

- Career Experience and Technical Skill- Complete two demonstrations, one MUST be foundational
 - Foundational:
 - Earn a proficient score on 3+ WebXams in a single career pathway
 - Earn a 12-point approved industry-recognized credential in a single career pathway
 - Complete a pre-apprenticeship in the students career pathway; if 18 or older, show evidence of acceptance into an apprenticeship program after graduation
 - Supporting:
 - Complete 250 hours work based learning experience with evidence of positive evaluations
 - Earn the workforce readiness score on WorkKeys
 - Earn the OhioMeansJobs-Readiness Seal

OR

- Military Enlistment
 - Meet the requirements to enlist and prove so by a contract to enlist upon graduation

OR

- CCP- Earn a college credit in a non remedial math or English course

Part 3: Demonstrate Readiness

- Students must earn 2 diploma seals, one of which MUST be an Ohio State Defined Seal

OHIO STATE DEFINED DIPLOMA SEALS

<p style="text-align: center;">Military Enlistment Seal</p> <ul style="list-style-type: none">● Provide evidence of enlistment OR● Participate in an approved JROTC program	<p style="text-align: center;">Honors Diploma Seal</p> <ul style="list-style-type: none">● Earn one of six Honors Diplomas as defined by the Ohio Department of Education
<p style="text-align: center;">Industry Recognized Credential Seal</p> <ul style="list-style-type: none">● Earn a 12-point approved industry-recognized credential or group of credentials totaling 12 points in a single career field.	<p style="text-align: center;">Citizenship Seal</p> <ul style="list-style-type: none">● Earn a score of proficient or higher on both the American history and American government EOC exams OR● Earn a score that is at least equivalent to proficient on appropriate AP or IB exams OR● Earn a final course grade that is equivalent to a “B” or higher in appropriate classes taken through CCP
<p style="text-align: center;">OhioMeansJobs Readiness Seal</p> <ul style="list-style-type: none">● Meet the requirements and criteria established for the readiness seal, including demonstration of work-readiness and professional competencies.	<p style="text-align: center;">State Seal of Biliteracy</p> <ul style="list-style-type: none">● Meet the requirements and criteria, including proficiency requirements on assessments in a world language and English.
<p style="text-align: center;">College-Ready Seal</p> <ul style="list-style-type: none">● Earn remediation-free scores on the ACT or SAT. Visit ODE’s website to see current remediation-free scores.	<p style="text-align: center;">Science Seal</p> <ul style="list-style-type: none">● Earn a score of proficient or higher on the biology EOC exam OR● Earn a score that is at least equivalent to proficient on appropriate AP or IB exams OR● Earn a final course grade that is equivalent to a “B” or higher in an appropriate class taken through the CCP program.
<p style="text-align: center;">Technology Seal</p> <ul style="list-style-type: none">● Earn a score that is at least equivalent to proficient on an appropriate AP or IB exam OR● Earn a final course grade that is equivalent to a “B” or higher in an appropriate class taken through the CCP program OR● Complete a course offered through the district or school that meets guidelines developed by the Department. (A district or school is not required to offer a course that meets those guidelines.)	

LOCALLY DEFINED DIPLOMA SEALS

<p style="text-align: center;">Community Service Seal</p> <ul style="list-style-type: none"> • Will require tracked hours of volunteerism (minimum of sixty hours) • Hours may begin being tracked in 9th grade • Community volunteer log will need to be completed, hours verified by HS building principal, and uploaded into SchoolLinks; no relatives can verify volunteer hours • Students must choose from non-profit acceptable list of services (see CWHS website for approved list) • Students wanting to volunteer for non-profits outside of the list must have administrator/counselor pre-approval 	<p style="text-align: center;">Student Engagement Seal (Athletics)</p> <ul style="list-style-type: none"> • Specific criteria for Athletics: PE Waiver process including all current requirements and Activities • Complete two full seasons of activity verified by coach/advisor • Utilize the same process currently used for PE waiver
<p style="text-align: center;">Fine and Performing Arts Seal</p> <ul style="list-style-type: none"> • Earn 2.0 Fine Arts credits at the HS (includes visual or performing arts) in one area or 3.0 credits in multiple areas OR • Sixty hours of documented time on fine arts activities outside of class time. Must have pre-approval from administrator/counselor • Activity log will need to be completed, hours verified by instructor/director and uploaded into SchoolLinks; no relatives can verify activity hours 	<p style="text-align: center;">Student Engagement Seal (Organizations)</p> <ul style="list-style-type: none"> • Specific criteria for Clubs/other Activities (sixty hours) • Board approved Clubs & Activities • Those groups with advisors on supplemental contracts such as OMUN, Student Council, National Honor Society (see CWHS website for approved list) • Principal approved non-Board funded school activities: those clubs who have principal approval such as Indians Club, Spanish Club (see CWHS website for approved list) • Club/Activity log will need to be completed, hours verified by staff supervisor and uploaded into SchoolLinks

[Ohio's Graduation Requirements Long-Term Requirements 2023 and Beyond](#)

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 coursework and in real-world experiences.

Ohio students have the opportunity to choose to pursue one of six honors diplomas:

1. [Academic Honors Diploma](#)
2. [International Baccalaureate Honors Diploma](#)
3. [Career Tech Honors Diploma](#)
4. [STEM Honors Diploma](#)
5. [Arts Honors Diploma](#)
6. [Social Science and Civic Engagement Honors Diploma](#)

CWHS is awaiting guidance from the Ohio Department of Education on possible changes to the requirements for the honors diploma for the class of 2026 and beyond. Information will be shared with students and families once it is made available.

General Scheduling Information

Be sure to understand the course delivery method available for the course you are looking to take. Not all classes are offered in every method.

High School Course Delivery Methods:

- **S (Single)** - Traditional face-to-face class approximately 45 minutes and meets every school day.
- **O (Online)** - Created by CW teachers using CW curriculum and Canvas; will be asynchronous (no live teaching), but will have strict due dates throughout course; students may be required to come in for assessments

For Online courses students will **NOT** be scheduled into a class period but will complete the course independently and possibly outside of the normal school day. Students should consider time management skills and ability to work without supervision before signing up for this type of course. Online courses will allow students to take additional classes they may not originally have been able to fit into their schedule. **Courses may be canceled due to low enrollment.*

SCHEDULING PROCESS: Students are provided scheduling information in February to schedule courses for the following school year. Students and families should explore the Course Offerings Handbook online for all possible selections. Students will have a registration window to register for classes in PowerSchool. In May, rising freshmen, sophomores and juniors will complete an online verification process of their course requests. This does not represent the student's schedule for the next school year, this just confirms the courses (with alternates) selected by the student. Counselors will verify course requests for rising seniors to ensure graduation requirements will be met by student requests. Parent approval is required for course request changes made at this time. **Course request changes will NOT be made after June 1st.** Course offerings are subject to change.

CHANGE IN COURSE OFFERINGS: Course offerings may be eliminated due to insufficient enrollment. Students should choose alternate course requests in PowerSchool. Should their original request be eliminated, one of the alternate course requests will be scheduled.

GUIDELINES FOR SCHEDULE CHANGES: Any changes in a student's schedule must be handled through the school counseling department. It is important to realize that our master schedule is based upon the student course requests made in February. In May, a verification of course selection will be sent home. Students should contact their school counselor at that time if a change is requested. In order to be fiscally responsible, the number of class sections within each subject area is based on these projections. These requests also dictate new teacher hires during the summer. **Course request changes will NOT be made after June 1st.** (Exceptions: computer error; semester imbalances, replacement of summer school course(s) successfully completed, schedule changes for extra-educational options approved by the administration, and adjustments for handicapped students.) Schedules are provided to each student at the beginning of the school year or upon enrolling. The schedule is based on student needs and available class space. It is important to note that some courses may be denied because of available space or the need to take prerequisites. Once the new school year has started, please follow the dates listed on the school counseling website for schedule changes and dropping a course.

STUDY HALL: Study halls will be automatically filled in a student's schedule when he/she takes less than 7 classes per semester. Incoming freshmen and rising sophomores/juniors should be sure to request at least 6 classes plus alternates, as schedules will be built to ensure no student has more than one in-person study hall.

Remote study halls can be requested by the parent/guardian of any student in grades 10-12 who is on track to graduate and has his/her own reliable method of getting to school (walk, parking pass, parent/guardian drop off, etc.). If approved, a remote study hall would take place during either the first or last period of the school day and would mean the student would be responsible for completing all homework/studies at home. A parent/guardian must complete the appropriate form in PowerSchool in May for approval. Although efforts will be made to approve remote study halls for those whose parent/guardian applies, it is not guaranteed that one will fit into everyone's schedule.

LUNCH: All students will automatically be scheduled for a lunch period during the school day. Juniors and seniors who have their own way of getting to school and qualify may request a campus pass, allowing the opportunity for an off-campus lunch. A parent/guardian must complete the appropriate form in PowerSchool in May for approval. Although efforts will be made to approve campus passes for those whose parent/guardian applies, it is not guaranteed that one will fit into everyone's schedule.

SCHEDULING TIPS

- Refer to the How To Register in PowerSchool presentation shared during Portrait of a Graduate period.
- Students should choose their elective classes and provide alternate course requests that will be scheduled, based on space, if the initial classes requested are not offered, are full, or are in conflict with each other.
- All students should be enrolled in six or seven classes per semester (with the exception of CCP students).
- Students should be enrolled in the equivalent of 6 or more courses each semester.
- All yearly subjects are passed or failed on the basis of the final yearly grade. Semester subjects are passed or failed on the basis of the final semester grade.
- It is highly recommended for student-athletes to take at least 6 courses per semester, as taking less may increase the likelihood of he/she being ineligible.

DROPPING A COURSE: Only upon approval of a counselor and the course teacher may a class be dropped for academic reasons. A year-long or semester subject may be dropped prior to the end of the first two weeks of school as long as dropping the class will keep the appropriate number of classes in the student's schedule. If the subject is dropped after that time, the individual receives an "F" for a final grade in the course.

CREDIT RECOVERY: Should a student have a credit deficiency and need to recover enough credits to graduate, the Canal Winchester School District offers an online program. This program allows students to catch up on courses needed to graduate from high school. Classes are conducted at school during the regular school day. Although the courses are completed online, a facilitator is present to keep students on track. Permission and placement into credit recovery must be granted by a principal. These courses may not be accepted by the NCAA.

EARNED CREDITS FOR STUDENT CLASSIFICATION: Grades 9-12 Students are deemed on track for graduation by the number of credits they have cumulatively earned.

- Sophomores: 5 credits
- Juniors: 10 credits
- Seniors: 15 credits
- To Graduate: 21 credits

COURSE RETAKE OPTION: Students who have earned credit in a course with a grade of "D" or lower may retake the course for the opportunity to improve the grade. This is especially encouraged in situations where a grade of "C" or higher is necessary in order to advance in a developmental sequence. **Both course experiences will be indicated on the transcript, but with only the second grade, whether higher or lower, being figured into the cumulative grade point average. Students enrolled in a class under the grade improvement policy must adhere to the same deadlines for adding or dropping those classes as are established for all other classes with the same penalties for noncompliance. Courses repeated must be taken in sequence (ex: a student who has successfully completed Algebra 2 cannot then repeat Algebra 1 under the grade improvement policy). This will only apply to courses taken during the regular school year, not to courses retaken in summer school. In order to utilize this opportunity, paperwork must be completed with your school counselor.

GRADES: CWHS has a standard grading procedure as well as additional notations that may indicate work in progress or incomplete work. The purpose of a grade is to indicate the extent to which the student has acquired learning. In general, students are assigned grades based upon test results, homework, projects and classroom participation. Each teacher may place a different emphasis on these areas in determining a grade and will inform the students at the beginning of the course. If a student is not sure how grades will be determined, s/he should ask the teacher. The grading scale is as follows:

Percentage	Letter Grade	GPA Scale
93-100	A	4.0
90-92	A-	3.7
87-89	B+	3.3
83-86	B	3.0
80-82	B-	2.7
77-79	C+	2.3
73-76	C	2.0
70-72	C-	1.7
67-69	D+	1.3
63-66	D	1
60-62	D-	.7
0-59	F	0

Students in an Advanced Placement course (one taken at Canal Winchester High School that has been approved through the College Board Course Audit review process) OR a College Credit Plus Course will have .025 points added (per class) onto their cumulative GPA at the conclusion of the school year. For the graduating class, a straight numeric rank will be used for end of the year honors. Senior recognition will be based on grades, grade point average, and ACT/ SAT scores at the end of the seventh semester.

SCHOLASTIC HONOR ROLL: Students with a 3.0 GPA for the semester (not quarter) grading period will be placed on the scholastic honor roll.

FLEX CREDIT: Credit Flexibility was established as an opportunity for students to create unique learning situations allowing them to demonstrate their understanding and skills according to their individual learning styles and experiences. The Credit Flex option applies to any coursework, assessment or performance completed outside of traditional Canal Winchester course offerings. All high school students have the opportunity to submit an application for Credit Flexibility. Students also have the option of taking the Canal Winchester High School Physical Education Flex Credit Study Plan. This plan is offered through Canal Winchester Local Schools only. See counselor for forms.

VALEDICTORIAN AND SALUTATORIAN: Valedictorian and Salutatorian will be determined by the final average at the end of the seventh semester during the senior year. The student with the highest average for four years will be the Valedictorian and the student with the second highest average will be the Salutatorian.

COMMENCEMENT: It is a privilege, not a right, to participate in commencement exercises. Seniors must meet all local and state requirements, including state mandated tests in order to participate in the commencement exercise. Additionally, seniors must have paid all fees, fines, and charges, and served all disciplinary assignments before s/he can participate in the commencement exercise.

EARLY GRADUATION: Students desiring to graduate early must pick up a packet and application from the counseling office. There are specific deadlines that must be met for this process. Early graduates are not eligible for valedictorian or salutatorian.

FEES: Fees are board approved in May and are subject to change. All fees must be paid (including previous years) to receive a diploma.

CHROMEBOOK PROTECTION FEE: The total Chromebook Protection Fee is \$20.00 per school year. (ONLY one protection fee purchase per school year). Partial semesters are not refundable. If you purchase the protection fee after September 30th, 2023 a \$20 late fee will be billed should you access the protection coverage.

This protection fee covers the Chromebook loaned to the student against all charges for damages, loss or theft up to \$85.00. (Total cost of a Chromebook approx. \$220) Any additional costs to repair or replace the Chromebook will be charged to the student. The charger is not covered.

[Click here for Chromebook handbook.](#)

GRADING PERIODS: A report card will be posted in PowerSchool at the end of each 9-week period indicating grades for each academic class.

POWERSCHOOL: A student’s academic progress is available to students and parents 24/7 through the online PowerSchool, located on the district website www.cwschools.org. Students in grades 6-12 have individual access to the account, and parents may have their own password and access to the student’s information. Please go to the website and follow instructions to obtain access codes to set up an account. High school students should be responsible for monitoring grades. When a student appears to be at risk for failure, teachers will make attempts to communicate with parents/guardians to provide interventions and supports.



COLLEGE CREDIT PLUS: Eligible students can take a course and earn high school and college credit that appears on both their high school and college transcripts for dual credit. Ohio public school districts and Ohio public colleges and universities must participate in College Credit Plus. Nonpublic high schools and colleges or universities may choose to participate. To be eligible,

students must meet the admission standards of the participating college or university to which they apply for enrollment. The student is enrolled in both high school and college and can attend the class in any setting arranged by the college.

However, if a student fails a College Credit Plus course, the student is now responsible for repayment to the district for the costs incurred for enrollment in that course. A meeting for parents and students will be held each year to provide additional information for those wanting to participate in this program. Please check the counseling website for the meeting date.

College credit plus courses include any of the following:

- Embedded Columbus State CCP courses taken at CWHS with a CW Staff instructor
- Courses taken off site at a local college campus

Students who plan to take embedded courses (taught at CWHS by a CW teacher), must complete the [2023-24 CCP Embedded Courses Checklist](#) and turn it into the school counseling office by the last day of the current school year (May 26th, 2023).

Please check the high school webpage COLLEGE CREDIT PLUS tab for full details, forms and additional information. For more information, visit Ohio Higher Ed website www.ohiohighered.org.

PATHWAYS: High school courses can give you a head start on a career pathway or provide you with a certificate after the successful completion of courses to give you an advantage when applying for jobs after high school. Please carefully review

the pathways and course requirements in the course offerings before signing up. Per College Credit Plus, an orientation meeting may be required before coursework can begin. Courses are considered electives and may or may not fulfill the basic English and math requirements needed for graduation.

Sample Pathway available at Canal Winchester High School Campus

Students earn 19 semester credits over two years taking CCP courses offered at CWHS.

JUNIOR YEAR	
1 st semester	2 nd semester
MKTG 1230 Marketing Principles (3) ENGL 1100 Composition I (3)	BMGT 1008 Business Management (2) ENGL 2367 Composition II (3)
SENIOR YEAR	
1 st semester	2 nd semester
Math 1148 College Algebra (4)	MATH 1149 Trigonometry (4)

Sample Pathway available at Columbus State Community College Student earns 32 semester credits over 2 years with a combination of courses taken both on the high school and college campus.

JUNIOR YEAR	
1 st semester	2 nd semester
ENGL 1100 Composition I (3)	ENGL 2367 Composition II (3)
CSCI 1101 Computer Concepts & Applications (3)	MKTG 1230 Marketing Principles (3)
	POLS 1100 Intro to American Gov (3)

SENIOR YEAR	
1 st semester	2 nd semester
MATH 1148 College Algebra (4)	MATH 1149 Trigonometry (4)
PSY 1100 Intro to Psychology (3)	POLS 1200 Comparative Politics (3)
	SOC 1101 Intro to Sociology (3)

ADVANCED PLACEMENT (AP): The College Board's Advanced Placement courses are classes with college-level rigor in a wide variety of subjects that you can take while still in high school. AP courses are



for any student that is academically prepared and motivated to take on advanced coursework. Students are expected to take the AP Exam at the end of each AP course in May. The exam fee is approximately \$95/exam. These standardized exams are designed to measure how well you've mastered the content and skills of the course — a successful score could earn you credit and advanced placement in college. Teacher recommendation is highly suggested before signing up for AP courses.



NATIONAL HONOR SOCIETY : National Honor Society membership is an honor awarded to students in a highly competitive process that evaluates the following criteria:

- Scholarship - Must have cumulative GPA of 3.6 on a 4.0 scale
- Service - This involves voluntary contributions made by a student to the school or community, done without compensation.
- Leadership - Student leaders are resourceful, good problem solvers, and idea contributors. Leadership experiences can be drawn from school or community activities while working with or for others.
- Character - The student of good character is cooperative; demonstrates high standards of honesty and reliability; shows courtesy, concern, and respect for others; and generally maintains a clean disciplinary record.

The selection process is as follows:

1. A student must have a minimum cumulative GPA of 3.60 to be eligible for NHS. Cumulative GPA includes any high school credit courses taken as a middle school student.
2. A packet that includes NHS expectations, application requirements, and application paperwork will be distributed to eligible students.
3. All required forms must be completed and returned to the NHS advisor by the given deadline. All deadlines are firm and failure to meet a deadline will result in automatic ineligibility.
4. A completed application must include: an intent for consideration form, cover letter, academic résumé, three recommendations from non-familial high school teachers or coaches, one recommendation from a non-familial community member, and a completed service hours form.
5. All high school staff will then have the opportunity to evaluate the service, leadership, and character of applicants with whom they have had professional interaction (class, athletics, clubs, activities, etc.).
6. A five-member Faculty Council, who is appointed by the High School administration and remains anonymous, will then review, with names redacted, all applications, high school staff evaluations, attendance reports, and discipline records to determine selection into NHS.
7. The Faculty Council's decision is final. Council members' identities and all applicant information are kept confidential, before, during and after the process.
8. Non-selected applicants will receive a letter in the mail. 9. Selected applicants will be tapped during school hours. Induction ceremony shall occur approximately one (1) week after tapping.

ELIGIBILITY STANDARDS FOR ATHLETIC PARTICIPATION: Eligibility for each grading period is determined by grades received the preceding grading period. In order to be eligible, a student in grades 9-12 must be currently enrolled and must have been enrolled in school the grading period (nine weeks) immediately preceding and must have received a grade point average of 1.65 or higher in that preceding grading period. A student may receive an "F" and still participate as long as his/her GPA is a 1.65 or above. Additionally, the Ohio High School Athletic Association requires the following: In order to be eligible, a student in grades 9-12 must be currently enrolled, must have been enrolled in school the grading period immediately preceding (nine weeks), and must be receiving passing grades during that grading period in subjects that earn a minimum of 5.0 credits per year toward graduation. (OHSAA) STUDENTS MUST BE PASSING FIVE (5) CLASSES/GRADING PERIOD AND PER SEMESTER WITH A CREDIT VALUE OF .5 OR HIGHER EACH SEMESTER



- Enrollment in at least six classes, not including P.E., is strongly encouraged for all prospective athletes.
- MIDTERM GRADE CHECKS Eligibility is checked at midterm each grading period. Students must be enrolled in and passing at least five (5) classes with a credit value of .50 or above. Penalty: If a student is found ineligible at the midterm check, s/he will be ineligible for the following week and will be checked weekly thereafter until eligibility is regained.

NCAA ACADEMIC ELIGIBILITY: Students considering participating in athletics during enrollment in a college or university need to read the important following information. Student-athletes wishing to



participate in NCAA Div. I or Div. II athletics as freshmen need to register with the NCAA Eligibility Center.

www.eligibilitycenter.org

Student-athletes must meet GPA, standardized test scores (ACT/SAT), and core course requirements to be eligible for collegiate athletics. For further information and questions regarding eligibility, please check the NCAA Eligibility Center web page above or contact your counselor.

SCHOLAR ATHLETE

Student/athletes maintaining a 3.5 GPA or higher while participating in a sport, will be named a scholar athlete.

SEAL of BILITERACY is a recognition given by the state to students who have demonstrated high levels of proficiency in English and at least one other language. The seal will appear on the student's transcript. A student who is within 15 months of graduation (typically March of their junior year) may apply for the Seal of Biliteracy and/or test for the additional foreign language requirement.

- Students must have earned a proficient level or higher on their ELA I and II EOC exam or have earned a remediation-free score on the English and reading sections of the ACT or SAT.

- Students must earn the appropriate score on one of the state approved foreign language exams.

Students interested in earning the Seal of Biliteracy should contact their World Language teacher or school counselor.

CAREER & TECHNICAL EDUCATION (CTE) Today's cutting-edge, rigorous and relevant career and technical education (CTE) prepares youth and adults for a wide range of high wage, high-skill, high-demand careers. CTE is focused on skills, differing from traditional and university-based education, which is based on theory. Practice, hands-on experience, and application tests make up the bulk of CTE and can open up a variety of options for students' futures. CTE is applicable to almost every educational age range, beginning as early as sixth grade and well into one's adulthood. CTE tracks don't limit students to single careers. In fact, CTE prides itself on being highly specific **and** highly versatile, leading students to pathways including employment, college or university education, the acquisition of credentials, or other postsecondary options. Students will also learn additional important life skills such as critical thinking, collaboration, problem-solving, innovation, teamwork, and communication through their classwork and lab experiences. (Applied Educational Systems, AEdEducation.com, 2022). CTE courses are labeled as such and provide a certificate to the student upon successful completion. CTE courses are available at Eastland-Fairfield Career & Technical Schools campuses and satellite locations, including CWHS.

Eastland-Fairfield Career & Technical Schools

Eastland-Fairfield Career & Technical Schools offer nearly 40 programs for you to choose from while you're in high school. Their programs provide you with the opportunity to build upon your talents and interests, whether you are planning to pursue college, jump directly into the workforce, enlist into the military, and/or begin your own entrepreneurial adventure. Eastland-Fairfield provides students a different high school experience while sharing the knowledge, work experience, and the support needed to be ready for the next steps toward the rest of their lives. Eastland-Fairfield Career & Technical Schools district programs are open to all 11th and 12th grade students within the Canal Winchester district who demonstrate the qualifications and interest to attend. Students remain enrolled in and still graduate from Canal Winchester High School, and are encouraged to continue participation in high school extracurricular activities. With programs on two campuses and five satellite locations, Eastland-Fairfield is closer than you think. Satellite programs are offered at Canal Winchester, Gahanna, Groveport Madison, New Albany, and Pickerington North.

FAST TRACK TO A SATISFYING CAREER

The Eastland-Fairfield learning environment extends far beyond the classroom. Internships, job shadowing, community service, field trips, guest speakers, and cooperative education all provide valuable experience, connections, and practice in building technical and people skills.

JUMP START ON COLLEGE AND SAVING MONEY

Not only do Eastland-Fairfield programs prepare students for further study, but many also allow students to earn college

credit or enter college with advanced standing. Students can earn college credits in selected programs to take with them nearly anywhere and apply to their college transcript.

Eastland Career Center Programs

Agriculture and Heavy Equipment

Diagnose, repair, and maintain a variety of equipment and vehicles. Safely handle tools, understand technical manuals and schematics, and learn how to use electronic and computerized diagnostic equipment. Career pathways: Field Service Technician, Fleet Mechanic, Service/ Parts Manager. For more information, go to:www.EastlandFairfield.com/AHE.

Auto Body and Paint

Explore the details of collision repair, including: surface prep, dent repair, welding, and cutting. Learn the art of fabrication of restored vehicles including custom painting and airbrushing. Career pathways: Refinishing Technician, Collision/Repair Manager, Restoration. For more information, go to:www.EastlandFairfield.com/AutoBody.

Automotive

Turn your hobby under the hood into a career in our Automotive program. Learn all about cars - the engines, electrical, automotive HVAC, brakes, performance, suspension, and steering. Career pathways: Auto Technician, Service Advisor, Garage Manager/ Owner, Sales. For more information, go to:www.EastlandFairfield.com/Automotive.

Aviation

Learn the principles of flight, aviation, air traffic control systems, ground maintenance, and FAA rules and regulations. Engage with drones and flight simulators to earn industry credentials. Career pathways: Pilot, Air Traffic Control, Drone Operator, Airport Management. For more information, go to:www.EastlandFairfield.com/Aviation.

Cosmetology

Earn hands-on experience caring for hair, skin, and nails; including shampooing, conditioning, shaping, styling, perming, hair coloring, manicuring, and facials. Career pathways: Cosmetologist, Esthetician, Salon Manager, Platform Artist For more information, go to:www.EastlandFairfield.com/Cosmetology.

Criminal Justice

Study patrol tactics, arrest techniques, search and seizure, and constitutional law. Learn investigative skills, life-saving procedures, and emergency communications to open up many career paths. Career pathways: Law Enforcement Officer, Federal Officer, Military, Forensics For more information, go to:www.EastlandFairfield.com/CriminalJustice.

Culinary Arts

Learn the basics of culinary terminology, appropriate food preparation techniques, and restaurant operations and management. Join one of only five programs in Ohio that has been accredited by the ACFEF. Career pathways: Executive Chef, Caterer, Manager, Pastry Chef, Sous Chef For more information, go to:www.EastlandFairfield.com/Culinary.

Electrical

Learn and use electrical theory and equipment to apply toward installing and wiring entrance panels, circuits, solar systems, fire alarm systems, and controls. Career pathways: Electrician, Alarm/ Low Voltage Installers, Electrical Engineer For more information, go to:www.EastlandFairfield.com/Electrical.

Firefighting (one-year, senior only)

Be instructed by experienced house chiefs and firefighters on the latest techniques and procedures that cover day-to-day duties and emergency situations to serve the public. Career pathways: Firefighter, Fire Inspector or Investigator, EMT/ Paramedic For more information, go to:www.EastlandFairfield.com/Firefighting.

Graphic Design

Train in a variety of fine art techniques and computer software such as Adobe Photoshop, Adobe Illustrator, and Adobe InDesign, to develop desktop publishing, digital illustration, and HTML/ web design skills. Career pathways: 3D Animator, Illustrator, Graphic/ Web Designer For more information, go to:www.EastlandFairfield.com/GraphicDesign.

Interactive Media

Create video and audio productions using editing, special effects, animated motion graphics, soundtracks, and sound effects. Learn to write scripts, create storyboards, and operate professional AV equipment. Career pathways: Animator, Photographer, Sound Engineer, Film/ Video Editor For more information, go to:www.EastlandFairfield.com/InteractiveMedia.

Medical Office

Train in medical office procedures and software, medical records, reports, terminology, and transcription. Take part in field trips, job shadowing, and internships in various healthcare and business settings. Career pathways: Healthcare Administrator, Office Manager, Lab Technician For more information, go to:www.EastlandFairfield.com/MedicalOffice.

Nail Services (one-year, senior only)

Express your creativity while learning the techniques needed for performing high-quality manicures, pedicures and other beauty services in a safe and sanitary manner to serve your customers' needs. Career pathways: Manicurist, Pedicurist, Nail Technician, Salon Manager/ Owner For more information, go to:www.EastlandFairfield.com/NailServices.

Pre-Dental

Learn proper chair-side procedures and techniques, X-ray exposure, processing and mounting, office management technology, sterilization techniques, and mixing restorative and impression materials. Career pathways: Dental Assistant, Orthodontic Assistant, Dentist, Lab Technician For more information, go to:www.EastlandFairfield.com/DentalAssisting.

Pre-Engineering

Learn about automation, manufacturing processes, blueprinting, computer modeling, computer numerical control (CNC) programming, and manufacturing equipment, such as mills and lathes. Career pathways: CNC Machinist, Fabricator, Industrial/Mechanical Engineer For more information, go to:www.EastlandFairfield.com/Pre-Engineering.

Programming and Software Development

Study database design and management, software development, application/ operating systems programming, and web programming. Apply your skills with hands-on projects and experiences. Career pathways: App Developer, System Analyst/ Manager, VR/ Game Developer For more information, go to:www.EastlandFairfield.com/Programming.

Robotics & Automation

Study the application of robotics, control systems, electro-mechanical systems, and similar engineering to troubleshoot problems. Create smart, innovative robotic machines that contribute to a variety of industries. Career pathways: CNC Operator/ Programmer, Robotics/ Control System Engineer For more information, go to: www.EastlandFairfield.com/Robotics.

Welding

Create the bonds that fuse worlds and metals together. Learn to design, build, and repair projects using different techniques that span many styles of welding. Career pathways: Welder, Business Owner, Laser Technician, Fitter, Metal Artist For more information, go to:www.EastlandFairfield.com/Welding.

Fairfield Career Center Programs

Animal Management

Help animals and the people who love them! The Animal Management program will train you in the skills necessary to be a vet assistant working side-by-side with a professional veterinary team. Career pathways: Veterinarian, Vet Assistant, Zoologist, Animal Trainer For more information, go to:www.EastlandFairfield.com/AnimalManagement.

Automotive

Turn your hobby under the hood into a career in our Automotive program. Learn all about cars - the engines, electrical, automotive HVAC, brakes, performance, suspension, and steering. Career pathways: Auto Technician, Service Advisor, Garage Manager/ Owner, Sales. For more information, go to:www.EastlandFairfield.com/Automotive.

Construction

Learn all aspects of constructing buildings, from site layout to exterior finishing. You will install drywall, perform masonry and carpentry, install roofing, siding, electric, and plumbing, and receive Bobcat training. Career pathways: Carpenter, Construction Manager, Inspector, Construction Crew For more information, go to:www.EastlandFairfield.com/Construction.

Cosmetology

Earn hands-on experience caring for hair, skin, and nails; including shampooing, conditioning, shaping, styling, perming, hair coloring, manicuring, and facials. Career pathways: Cosmetologist, Esthetician, Salon Manager, Platform Artist For more information, go to:www.EastlandFairfield.com/Cosmetology.

Criminal Justice

Study patrol tactics, arrest techniques, search and seizure, and constitutional law. Learn investigative skills, life-saving procedures, and emergency communications to open up many career paths. Career pathways: Law Enforcement Officer, Federal Officer, Military, Forensics For more information, go to:www.EastlandFairfield.com/CriminalJustice.

Heating, Ventilation, Air Conditioning, and Refrigeration

Gain skills in heating, cooling, ventilation, refrigeration, and customer service while working toward EPA universal certification on residential and light commercial applications. Career pathways: Residential/ Commercial Cooling, Design/ Repair, Green Energy Apps For more information, go to:www.EastlandFairfield.com/HVAC.

Pharmacy

Be introduced to the basics of pharmacy practice. Learn medical terminology, pharmacy, law, medicinal packaging and labeling, out-patient/ hospital dispensing procedures, preparing and dispensing procedures. Career pathways: Pharmacist, Pharmacy Technician, Physician, Nurse's Aide For more information, go to:www.EastlandFairfield.com/Pharmacy.

Pre-Dental

Learn proper chair-side procedures and techniques, X-ray exposure, processing and mounting, office management technology, sterilization techniques, and mixing restorative and impression materials. Career pathways: Dental Assistant, Orthodontic Assistant, Dentist, Lab Technician For more information, go to:www.EastlandFairfield.com/DentalAssisting.

Pre-Nursing

Gain an overview of the healthcare field as you study body mechanics, infection control and bloodborne pathogens, therapeutic nutrition, wellness and disease process, phlebotomy, and advanced nursing skills. Career pathways: Nursing Assistant, LPN, RN, Nurse Practitioner, Medical Doctor For more information, go to:www.EastlandFairfield.com/Pre-Nursing.

STNA (one-year, senior only)

Begin your journey to learn how to perform or assist in the care, treatment, and healing of patients in long-term care settings. Career pathways: Patient Care Assistant, Home/ Hospice Care Aide, Clinical Assistant For more information, go to:www.EastlandFairfield.com/STNA.

Teaching Professions

Prepare for your career as an educator by developing skills in designing learning environments, lesson plans, and classroom management then put it into practice through shadowing experiences and internships. Career pathways: Teacher/ Professor, Counselor, Speech Pathologist, Administrator For more information, go to:www.EastlandFairfield.com/Teaching.

Satellite Programs

Architecture/ Construction Management (Gahanna-Lincoln High School)

Design the buildings and homes of the future! This custom-built program is for students who can visualize a project, work through mathematical problems, and communicate ideas to an audience. Career pathways: Architect, Construction Manager, Civil Engineer, Interior Designer For more information, go to:www.EastlandFairfield.com/ACM.

Bioscience (Gahanna-Lincoln High School)

Explore a variety of fields including agriculture, medicine, forensics, genetics, food science, research and lab data reporting, and more. Career pathways: Bioengineer, Environmental Engineer, Microbiologist, Medical Research, Veterinary Science, Pharmacy, Molecular Biologist For more information, go to:www.EastlandFairfield.com/Bioscience.

Cyber Security (New Albany High School)

Learn how to design and build computer networks, and enhance their security skills to explore and prepare for one of the fastest-growing career fields. Protect critical network data through a stair-stepped approach. Career pathways: Security Engineer, Analyst or Consultant, Network Administrator For more information, go to:www.EastlandFairfield.com/Cybersecurity.

Employability Prep (Franklin County sites and Fairfield CC)

This supported, on-site training program prepares students with learning differences (ages 16-21) through opportunities for placement into a community job site to develop good decision-making and problem-solving skills. Career pathways: Community/ Convention Services, Food Service, Shipping/ Receiving For more information, go to:www.EastlandFairfield.com/EmployabilityPrep.

Natural Resources Management (New Albany High School)

Identify and analyze environmental problems, evaluate the relative risks, and examine solutions for resolving and/ or preventing them. Study biotic and abiotic monitoring procedures and environmental chemistry. Career pathways: Conservation Specialist, Marine Biologist, Park Ranger, Biologist For more information, go to:www.EastlandFairfield.com/Environment.

Marketing and Logistics Management (Groveport Madison High School)

Put theory into practice to operate your own school spirit store. Write a marketing plan, decide which products will be offered, and play an integral role in the start-up and day-to-day operation of this entrepreneurial venture. Career pathways: Logistics Manager, PR/Communications Specialist, Business Owner For more information, go to: www.EastlandFairfield.com/Marketing.

Multimedia (Pickerington North High School)

Students are introduced to web design, digital media design, digital photography, video/ film production, information technology basics, and core business concepts. Career pathways: Graphic/ Web Designer, Video Editor, UX/ UI Designer, Producer For more information, go to:www.EastlandFairfield.com/Multimedia.

Project SEARCH (Fairfield Medical Center)

Project SEARCH serves as a workforce alternative for students with learning differences in their last year of high school. Learn employability skills through supervised internships and progress meetings. For more information, go to:www.EastlandFairfield.com/ProjectSearch.

Sports Medicine (New Albany and Gahanna Lincoln High Schools)

Combine classroom knowledge, hands-on practice, and the latest rehabilitation and training technology to best learn how the human body reacts to diet and physical exertion. Career pathways: Athletic Trainer, Physical Therapist, Dietician/ Sports Nutritionist For more information, go to: www.EastlandFairfield.com/SportsMedicine.

Teaching Professions (Gahanna Lincoln High Schools)

Prepare for your career as an educator by developing skills in designing learning environments, lesson plans, and classroom management then put it into practice through shadowing experiences and internships. Career pathways: Teacher/ Professor, Counselor, Speech Pathologist, Administrator For more information, go to:www.EastlandFairfield.com/Teaching.

English-Language Arts

CRS#	Course	Offered	Credit	Length
059	CP English 9	9	1	Y
057	Honors English 9	9	1	Y
062	CP English 10	10	1	Y
060	Honors English 10	10	1	Y
066	CP English 11	11	1	Y
065	AP English Language/Comp	11 12	1	Y
074	CP Eng 12: Portfolio	12	1	Y
074OL	CP Eng 12: Portfolio Online	12	1	Y
073	CP Eng 12: World Lit.	12	1	Y
073OL	CP Eng 12: World Lit. Online	12	1	Y
072	AP English Lit/Comp	11 12	1	Y
070	CCP CSCC ENGL 1100 Composition I	11 12	1	S
071	CCP CSCC ENGL 2367 Composition II	11 12	1	S
044	Public Speaking	9 10 11 12	0.5	S
046	Journalism	9 10 11 12	1	Y
048	Holocaust Studies	9 10 11 12	0.5	S
045	Yearbook	10 11 12	1	Y

• 4 credits of English are required for graduation • Electives do not count as REQUIRED English courses • Honors and AP courses require teacher recommendation in PowerSchool.

CP ENGLISH 9 (059)

Credits: 1/year

Grade offered: 9

Prerequisites: none

College Preparatory English 9 is designed around Ohio's Learning Standards. It is structured to enhance student proficiency levels in the area of reading comprehension and critical thinking through the close reading, discussion, and analysis of fiction and nonfiction works. An emphasis is also placed on the refinement of students' written expression with units on grammar/usage and organization and development techniques. This course is appropriate for students who plan to follow any of the 3Es: enrollment, enlistment, or employment after high school.

HONORS ENGLISH 9 (057)

Credits: 1/year

Grade offered: 9

Prerequisites: none

Honors English 9 is offered to those students who have been identified in eighth grade as independent, self-motivated, and driven to pursue English at an accelerated rate. It is designed around the Ohio Learning Standards and delves deeper into some areas of study, such as the mechanics of good writing as developed through the writing process of prewriting, drafting, revising, and editing than the College Preparatory English course. A specific skill stressed is the ability to organize a short paper that has both focus and depth in relation to the topic covered. Students will also analyze literature, both fiction and nonfiction, at a deeper level. Beyond what is written, students will analyze the how and why a piece is written so as to begin learning how to synthesize a written work.

CP ENGLISH 10 (062)

Credits: 1 /year

Grade offered: 10

Prerequisites: none

College Preparatory English 10 is designed to reinforce skills which are aligned with Ohio's Learning Standards. It is structured to develop skills in reading comprehension, literary analysis, and writing. The literary genres will be studied in detail, and an emphasis will be placed upon the technical characteristics of fiction, nonfiction, and poetry. All work will reinforce those skills learned in CP English 9 and expand student knowledge in the areas of critical thinking, grammar, writing, and analysis. This course is appropriate for students who plan to follow any of the 3Es: enrollment, enlistment, or employment after high school.

HONORS ENGLISH 10 (060)

Credits: 1/year

Grade offered: 10

Prerequisites: Teacher recommendation in PowerSchool

Honors English 10 is a year-long course offered to students who have been identified in ninth grade as independent and self-motivated learners who are prepared for an accelerated pace that is not available through the CP English curriculum. The course demands that students manage difficult course material and engage in higher-level critical thinking and analysis. Academic focuses of the course include argumentative, informative, narrative, and analytical writing; reading and analyzing both fiction and non-fiction literature; research-driven projects and presentations; collegial discussion; and more. Students enrolling in Honors English 10 should expect to be held accountable for these assessments and for preparation and participation in the coursework.

CP ENGLISH 11 (066)

Credits: 1/year

Grade offered: 11

Prerequisites: none

College Preparatory English 11 is designed around the Ohio State Learning Standards. The class examines American literature, writing, grammar, speaking and listening, and vocabulary skills. Through a variety of genres, students explore American time periods ranging from the Puritan era up through the contemporary United States. Students will learn proper formatting techniques for an MLA paper and practice a range of writing modes including analysis, argumentative, and expository. An emphasis will be placed on test taking skills necessary for a variety of tests, such as the ACT. This course is appropriate for students who plan to follow any of the 3Es: enrollment, enlistment, or employment after high school.

AP ENGLISH - LANGUAGE and COMPOSITION (065)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Teacher recommendation in PowerSchool

Students in this introductory college-level course become more aware of the influence of rhetoric in the world around them, and they develop their own style of writing and speaking as their understanding of the power of language evolves.

Composition is the core of the course, with students writing extensively in a variety of forms. In addition, the course is designed around fundamental concepts and readings that require in depth analysis and discussion, both written and verbal. Entering students should enjoy reading and analyzing prose; should have already mastered the fundamentals of grammar and usage; and should have the ability to write essays that reflect critical thinking, are fully developed, and are well organized. The workload is demanding, making time management an essential skill. Students are expected to take the AP exam (approx \$95) in May. Students will have the opportunity to earn college credit.

CP ENGLISH 12: Portfolio (074 or 074OL)

Credits: 1/year

Grade offered: 12

Prerequisites: none

College Preparatory English 12: Portfolio centers on building a portfolio to showcase each students' mastery of Canal Winchester's Portrait of a Graduate competencies. We will focus on real-world writing, research based on students' future career choice and passions, as well as speech, grammar, vocabulary, and other topics and skills articulated in Ohio's Learning Standards. The reading will pair classic British literature with both informational texts and current fiction. This course is suitable for students who plan to follow any of the 3Es: enrollment, enlistment, or employment.

CP ENGLISH 12: World Literature (073 or 073OL)

Credits: 1/year

Grade offered: 12

Prerequisites: none

College Preparatory English 12: World Literature will look at literary works from across the globe as we focus on developing students into responsible citizens in an ever-interconnected world. Units will focus on literature, music, poetry, drama, and film from around the world, and recognizing worldly perspectives on identity, culture, socioeconomic status, politics, and ideology. We'll continue to build on the 12th grade Ohio's Learning Standards, with emphasis on speech, grammar, vocabulary, and analysis skills. This course is geared toward students who are pursuing enrollment after high school, but would also be suitable for those planning on enlistment or employment.

AP ENGLISH - LITERATURE & COMPOSITION (072)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Teacher recommendation

AP Literature and Composition is a course designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students will be required to consider a work's structure, style, and theme as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Students in AP Literature and Composition will do extensive reading and writing daily, and they should be willing to develop self discipline, initiative, a strong work ethic, planning and organizational skills, perseverance, and the ability to think logically, critically, metaphorically, and independently. Students are expected to take the AP exam (approximately \$94.00) in May. Students will have the opportunity to earn college English credit.

CCP CSCC ENGL 1100 Composition 1 (070)

Credits: 1/sem. (3 college credit hours)

Grade offered: 11-12

Prerequisites: Completion of Intent to Participate Form, Textbook Agreement and CCP Embedded Courses Checklist.

CCP English 1100 is a beginning composition course offered by Columbus State Community College which develops processes for critically reading, writing, and responding to a variety of texts in order to compose clear, concise, expository essays. The course facilitates an awareness of purpose, audience, content, structure and style, while also introducing research and documentation methods. Course reading and writing assignments may be thematically organized.

CP CSCC ENGLISH 2367—Composition 2 (071)

Credits: 1/sem. (3 college credit hours)

Grade offered: 11-12

Prerequisites: English 1100 with minimum grade of C. Completion of Intent to Participate Form, Textbook Agreement and CCP Embedded Courses Checklist.

English 2367 is an intermediate composition course offered by Columbus State Community College that extends and refines skills in expository and argumentative writing, critical reading, and critical thinking. This course also refines skills in researching a topic, documenting resources, and working collaboratively. Course reading and writing assignments are organized around the diversity of those who comprise the identities.

PUBLIC SPEAKING (044)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: none (9th grade with teacher signature)

Public Speaking is an elective course that will provide students with the basic skills that are needed to be successful in a variety of public and daily interactions. Students will learn the essentials of speech and develop an understanding of both delivery and proper skills in evaluating public speaking. In addition, students will develop good listening and skills of a focused audience, understand fundamental speech skills, and create a sense of confidence in the delivery of both themselves and the topic in which they are presenting.

JOURNALISM (046)

Credits: 1/year

Grade offered: 9-12

Prerequisites: none

Suggested prerequisites: Previously taken or concurrently enrolled in Digital Design 1 and/or Photography.

In this class, students will learn and improve their research skills. They will also learn how to write newspaper articles using short, concise sentences with carefully selected words. Four editions of the newspaper will be written, published, and delivered to the student body throughout the year. This is a writing course which will require students to work on the processes of pre-writing, editing, and rewriting.

HOLOCAUST STUDIES (048)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: none

This is an English elective course that will provide students with an in depth look at many aspects of the Holocaust. We will build upon knowledge gained from the CWMS Holocaust Unit and the United States Holocaust Memorial Museum trip, with many museum-aligned activities. Students will read first-hand accounts from victims, perpetrators, and bystanders while learning key historical events that led up to the "final solution." Students will focus on why and how the Holocaust occurred through discussions, readings, projects, and activities.

YEARBOOK (045)

Credits: 1/year

Grade offered: 10-12

Prerequisites: None (students who have taken or will concurrently take Digital Design, Photography, or Journalism will be given priority as well as former members of the Yearbook Club)

This is a club that meets after school hours to create the school's yearbook. Students will learn a variety of aspects of journalism, including theme, coverage, copywriting, graphic design, photography, finance, advertising, and emerging technologies. Students will learn the importance of working as a team to complete tasks successfully and on time. Students interested in Yearbook will be required to go through an application process. Flex credit is available for participation in this club but must be arranged with the guidance office in advance.

Social Studies

CRS#	Course	Offered	Credit	Length
102*	U.S. Studies 1877 to Pres.	9	1	Y
108*	World Studies 1750 to Pres.	10	1	Y
110	AP US History	10 11 12	1	Y
106	Current Events Online	10 11 12	.50	S
112	Financial Literacy	10 11	.50	S
112OL	Financial Literacy Online	10 11	.50	S
113*	American Government	11	1	Y
113OL	American Government Online	11	1	Y
107	Psychology	11 12	.50	S
109	Economics Online	11 12	.50	S
111	AP American Gov't & Politics	11 12	1	Y
114	African American Studies	11 12	.50	S

- Required Courses

- *102 US Studies (9th grade)

- *108 World Studies (10th grade)

- *113 American Government (11th grade)

- 3 Social Studies Credits are required to graduate (4 credits to earn an Honors Diploma)

- Financial Literacy REQUIRED for graduation (cannot be counted as Soc. Stu. elective towards Honors diploma)

U.S. STUDIES - 1877 to the present (102)

Credits: 1/year

Grade offered: 9

Prerequisites: none

This course covers the development of the United States from the time of Reconstruction, through Industrialization, Imperialism, Foreign Involvement, World War I, the Twenties, the Depression, the New Deal, World War II, the Cold War, Korea, Vietnam, the Civil Rights era, Watergate, and Reaganomics, and concludes with a study of the U.S. as a present day power. These events will be tied to events worldwide, and the cause/effect relationships that exist will be investigated.

WORLD STUDIES - 1750 to present (108)

Credits: 1/year

Grade offered: 10

Prerequisites: none

This course is a continuation of the study of world history, covering the period from the Enlightenment and Age of Revolution (American Revolution, French Revolution) to the present. Historic eras and global developments are studied with

consideration given to the influence of geographic settings, cultural perspectives, economic systems, and various forms of government.

AP U.S. HISTORY (110)

Credits: 1/year

Grade offered: 10-12

Prerequisites: Teacher recommendation in PowerSchool

AP United States History is a challenging course that is meant to be the equivalent of a freshman college course and can earn students college credit. It is a two-semester survey of United States history from the colonial period to the present. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, and interpretation of original documents. A college textbook is used in the course and an average assignment consists of 10 to 12 pages. Throughout the year, students will be introduced to typical questions used on the AP Exam which is administered in May. Several weeks are spent in intensive review preparing students to take the exam. Students are expected to take the AP exam (approximately \$95.00) in May. Students will have the opportunity to earn college credit. Even if a student fails to achieve a passing score on the AP Exam, the experience of taking a college level course is immeasurable.

CURRENT EVENTS ONLINE (106)

Credits: .50/sem.

Grade offered: 10-12

Prerequisites: none

This repeatable course will help the student to analyze and discuss with understanding current local, state, national, and international problems and issues. This class can only be taken one semester per year for a maximum of two semesters.

FINANCIAL LITERACY (112 or 112OL)

Credits: .50/sem.

Grade offered: 10-11

Prerequisites: none

This course explores the world of Financial Literacy, defined as the ability to read, analyze, manage and communicate about the personal financial conditions that affect material well-being. It includes the ability to discern financial choices, discuss money and financial issues without (or despite) discomfort, plan for the future and respond competently to life events that affect everyday financial decisions, including events in the general economy. This course also gives students a practical, down-to-earth introduction to sound money management. It explores the real-life problems that students will face, and trains them to solve those problems. Students will develop the skills needed to deal with housing, insurance, investments, budgeting, the workplace, retirement, smart shopping, borrowing and more.

Students electing to take the completely online version will NOT be scheduled into a class period, but will complete the course independently and outside of the normal school day. Students should consider time management skills and ability to work without supervision before signing up for this course. This will allow students to take additional courses they may not originally have been able to fit into their schedule. Students must still have a full regular class schedule. Taught through Canvas Learning platform.

AMERICAN GOVERNMENT (113 or OL113)

Credits: 1/year

Grade offered: 11

Prerequisites: none

This course will concentrate on Ohio's 24 new content standards. The subjects fall within eight broad topics that will be the focus of this year-long course, while keeping a close eye on current events, as they relate to the specific topics, and how they affect us each and every day. The eight topics are: Civic Involvement; Civic Participation & Skills; Basic Principles of the U.S. Constitution; Structure and Functions of the Federal Government; Role of the People; Ohio's State & Local Governments; Public Policy; and the Government and the Economy.

PSYCHOLOGY (107)

Credits: .50/sem.

Grade offered: 11-12

Prerequisites: none

Psychology is a semester course offered to juniors and seniors. This is an introductory course that stresses psychological theories and self understanding. Concepts to be studied are learning, perception, memory, stress, personality theories, and abnormal behavior. Class activities include discussion, lecture, and experiments. It is a great introduction to a subject that is required for most college majors.

ECONOMICS ONLINE (109)

Credits: .50/sem.

Grade offered:11-12

Prerequisites: none

This course explores the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants. More specifically, it examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively. Students will explore the process of economic decision-making and how the decision-making process relies on the analysis of data. Students will use economic data to explain trends and decide among economic alternatives. Students will explore the fact that productive resources are limited and allocated in a variety of different ways. Students will look at many efficient ways to allocate productive resources, one of those being markets. Students will discover that the health of a nation's economy is influenced by governmental policy. Fiscal policy can be used to spur economic growth. Monetary policy can be used to moderate fluctuations in the business cycle. Finally, students will investigate many global issues and events that influence economic activities.

AP AMERICAN GOVERNMENT & POLITICS (111)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Teacher recommendation in PowerSchool

AP U.S. Government & Politics is designed to provide students an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret political institutions and the analysis of specific case studies. Students will acquire knowledge about various U.S. political institutions, organizations, beliefs, and ideas that constitute U.S. political theory and their practical applications. The course requires critical thinking and analytical skills relative to political concepts. The course involves extensive outside class readings, in-class lectures, out-of-class essay assignments, and various assessments. Summer reading assignments and assignments over winter and spring breaks should be expected by students. The course follows the curriculum outlined by the AP College Board for U.S. Government and Politics, and therefore prepares students for the AP exam in May. Students are expected to take the AP exam (approximately \$94.00) in May. Students will have the opportunity to earn college credit.

AFRICAN AMERICAN STUDIES (114)

Credits: .50/sem.

Grade offered: 10 (with teacher recommendation), 11-12

Prerequisites: Completion of U.S. Studies 1877 or AP U.S. History.

This semester-long class is designed to study several eras of Africans and their descendants' experiences in the New World and make connections with current issues in the African American community. Through the critical analysis of primary documents, arguing different points of view through debates, and presenting research, students will cover topics from the History of Africa, to Slavery, to the Jim Crow Era, to African American history in Ohio, to current-day issues. Students will enhance their problem solving and critical thinking skills through reading, writing, and questioning techniques.

Science

CRS#	Course	Offered	Credit	Length
200	Physical Science	9	1	Y
202	Honors Biology	9 10	1	Y
208	Biology	10	1	Y
204	Chemistry*	10 11 12	1	Y
214	AP Biology*	10 11 12	1	Y
216	Human Body Systems*	10 11 12	1	Y
201	Animal Science-Anatomy Comparison	11 12	.50	S
205	Physics*	11 12	1	Y
206	Anatomy & Physiology*	11 12	.50	S
210	AP Chemistry*	11 12	1	Y
212OL	Introduction to Astronomy Online*	11 12	.50	S
213	Forensic Science*	11 12	.50	S
215	Environmental Science*	11 12	1	Y
215OL	Environmental Science Online	11 12	1	Y
220	Medical Intervention*	11 12	1	Y
222	Biomedical Innovations*	11 12	1	Y
203	Animal Science-Vertebrate Behavior and Communication	10 11 12	.5	S
209	Everyday Physics	10 11 12	.5	S

3 years of Science to graduate (1 physical credit, 1 life credit; those listed below are only courses that fulfill this requirement)

Physical: Physical Science, Chemistry (any), Physics, Astronomy

Life: Biology, Animal Sciences, Anatomy & Physiology

Honors Diploma requires 4 credits including 2 advanced level sciences* (see table above)

PHYSICAL SCIENCE (200)

Credits: 1/year

Grade offered: 9

Prerequisites: none

This course will explore issues related to chemistry, physics, and astronomy. Topics include the universe, atomic structure, periodic table of elements, chemical properties, force and motion, energy, electricity, sound and light. This course is designed for most 9th grade students. This course will be very interactive and will require active student exploration and problem solving. The course will meet the physical science credit required for graduation.

HONORS BIOLOGY (202)

Credits: 1/year

Grade offered: 9-10

Prerequisites: teacher recommendation in PowerSchool

This course explores concepts of human medicine, and introduces students to modern biological concepts including biochemistry, cellular biology, genetics, homeostasis, feedback systems, and metabolism through investigation of the human body. Students will participate in individual and group research and experimentation and proceed at a fast pace. A required part of this course is completion of homework and at-home modules during school breaks to facilitate independent learning. The course provides an overview of the Biomedical Sciences Pathway offered at CWHS and lays the scientific foundation necessary for student success in the subsequent courses. **Pathway-1**

BIOLOGY (208)

Credits: 1/year

Grade offered: 10

Prerequisites: completion of Physical Science

This course will be taken by all sophomores who have previously taken Physical Science. Students will gain knowledge of biology by using the scientific method, critical thinking, and problem solving. This is a hands-on course, emphasizing labs, activities, and projects; encouraging all students to be challenged and to succeed. Topics will include: cells, genetics, biodiversity and evolution, ecology, and the diversity of life.

CHEMISTRY (204)

Credits: 1/year

Grade offered: 10-12

Prerequisites: Completion of Biology or Honors Biology and completion of Algebra I

Topics covered include historical development of atomic structure, classification of substances, chemical reactions, stoichiometry, chemical bonding, gas laws, solutions, acid/bases, experimental methods, and design, and methods of communicating experimental results. Covers the basic topics of entry level college chemistry.

AP BIOLOGY (214)

Credits: 1/year

Grade offered: 10-12

Prerequisites: Completion of Honors Biology, completion of or concurrent enrollment in Chemistry

This is a college-level biology course, covering in-depth the areas of molecules and cells; genetics and evolutionary theory; and organisms and populations. The emphasis is on developing an understanding of concepts and applications of biological knowledge to environmental and social concerns. Students are expected to take the AP exam (approximately \$95.00) in May and students will have the opportunity to earn college credit.

HUMAN BODY SYSTEMS (216)

Credits: 1/year

Grade offered: 10-12

Prerequisites: completion of Honors Biology

Students examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health. Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include designing experiments, investigating the structures and functions of body systems, and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Important concepts covered in the course are communication, transport of substances, locomotion, metabolic processes, defense, and protection. **Pathway-2**

ANIMAL SCIENCE - ANATOMY COMPARISON (201)

Credits: .50/sem.

Grade offered: 10-12

Prerequisites: Completion of Honors Biology or Biology

Previously offered as Zoology. This course is designed for students who have an interest in the Animal Kingdom. Students will learn about all animal phyla, including invertebrate and vertebrate animals. Dissection of invertebrate and small vertebrate animals will be included. Students will be expected to learn anatomy of the animals and describe their functions and participate in all laboratory experiments and dissections.

ANIMAL SCIENCE - VERTEBRATE BEHAVIOR AND COMMUNICATION (203)

Credits: .50/sem.

Grade offered: 10-12

Prerequisites: Completion of Honors Biology or Biology. Please note that Animal Science Anat is not a prerequisite for this course.

The focus for this class is the phylum Chordata (animals with a backbone). Basic classification of the phylum will be covered and an overview of animals found in each class. Topics covered may include agnatha (jawless fish: lamprey and hagfish), chondrichthyes (cartilage fish: sharks, skates, rays), osteichthyes (bony fish: yellow perch), amphibia (salamanders, toads, frogs), reptilia (turtles, crocodiles/ alligators, lizards, snakes), aves (birds), mammalia (mammals), with a focus on communication and animal behavior.

EVERYDAY PHYSICS (209)

Credits: .50 /sem.

Grade offered: 10-12

Prerequisites: Completion of Biology

The focus of Everyday Physics is on fun activities that can be done anywhere, not just a lab. The class will include fundamental background information about what is happening and why. Through extension activities, students will infer applications for other uses of these activities. Units may include (but are not limited to): bridge construction using paper, launch 2 stage rocket, pull an egg into a bottle, crush a can with air pressure, seven layer density column, electric cornstarch, oobleck and non-Newtonian substances, balancing hex nuts, Rube Goldberg machine, catapults, pendulums and/or solar oven.

PHYSICS (205)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of two college prep science courses and CP or Honors Algebra II AND concurrent enrollment in Pre-Calculus or AP Calculus

Most of the basic concepts covered in an introductory college physics course are covered. Topics include mechanics, Newton's laws of motion, work, energy, power, linear momentum, circular motion, rotation, gravitation, and projectile motion. Selected topics will be supplemented with various demonstrations and lab investigations.

ANATOMY AND PHYSIOLOGY (206)

Credits: .50/sem.

Grade offered: 11-12

Prerequisites: Completion of Honors Bio or Bio

This course is a basic study of the anatomy and physiology of the human body. The emphasis is on understanding the functions of several organ systems and how disease can affect those systems. Students will learn medical terminology as it relates to human body structures, systems, and pathologies. Dissection is an important part of learning in this course. This course is designed for upperclassmen who are interested in learning how the human body is affected when disease occurs. Basic study of the human body and disease intended for students who may be interested in a medical technology career.

AP CHEMISTRY (210)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Chemistry and teacher recommendation in PowerSchool

This advanced chemistry class is recommended for science or health majors. The class will cover atomic structure and periodicity, bonding, properties of gasses, solution properties, kinetics, equilibrium, acid/base, redox reactions, thermochemistry, electrochemistry, and basic organic nomenclature. Students are expected to take the AP exam (approximately \$95.00) in May and will have the opportunity to earn college credit.

INTRODUCTION TO ASTRONOMY (212OL)

Credits: .50/sem.

Grade offered: 11-12

Prerequisites: Completion of two science courses

Astronomy is a course that investigates the sky and the different objects found there. Topics covered include a history of Astronomy, including tools of an astronomer, cycles in the sky, stars and constellations, the Space Race and other examples of space travel, as well as current events in the sky. Students will also learn about the planets, galaxies, and other celestial bodies.

FORENSIC SCIENCE (213)

Credits: .50/sem.

Grade offered: 11-12

Prerequisites: Completion of two science classes

This course will introduce and reinforce some of the traditional concepts briefly taught/mentioned in our CWHS physical science, biology, honors biology and chemistry courses. Many practical methods will be used to reveal what chemical changes occurred during various incidents and scenarios, which will help reconstruct the sequence of events. In this course, students will have the opportunity to be hands-on as if they were investigating a variety of different crime scenes, while using their scientific method and critical thinking skills. In this course, students will approach challenges, methods and analyses of forensic science from a fundamental, chemical perspective.

ENVIRONMENTAL SCIENCE (215 or 215OL)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of two science classes

This course is the study of the environment and human impact. Topics explored include ecosystems, species depletion, human population growth, land, air, and water, waste management, natural resources, alternative energy, climate change, sustainability, and conservation. Emphasis will be placed on independent learning, individual and group projects, current issues, and some outdoor activities during the warmer months. This course fulfills a life science requirement, and is designed for students who are interested in the environment, conservation, and sustainability.

MEDICAL INTERVENTIONS (220)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Honors Biology and completion of or concurrent enrollment in Human Body Systems

Student projects investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. The course explores the design and development of various medical interventions, including cochlear implants, and prosthetic limbs. In addition, students review the history of organ transplants and gene therapy, and stay updated on cutting-edge developments via current scientific literature. May be taken concurrently with Human Body Systems or Biomedical Innovations. **Pathway-3**

BIOMEDICAL INNOVATIONS (222)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Honors Biology, Human Body Systems and completion of or concurrent enrollment in Medical Interventions

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through

progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community. An example project students will complete include designing an effective emergency room. In this, students apply their knowledge of emergency medical careers, problem diagnostic testing and patient evaluation, human body systems, and medical interventions to analyze the workings of an emergency room and discuss inefficiencies that may hinder appropriate clinical care. This course will be offered off campus at Ohio Health's Pickerington Campus. The district does not provide transportation. The course may be taken concurrently with Medical Interventions. ***Pathway-4***

Math

CRS#	Course	Offered	Credit	Length
301	Algebra I	9	1	Y
304H	Honors Geometry	9 10	1	Y
304	CP Geometry	10	1	Y
303H	Honors Algebra II	10 11	1	Y
303	CP Algebra II	11 12	1	Y
303A	Applications Algebra II	11 12	1	Y
305	Pre-Calculus	11 12	1	Y
309	AP Statistics	11 12	1	Y
311	CCP CSCC Math 1148	11 12	1	S
312	CCP CSCC Math 1149	11 12	1	S
300	College Prep Math	12	1	Y
300OL	College Prep Math Online	12	1	Y
308	CP Statistics	12	1	Y
307	AP Calculus AB	12	1	Y
313	AP Calculus BC	12	1	Y

A TI-84 calculator is REQUIRED for ALL math courses Algebra II and up
Please be prepared to purchase the calculator as soon as classes start.

ALGEBRA I (301)

Credits: 1/year

Grade offered: 9

Prerequisites: None

This course is required for all freshmen except those who have earned credit in Algebra I. This course is a traditional Algebra I course that focuses on the topics of integers, linear equations and functions, linear inequalities, quadratic equations and functions, radical expressions and functions, and exponential expressions and functions.

HONORS GEOMETRY (304H)

Credits: 1/year

Grade offered: 9-10

Prerequisites: Completion of Algebra I. Teacher recommendation in PowerSchool

This course is the study of geometric figures and their properties. Elementary trigonometry will be covered, in addition to the topics that are covered in Geometry.

CP GEOMETRY (304)

Credits: 1/year

Grade offered: 10

Prerequisites: Completion of Algebra I

This course is the study of geometric figures and their properties. Logical reasoning is introduced and developed throughout the course.

HONORS ALGEBRA II (303H)

Credits: 1/year

Grade offered: 10-11

Prerequisites: Completion of Honors Geometry or teacher recommendation in PowerSchool

This course is a traditional Algebra II course intended for highly successful mathematics students. Students in this course should be highly motivated and be willing to work at an accelerated pace. Students should be able to synthesize, analyze, and evaluate both independently and in groups. The topics of linear, absolute value, quadratic, rational, radical, and exponential functions and their related equations will be presented as well as systems of equations, matrices, basic trigonometry, and logarithms.

CP ALGEBRA II (303)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Geometry

This is a traditional Algebra II course that focuses on the topics of linear, absolute value, quadratic, rational, radical, and exponential functions and their related equations. Also presented are systems of equations, matrices, basic trigonometry and logarithmic functions.

APPLICATIONS ALGEBRA II (303A)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Algebra I and Geometry

Algebra II Applications is a one-year course designed primarily as an alternative to Algebra II and will meet the Algebra II requirement for graduation. This course is an applications-based learning approach incorporating Algebra I and Algebra II topics while connecting math to the real world and encouraging students to be actively involved in applying mathematical ideas to their everyday lives. Content will integrate the following Algebraic topics into real world experiences: linear and quadratic equations, rational equations, complex numbers, inverse, polynomial, exponential, trigonometric and logarithmic functions.

PRE-CALCULUS (305)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Algebra II or Honors Algebra II

This is an exciting course that provides an opportunity for students to apply their study of functions to the real world. This course is designed to prepare students for success in college level mathematics. The first semester focuses on applications and limits. The second semester focuses on trigonometric functions, analytic trigonometry, and parametric equations.

AP STATISTICS (309)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Honors Algebra II and teacher recommendation in PowerSchool

This Advanced Placement Statistics course is comparable to a semester Statistics course offered in college. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns, and statistical inference. Students are expected to take the AP exam (approximately \$95.00) in May and will have the opportunity to earn college credit. A passing score on this exam earns the student college credit for Statistics at most colleges and universities.

CCP CSCC MATH 1148 – COLLEGE ALGEBRA (311)

Credits: 1/sem.

Grade offered: 9-12

Prerequisites: Meet CSCC qualifications. Completion of Intent to Participate Form, Textbook Agreement and CCP Embedded Courses Checklist. Recommended students have completed algebra 2

This course is a dual enrollment semester course in which students will earn 4 semester hours of college credit through Columbus State Community College. This college credit can be transferred to most state schools. This course covers topics that are traditionally covered in the first semester of a high school Pre-Calculus course.

CCP CSCC MATH 1149 – TRIGONOMETRY (312)

Credits: 1/sem.

Grade offered: 9-12

Prerequisites: Completion of Math 1148 with a C or better. Completion of Intent to Participate Form, Textbook Agreement and CCP Embedded Courses Checklist.

This course is a dual enrollment semester course which will earn 4 semester hours of college credit through Columbus State Community College. This college credit can be transferred to most state schools. This course is a study of the trigonometric functions, vectors, and related applications.

COLLEGE PREP MATH (300 or 300OL)

Credits: 1/year

Grade offered: 12

Prerequisites: Senior status and completion of Algebra II

This course does not grant college credit, but students who elect to attend CSCC are permitted to continue in their current course of study. Canal Winchester High School is partnering with Columbus State Community College to assist students in mastering basic mathematics skills. This course is computer based. Once students are tested and placed at their level, they move through computer topics at their own pace. It is possible to complete up to 3 Columbus State courses (Dev0114, Math 1050, and Math 1075) during the school year.

CP Statistics (TBD)

Credits: 1/year

Grade offered: 12

Prerequisites: Senior status and completion of Algebra II

This course will provide a solid base in statistical thinking. This course is designed for students planning to pursue a career in advertising, business, biology, economics, psychology, the health or social sciences or to pursue a pathway that doesn't require calculus. Students will learn the course concepts through hands-on experimentation and investigation. They will acquire, present, analyze, and interpret data. Topics include: displaying and describing data, experiments vs. observational studies, linear regression, elementary probability, random variables, sampling distributions, confidence intervals, and beginning hypothesis testing. Students taking this course should have successfully completed Algebra 2. A TI-83 or TI-84 calculator is recommended.

AP CALCULUS AB (307)

Credits: 1/year

Grade offered: 12

Prerequisites: Completion of Precalculus and teacher recommendation in PowerSchool

This Advanced Placement Calculus course is comparable to a semester Calculus I course offered in college. The course emphasizes both algebraic and graphical solutions to problems. Topics covered include limits and continuity, derivatives, application of derivatives, integrals, and application of integrals. Students are expected to take the AP exam (approximately \$95.00) in May and will have the opportunity to earn college credit. A passing score on this exam earns the student college credit for Calculus I at most colleges and universities.

AP CALCULUS BC (313)

Credits: 1/year

Grade offered: 12

Prerequisites: Completion of Math 1148 and Math 1149, teacher recommendation in PowerSchool

AP Calculus BC is a full-year course that covers all of the topics covered in AP Calculus AB plus approximately 10 additional topics. Half of the questions asked on the Calculus BC exam are also included on the Calculus AB exam. These questions provide an AB sub score in addition to a BC score. A passing score on the BC exam could qualify the student to earn credit for 2 semesters of college calculus. This course is challenging and demanding. It is recommended for an extremely talented mathematics student who is planning on entering a field which will require an extensive amount of mathematics. Students are expected to take the AP exam (approximately \$95.00) in May and will have the opportunity to earn college credit. A passing score on this exam earns the student college credit for Calculus I at most colleges and universities.

World Languages

CRS#	Course	Offered	Credit	Length
401	French 1	9 10 11 12	1	Y
411	Spanish 1	9 10 11 12	1	Y
412	Spanish 2	9 10 11 12	1	Y
413	Spanish 3	9 10 11 12	1	Y
402	French 2	9 10 11 12	1	Y
403	French 3	9 10 11 12	1	Y
414H	Spanish 4 Honors	10 11 12	1	Y
404H	French 4 Honors	12	1	Y
415	AP Spanish	11 12	1	Y

- World Language is NOT required for high school graduation • 2 credits/years of world language highly recommended for college admission (If college is an option in your future be sure to complete this requirement)
- 3 credits of one world language or no less than 2 credits of each of two different languages is required for an Honors Diploma

FRENCH 1 (401)

Credits: 1/year

Grade offered: 9-12

Prerequisites: none

French I is an introduction to the language and culture of the French speaking world. Emphasis is placed on developing strong foundations in the areas of reading, writing, speaking, listening, and cultural awareness. Students will learn to hold basic conversations and write about themselves, their daily routines, and their likes and dislikes in the present tense. Cultural information about France and Francophone countries, including their people, history, geography, and economy are incorporated into lessons. Proficiency goal on the ACTFL scale: Novice Mid. Class will be taught in French with coursework in French.

FRENCH 2 (402)

Credits: 1/year

Grade offered: 10-12

Prerequisites: C (70%) or better in French 1

This course continues the development of essential skills and structures (writing, reading, listening, speaking) with increasing cultural and literary competence. Students will learn to discuss topics of a personal nature in present and past tenses and will express opinions on a limited range of topics. Knowledge of French history and culture is also extended. Proficiency goal on the ACTFL scale: Novice High. Class will be taught in French with coursework in French.

FRENCH 3 (403)

Credits: 1/year

Grade offered: 11-12

Prerequisites: C average (70%) or better in French 2

This course is for students who have completed French level I and II and provides intensive development of all language skills. The more complex activities and exercises used at this level lead to a more conscious control of the language system. Increased emphasis is given to reading strategies and composition, as well as speaking and listening proficiency. Students will be able to describe experiences in multiple tenses, including past, present, future, and the conditional. They will continue the study of French-speaking countries and their products and practices as compared to our own. All readings are culturally based. ACTFL scale: Intermediate Low. Class will be taught in French with coursework in French.

FRENCH 4 HONORS (404H)

Credits: 1/year

Grade offered: 12

Prerequisites: Must have a B (80%) in French 3 and teacher recommendation in PowerSchool.

This course continues with language sequence and consolidates skills attained in previous levels, further developing them through study of contemporary cultural and literary topics. The course reviews the complex grammatical structures introduced in previous levels, develops the students' conversational skills and prepares students for the transition to university World Language classes. This will include the areas of art, literature, theater, history, and current events in France and French-speaking countries. Students will work with supplementary course materials and will be expected to do extensive research-based projects. Proficiency goal on the ACTFL scale: Intermediate Mid. Class will be taught in French with coursework in French.

SPANISH 1 (411)

Credits: 1/year

Grade offered: 9-12

Prerequisites: none

Spanish I is an introduction to the Spanish language and culture. Special emphasis is placed on developing strong foundations in the areas of reading, writing, speaking, listening and cultural awareness. Students will learn to converse and write about themselves, their daily routines, likes and dislikes using the present tense. Factual information about the nature of daily life and routines in Hispanic cultures and simple literary selections will also be introduced. Proficiency goal on the ACTFL scale: Novice Mid. Class will be taught in Spanish with coursework in Spanish.

SPANISH 2 (412)

Credits: 1/year

Grade offered: 9-12

Prerequisites: C (70%) or better in Spanish 1

This course continues the development of skills and basic structures within increasing cultural and literacy competence. Special emphasis continues to be placed on development of reading, writing, listening, and speaking skills. Students will learn to discuss topics of a personal nature in present, and past tenses and to express opinions on a limited range of topics. Knowledge of Hispanic history and cultures is also extended. Proficiency goal on the ACTFL scale: Novice High. Class will be taught in Spanish with coursework in Spanish.

SPANISH 3 (413)

Credits: 1/year

Grade offered: 9-12

Prerequisites: C (70%) or better in Spanish 2

This course, for students who have completed Spanish Level I and Spanish Level II, provides intensive development of all language skills. Increased emphasis is given to reading strategies and composition, as well as speaking and listening proficiency. Students will be able to describe past experiences using the preterit tense and imperfect tense. They will be introduced to the subjunctive tenses. They will continue the study of Spanish-speaking countries and their similarities and differences from the United States. Proficiency goal on the ACTFL scale: Intermediate Low. Class will be taught in Spanish with coursework in Spanish.

SPANISH 4 HONORS (414H)

Credits: 1/year

Grade offered: 10-12

Prerequisites: Must have a B (80%) average in Spanish 3 and teacher recommendation in PowerSchool

This course continues with language sequence and consolidates skills attained in previous levels, further developing them through study of contemporary, cultural, and literary topics. The course reviews the complex grammatical structures introduced in previous levels, develops the students' conversational skills and prepares students for the transition to university World Language classes. Proficiency goal on the ACTFL scale: Intermediate Mid. Class will be taught in Spanish with coursework in Spanish.

AP SPANISH LANGUAGE & CULTURE (415)

Credits: 1/year

Grade offered: 11-12

Prerequisites: completed Honors Spanish 4, teacher recommendation in PowerSchool

The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). Students are highly encouraged to continue the study of the language as well as the exposure of the culture during the summer months in order to be successful in this course. Students could take the AP exam in May for the opportunity to earn college English credit.

Visual Arts

CRS#	Course	Offered	Credit	Length
730	Art Foundations	9 10 11 12	.50	S
700	Drawing 1	9 10 11 12	.50	S
712	Drawing 2	9 10 11 12	.50	S
702	Ceramics 1	9 10 11 12	.50	S
710	Ceramics 2	9 10 11 12	.50	S
707	Photography 1	9 10 11 12	.50	S
706	Photography 2	9 10 11 12	.50	S
719	Painting	9 10 11 12	.50	S
723	Digital Design 1	9 10 11 12	.50	S
725	Digital Design 2	9 10 11 12	.50	S
726	Sculpture/Metalsmithing	9 10 11 12	.50	S
713	Ceramics 3	11 12	1	Y
718	Photography 3	11 12	1	Y
721	Art Portfolio	11 12	.50	S
722	Art Portfolio	11 12	1	Y
729	AP Studio Art	11 12	1	Y

ART COURSE REQUIREMENTS:

- Art Foundations is a prerequisite to any other art course
- Daily classroom work and additional out-of-class assignments are part of the art curriculum.
- All art classes have fees for consumable supplies.
- 1 credit of Visual or Performing Arts is required for high school graduation

ART FOUNDATIONS (730)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: None

This course is designed to provide students with an introduction to the ideas and processes that are basic to making and understanding art. You will learn about materials and methods for making art, the history of art, and techniques for looking at and interpreting artworks. A variety of art projects will be explored including drawing, ceramics, design, painting, applied arts and sculpture. Students must earn a passing grade to continue taking advanced art classes.

DRAWING 1 (700)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: Successful completion of Art Foundations

This studio course is designed for students to develop and improve their drawing skills in realistic and conceptual art forms. It includes basic drawing techniques using a variety of materials and papers. Emphasis in this course is on composition through utilizing the principles and elements of design. Students will experiment with such subject matter as still life, landscape, portraiture, perspective, and figure drawing. Students are required to keep a sketchbook (provided) for out-of-class assignments.

DRAWING 2 (712)

Credits: 1/year

Grade offered: 9-12

Prerequisites: C- or better in Drawing 1

This course is designed to continue building on student's knowledge acquired from Drawing 1. Students will have a more in-depth exploration of composition, presentation and a variety of drawing techniques. The course focuses on developing the student's individuality and conceptual ideas. Portfolio development is emphasized. A sketchbook is required for progressive out-of-class assignments.

CERAMICS 1 (702)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: Successful completion of Art Foundations

This studio art course provides an opportunity for students to explore basic hand building techniques in clay. Students will produce pinch, coil, and slab pots, as well as explore sculpture using clay. Emphasis will be on skill in craftsmanship and design of projects. Students must achieve a C or better to continue in Ceramics 2.

CERAMICS 2 (710)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: C- or better in Ceramics 1

This is an introduction to wheel throwing. Students will explore techniques using the potter's wheel and advanced hand-building techniques. Students will have the opportunity to explore various glazing and finishing techniques

CERAMICS 3 (713)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Ceramics 1 & 2 and teacher approval; B or higher in Ceramics 2

This course is designed for students who have a desire to advance their skills and techniques in hand-building or on the potter's wheel as an in-depth study. Topics covered include autobiographical sculpture, teapots, and signature artist's series, as well as independent explorations.

PHOTOGRAPHY 1 (707)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: Successful completion of Art Foundations

Students will be introduced to traditional 35mm black and white film photography. Emphasis will be on composition skills, creating a successful photograph, developing film, processing a final print, and final presentation techniques. Careers in photography, photographic history, and photographers will be studied. Students will be expected to complete work outside of class and will need to provide their own 35mm SLR film camera. Students must achieve a C or better to continue in Photography 2.

PHOTOGRAPHY 2 (706)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: C- or better in Photography 1

Students in Photography 2 will continue to explore and experiment with the techniques learned in Photography 1. Emphasis is placed on artistic expression, composition, and experimental photography techniques in order to create a working portfolio. Students will be introduced to basic digital media, expected to complete work outside of class and will need to provide their own 35mm SLR film camera.

PHOTOGRAPHY 3 (718)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Photo 1, Photo 2 and teacher recommendation in PowerSchool

Advanced-level course designed for students who have a desire to extend their photography skills and techniques as an in-depth course of study. Students will focus on portfolio development using experimental techniques, digital photography, photography as fine art, and profession. Students will be expected to complete work outside of class. Students can take the course for a semester or a full year.

PAINTING (719)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: Completion of Art Foundations

In this studio course, students will be introduced to painting techniques using acrylic and watercolor. Art appreciation, master works, styles, art movements and world cultures will be studied. Students will create sketches and paintings of original concepts, as well as observational studies.

DIGITAL DESIGN 1 (723)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: Completion of Art Foundations

Introductory course focusing on the way art is created and displayed using technology as a tool. This course uses “industry standard” software such as Adobe Photoshop and Adobe Illustrator to introduce basic techniques and methods used in such careers as Multimedia, Illustration, Animation and Photography. Emphasis on both technical skills and creative art-making.

DIGITAL DESIGN 2 (725)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: Completion of Digital Design 1

Comprehensive course focusing on developing and advancing the techniques used in Digital Design 1. Students will take their projects to a higher level, creating a working portfolio of computer generated images and animation. “Industry standard” software such as the Adobe Creative Cloud program will be used. Emphasis on advanced creative art-making, technical skills, and production used in digital media professions such as Animation, Graphic Design and Photography.

SCULPTURE / METALSMITHING (726)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: C- or better in Art Foundations

Students will have the opportunity to discover various methods of creating sculpture. A variety of tools, techniques, and materials will be explored. Materials such as metal, clay, wire, plastics, plaster, or wood may be used. Metalsmithing techniques will be utilized in working with pewter casting, tooling, hammering and assemblage methods. The works and methods of master sculptors will also be studied. This class is designed for students who have a desire to work hands-on with various materials and tools.

ART PORTFOLIO (Semester - 721 or Year - 722)

Credits: .50/sem. or 1/year

Grade offered: 11-12

Prerequisites: 2 credits in art and teacher recommendation

Students will develop a portfolio of works in aligned mediums that may include; ceramics, photography, digital design, drawing, painting, collage, printmaking, and mixed media. Students will solve challenging visual arts problems using critical analysis, and evaluation. Experimentation and self-direction will be emphasized as the student continues to develop technical mastery and sophistication. Students will make connections to artists and culture through the study of current and historical trends in art. Disciplined homework completion and sketchbook maintenance is expected. Students will prepare and display their work for public exhibit. This course is for advanced art students who want to create a portfolio but do not want to take the AP exam.

AP STUDIO ART: 2D Design & AP Drawing (729)

credits: 1/year

grade offered:11-12

Prerequisites: 2 credits in art and teacher recommendation

The Advanced Placement art course is for highly motivated juniors and seniors who wish to do college-level art work. The guidelines for this course will follow those of the Advanced Placement Program of the College Board. The course focuses on portfolio development using a variety of art media in 2-dimensional design or Drawing. High quality skill and a strong understanding of the principles and elements of design must be displayed in artworks. Emphasis is also placed on group and individual student critiques with the teacher. This enables the student to analyze and discuss their own artworks and those of their peers. A portfolio and written thesis will be presented for review at the conclusion of the course. The portfolio is the EXAM, which consists of 2 main parts: Selected Works (40% of score) and Sustained Investigation (60% of score). The portfolio consists of 15 images of works displaying a variety of skills and purposeful design concepts and sustained investigation through practice, experimentation and revision. COURSE REQUIREMENTS: Sketchbook assignments, Weekly portfolio projects, Daily studio work and Homework, Weekly class critiques/self-reflections.

Performing Arts

CRS#	Course	Offered	Credit	Length
814	Performing Arts Class 1	9 10	.50	S
804	Performing Arts Class 1	9 10	1	Y
800	Symphonic Choir	9 10 11 12	.50	S
801	Symphonic Choir	9 10 11 12	1	Y
802	Women's Chorale	9 10 11 12	.50	S
803	Women's Chorale	9 10 11 12	1	Y
808	Music Theory/Song Writing 1	9 10 11 12	.50	S
809	Music Theory/Song Writing 2	9 10 11 12	.50	S
810	Marching/Wind Ensemble	9 10 11 12	1	Y
813	Marching/Symphonic Band	9 10 11 12	1	Y
811	Beginning Guitar	10 11 12	.50	S
812	Advanced Guitar	10 11 12	.50	S
807	Performing Arts Class 2	11 12	.50	S
806	Performing Arts Class 2	11 12	1	Y

- Please be aware of prerequisites
- An audition maybe required for participation in select performing arts courses
- 1 credit of Visual or Performing Arts is required for high school graduation

PERFORMING ARTS CLASS 1 (Semester - 814 or Year - 804)

Credits: .50/sem. or 1/year

Grade offered: 9-10

Prerequisites: none

Performing Arts class approaches the world of performing arts from all different angles. Using scripted material and improvisation, the students will learn to develop characters and understand human behaviors in different situations. During the course, all students will learn to write, act in, direct, and design short plays. No previous theater experience is required.

SYMPHONIC CHOIR (Semester - 800 or Year - 801)

Credits: .50/sem. or 1/year

Grade offered: 9-12

Prerequisites: none; Boys, Grades 9-12 or Girls, Grades 10-12

Symphonic Choir is a large mixed gender choir. A strong emphasis is placed on improving the student's vocal techniques and music reading abilities using a variety of literature for Pop to Classical music.

WOMEN'S CHORALE (Semester - 802 or Year - 803)

Credits: .50/sem. or 1/year

Grade offered: 9-12

Prerequisites: none; Girls, Grades 9-12

Women's Chorale is a single gender choir designed for girls with little or no experience singing in a choir. A strong emphasis is placed on improving the student's vocal techniques and music reading abilities using a variety of literature for Pop to Classical music.

MUSIC THEORY/SONG WRITING 1 (808)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: none

Music Theory/Song Writing is the study of music composition techniques. This class focus is on learning the properties of good Melody, Rhythm and Chord structure. Using various software programs, the students learn how to create songs using both traditional and non-traditional compositional techniques. No experience in the traditional Band or Choir classes is required.

MUSIC THEORY/SONG WRITING 2 (809)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: Music Theory /Song Writing 1 or teacher approval

Music Theory/Song Writing is a continuation of the first class. During this class you will learn the concepts behind Minor Keys, Key Changes and Extended Chords. Using various software programs, the students learn how to create songs using both traditional and non-traditional compositional techniques. No experience in the traditional Band or Choir classes is required.

MARCHING BAND/WIND ENSEMBLE (810)

Credits: 1/year

Grade offered: 9-12

Prerequisites: Auditions for this ensemble will take place in March/ April of the previous school year.

Wind Ensemble is an audition group and is open to students in grades 9-12. Students selected for this ensemble are required to perform at concerts outside the school day such as our Winter Concert, Spring Concert, Large Group Contest, and various community activities. As part of this class, all members also perform at 5 basketball games during the basketball season. Members of this ensemble are eligible to participate in Jazz Band and Solo and Ensemble Contest. This course is a requirement for all Marching Band members.

MARCHING BAND / SYMPHONIC BAND (813)

Credits: 1/year

Grade offered: 9-12

Prerequisites: All members of this ensemble must either audition and/or complete band during 8th grade.

Symphonic Band is open to any student who plays a musical instrument in grades 9-12. Members of this ensemble are required to perform at concerts outside the school day such as our Winter Concert, Spring Concert, Large Group Contest, and various community activities. As part of this class, all members also perform at 5 basketball games during the basketball season. Members of this ensemble are eligible to participate in Jazz Band and Solo and Ensemble Contest. This course is a requirement for all Marching Band members.

PERFORMING ARTS CLASS 2 (Semester - 807 or Year - 806)

Credits: .50/sem. or 1/year

Grade offered: 11-12

Prerequisites: none

Performing Arts class approaches the world of performing arts from all different angles. Using scripted material and improvisation, the students will learn to develop characters and understand human behaviors in different situations.

During the course, all students will learn to write, act in, direct, and design short plays. No previous theater experience is required.

BEGINNING GUITAR (811)

Credits: .50/sem.

Grade offered: 10-12

Prerequisites: none

Using the three most popular approaches to the instrument, (Chording, Tablature and Note Reading), the students are introduced to the world's most popular instrument. A strong emphasis is placed on improving the student's playing techniques and music reading abilities using a variety of literature for pop to classical music. No previous music experience is required.

ADVANCED GUITAR (812)

Credits: .50/sem.

Grade offered: 10-12

Prerequisites: Completion of Beginning Guitar

Using the three most popular approaches to the instrument, (Chording, Tablature and Note Reading), the students are introduced to the world's most popular instrument. A strong emphasis is placed on improving the student's playing techniques and music reading abilities using a variety of literature for pop to classical music. No previous music experience is required.

Technology

CRS#	Course	Offered	Credit	Length
355	Intro To Computer Science	9 10 11 12	.50	S
356	Computer Science Principles	9 10 11 12	1	Y
420	CCNAv7-Intro to Networking	9 10 11 12	1	Y
455	Media Production 1	9 10 11 12	.50	S
456	Media Production 2	9 10 11 12	.50	S
360	Intro to Game Design	9 10 11 12	.5	S
440	Technician Internship	10 11 12	.50/1	S/Y
464	CCNAv7 SRWE	10 11 12	1	Y
465	CCNAv7 ENSA	11 12	1	Y

INTRO TO COMPUTER SCIENCE (355)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: None

This course will expose students to a diverse set of computational thinking concepts, fundamentals, and tools. In the course, students use visual, block-based programming to create mobile apps and program a self-driving vehicle (SDV). Students will work both individually and collaboratively to solve problems presented through activities, projects and online discussions that address the use of computer science in the real world.

COMPUTER SCIENCE PRINCIPLES (356)

Credits: 1/year

Grade offered: 9-12

Prerequisites: Completion of Algebra I with B or higher

Python programming and Linux administration are both in-demand skills employers are in need of. In this course, students will learn to program using Python and learn the fundamentals of the Linux operating system. Students will develop computational thinking and use tools that foster creativity. They will practice problem solving with structured activities and progress to open-ended projects that require them to develop planning, documentation, and communication skills. (This course is part of the Cisco Pathway but can be taken independently of Cisco courses.) **CISCO Pathway-4**

CCNAv7: INTRODUCTION TO NETWORKING (420)

Credits: 1/year

Grade offered: 9-12

Prerequisites: Complete Algebra 1 with at least a B, Honors English with at least a B, or CP English with an A

The first course in the CCNA curriculum introduces the architectures, models, protocols, and networking elements that connect users, devices, applications and data through the Internet and across modern computer networks - including IP addressing and Ethernet fundamentals. By the end of the course, students can build simple local area networks (LAN) that integrate IP addressing schemes, foundational network security, and perform basic configurations for routers and switches. This is the first of three courses needed to prepare for the Cisco Certified Network Associate (CCNA) exam. **CISCO Pathway-1**

MEDIA PRODUCTION 1 (455)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: None

Do you enjoy shooting videos with your phone? Would you like to learn how to shoot more compelling images and how to edit them together to create more engaging videos? Then Media Production 1 is for you! In this course students learn to shoot and edit videos using the latest digital technology. Students who complete this course will be skilled in basic video production techniques that can be used in numerous vocational areas. The completed projects are eligible to be recognized at the year-end Indie Awards.

MEDIA PRODUCTION 2 (456)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: Completion of Media Production 1

Do you enjoy watching fun videos on YouTube? Would you like to learn how to create engaging videos of your own and develop your own YouTube channel? Then Media Production 2 is for you! Students who mastered the skills of Media Production 1 will build upon them to develop and produce longer and more intricate videos in a variety of genres. Students will also learn about the media industry, what is currently happening in the industry, and where you can find employment using the skills learned in Media Production. The completed projects are eligible to be recognized in the year-end Indie Awards.

INTRO TO GAME DESIGN (360)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: Completion of Geometry or Algebra 2 with at least a B or completion of another Computer Science course and teacher approval

This course teaches the fundamentals of designing a game using the Unity game engine. The intent is to prepare students with industry-related skills needed for the workplace and higher learning environments. By the end of this course, students will understand the design planning process, be knowledgeable of industry related careers and be able to navigate the Unity environment in order to create 3D games.

TECHNICIAN INTERNSHIP (440)

Credits: .50/sem. OR 1/year (pass/fail)

Grade offered: 10-12

Prerequisites: none

The Technology Internship requires students to assess technology needs throughout the day and define the best approach to addressing or solving the problem in the District Chrome Depot or classrooms. In addition to assisting students and teachers with technology needs, interns will be required to complete and maintain several running projects that address problems or solutions in educational technology integration. The course also asks students to have a prior understanding of the Chrome OS. In addition to skills and knowledge related to educational technology, Chrome Depot students should possess strong communication and critical thinking skills needed for this customer service related position. Students are expected to be self-motivated, independent learners. Students interested in this course should add it to their scheduling sheet and will be given access to the formal application after course requests are complete. The course will only be available to a limited number of students. Chosen applicants will go through an interview process before the end of the current school year and will be notified of placement. For eligible students, summer job opportunities may be available. Opportunity to work at the CWMS Chrome Depot may also be possible.

CCNAv7: SWITCHING, ROUTING & WIRELESS ESSENTIALS - SRWE (464)

Credits: 1/year

Grade offered: 10-12

Prerequisites: Completion of Introduction to Networking with at least a B. Can take SRWE and ENSA concurrently with teacher recommendation.

The second course in the CCNA curriculum focuses on switching technologies and router operations that support small-to-medium business networks and includes wireless local area networks (WLAN) and security concepts. Students learn key switching and routing concepts. They can perform basic network configuration and troubleshooting, identify and mitigate LAN security threats, and configure and secure a basic WLAN. This is the second of three courses needed to prepare for the Cisco Certified Network Associate (CCNA) exam. **CISCO Pathway-2**

CCNAv7: ENTERPRISE NETWORKING, SECURING & AUTOMATION - ENSA (465)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of SRWE with at least a B

The third course in the CCNA curriculum describes the architectures and considerations related to designing, securing, operating, and troubleshooting enterprise networks. This course covers wide area network (WAN) technologies and quality of service (QoS) mechanisms used for secure remote access along with the introduction of software-defined networking, virtualization, and automation concepts that support the digitalization of networks. Students gain skills to configure and troubleshoot enterprise networks, and learn to identify and protect against cybersecurity threats. They are introduced to network management tools and learn key concepts of software-defined networking, including controller-based architectures and how application programming interfaces (APIs) enable network automation. This is the final course needed to prepare for the Cisco Certified Network Associate (CCNA) exam. To learn more about the benefits of earning a CCNA certification, visit <https://learningnetwork.cisco.com/docs/DOC-30659>. **CISCO Pathway-3**

APPLYING CREDIT FROM A CISCO PATHWAY COURSE TO SATISFY CREDIT FOR ALGEBRA 2/MATH 3 OR EQUIVALENT OR ADVANCED SCIENCE CREDIT

A student may choose to apply one credit of advanced computer science to satisfy one unit of Algebra 2 or equivalent OR one unit of advanced science. Courses at CWHS that qualify as advanced computer science are **Computer Science Principles (356)**, **CCNAv7/Intro to Networking (420)**, **CCNAv7/SRWE (464)**, and **CCNAv7/ENSA (465)**. Only credit in an advanced computer science course can be used to satisfy the Algebra 2 or equivalent graduation requirement in mathematics or advanced science graduation requirement. Computer science credits cannot fulfill the requirements in both mathematics and science.

Students should consider their career goals and the requirements of postsecondary institutions' admission and program requirements when choosing to use computer science courses to satisfy graduation requirements.

Students who choose to take advanced computer science in lieu of Algebra 2/Math 3 or advanced science, or the equivalent, need to be aware that some institutions of higher education may require Algebra 2/Math 3 and/or advanced science or equivalent for the purpose of college admission. Also, the parent, guardian or legal custodian of any student who chooses to take advanced computer science in lieu of Algebra 2/Math 3 or equivalent must sign and submit to the school a document that contains a statement acknowledging that not taking Algebra 2 may have an adverse effect on college admission decisions (ORC 3313.603).

Note: A single credit in CISCO Pathway courses may only be used to satisfy one Algebra 2/Math 3 or equivalent, or an advanced science (excluding Biology or Life Sciences) credit.

Note: Ohio high school graduates who choose to participate in intercollegiate athletics should refer to the NCAA rules for details on how to use credit in advanced computer science to satisfy algebra 2/math 3.

Business

CRS#	Course	Offered	Credit	Length
350	Spreadsheet/Word Proc. Appl.	10 11 12	.50	S
375	Strategic Entrepreneurship	10 11 12	.50	S
459	Business Foundations	9 10 11 12	.50	S
460	Fund. of Business & Admin.	9 10 11 12	.50	S
461	CCP Business Management	10 11 12	.50	S
463	CCP Marketing Principles	10 11 12	1	S
480	Financial Accounting	10 11 12	.50	S

SPREADSHEET/WORD PROCESSING APPLICATIONS (350)

Credits: .50/sem. +2 college credit hours

Grade offered: 10-12

Prerequisites: Must apply to Columbus State CC, receive a qualifying score on Accuplacer or ACT, complete CCP requirements and be placed into ENGL 1100 and MATH 1104 or higher.

BOA 1102: Excel I is a course that explores Excel features and functions used in business and accounting applications. Students will learn to create and modify worksheets, insert formulas, create charts, enhance the appearance of workbooks, and manage files and folders. Students will also learn how to use Microsoft Word to create, edit, manipulate, format, print, and store common personal and professional documents.

BUSINESS FOUNDATIONS (459)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: none

This is the first course for the Business and Administrative Services, Finance and Marketing career fields. It introduces students to specializations within the three career fields. Students will obtain knowledge and skills in fundamental business activities. They will acquire knowledge of business processes, economics and business relationships. Students will use technology to synthesize and share business information. Employability skills, leadership and communications, and personal financial literacy will be addressed. **Pathway-1**

FUNDAMENTALS OF BUSINESS & ADMINISTRATION (460)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: none; completion of Business Foundations suggested

This is the first course specific to the Business and Administrative Services career field. It introduces students to the specializations offered in Business and Administrative Services. Students will obtain fundamental knowledge and skills in general management, human resources management, operations management, business informatics, and office management. They will acquire knowledge of business operations, business relationships, resource management, process management, and financial principles. Students will use technological tools and applications to develop business insights, including the use of fundamental and advanced features of word processing, presentation design, and desktop publishing using Google Apps for Education and Microsoft Office Suite. **Pathway-2**

STRATEGIC ENTREPRENEURSHIP (375)

Credits: .50/sem.

Grade offered: 10-12

Prerequisites: Completion of Business Foundation and Fundamentals of Business and Administration

Students will use innovation skills to generate ideas for new products and services, evaluate the feasibility of ideas, and develop a strategy for commercialization. They will use technology to select target markets, profile target customers, define the venture's mission, and create business plans. Students will take initial steps to establish a business. Students will calculate and forecast costs, break-even, and sales. Establishing a brand, setting prices, promoting products, and managing customer relationships will be emphasized. *Pathway-3*

CCP BMGT1008 BUSINESS MANAGEMENT (461)

Credits: 1/sem. +2 college credit hours

Grade offered: 11-12

Prerequisites: Completion of Business Foundations suggested. Must apply to Columbus State CC,

qualifying score on Accuplacer or ACT and complete CCP requirement. This is a combination Columbus State BMGT 1008 and a career tech pathway course. Students will apply management and motivation theories to plan, organize, and direct staff toward goal achievement. They will learn to manage a workforce, lead change, and build relationships with employees and customers. Students will use technology to analyze the internal and external business environment, determine trends impacting business, and examine risks threatening organizational success. Ethical challenges, project management, and strategic planning will also be addressed. Students learn 21st century workplace skills needed to gain entry to and thrive in a rapidly changing workplace environment. *Pathway-4*

CCP MKTG1230 MARKETING PRINCIPLES (463)

Credits: 1/sem. +3 college credit hours

Grade offered: 11-12

Prerequisites: Completion of Business Foundations suggested. Completion of Intent to Participate Form, Textbook Agreement and CCP Embedded Courses Checklist.

This is a combination Columbus State MKT 1230 and a career tech pathway course. Students will obtain an introduction to the sales process and the key role that sales activities play in any consumer or commercial business endeavor. The course deals with the basic components of selling including understanding customer psychology and building customer relationships. This course also emphasizes the important issues facing customer service providers and customer service managers in business. Special emphasis is placed on the mastery of specific skills and analyzing customer attitudes and behaviors to determine the tasks required to deliver excellent customer service. They will acquire knowledge of marketing strategies, market identification techniques, employability skills, business ethics and law, economic principles and international business. Technology, leadership and communications will be incorporated in classroom activities.

FINANCIAL ACCOUNTING (480)

Credits: .50/sem.

Grade offered: 10-12

Prerequisites: Completion of Business Foundations or Fundamentals of Business and Administration.

Bookkeeping is a course that covers the accounting cycle for a service business including analysis of business transactions, journalizing, posting, adjusting and closing entries and financial statement preparation. Special journals that are used in a merchandising business are also covered. Transactions involving payroll accounting, bank accounts, and cash funds are also covered.

Pre-Engineering

CRS#	Course	Offered	Credit	Length
475	Intro to Engineering Design	9 10 11 12	1	Y
477	Principles of Engineering	10 11 12	1	Y
478	Digital Electronics	11 12	1	Y
479	Computer Integrated Mfg. (CIM)	11 12	1	Y

Engineering Articulated Path

The Certificate of Completion is a communication tool between the high school Project Lead the Way program and colleges and universities. It is used to verify the student's success in the PLTW courses for the purpose of articulation. Students should present the Certificate of Completion to the college/university when applying for admission. A list of Ohio colleges and universities participating in statewide articulation can be found on this website:

http://www.pltwhio.org/college_options_certificate.php

INTRO TO ENGINEERING DESIGN (475)

Credits: 1/year

Grade offered: 9-12

Prerequisites: Completion of Algebra I, or concurrent enrollment in Algebra I with teacher approval

The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Students use 3D solid modeling design software to create solutions to solve proposed problems. They learn how to document their work and communicate about their solutions to solve proposed problems. They also present solutions to peers and members of the professional community, enhancing the development of oral skills. **Pathway-1**

PRINCIPLES OF ENGINEERING (477)

Credits: 1/year

Grade offered: 10-12

Prerequisites: Completion of Intro to Engineering Design

This survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. This is the second of the Engineering pathway foundation courses. **Pathway-2**

DIGITAL ELECTRONICS (478)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Intro to Engineering Design and completion of or concurrent enrollment in Principles of Engineering with teacher approval

Digital Electronics is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discrete voltages or logic levels. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Utilizing the activity-project-problem-based teaching and learning pedagogy, students will analyze, design and build digital electronic circuits. While implementing these designs

students will continually hone their interpersonal skills, creative abilities and understanding of the design process. **Pathway**
3

COMPUTER INTEGRATED MANUFACTURING (479)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Intro and Engineering Design and Principles of Engineering and completion of or concurrent enrollment in Digital Electronics with teacher approval

Computer Integrated Manufacturing (CIM) is the study of manufacturing planning, integration, and implementation of automation. The course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. This reflects an integrated approach that leading manufacturers have adopted to improve safety, quality, and efficiency. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, students will analyze, design, and build manufacturing systems. While implementing these designs, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process. Students apply knowledge gained throughout the course in a final open-ended problem to build a factory system. **Pathway**
4

Family & Consumer Sciences

CRS#	Course	Offered	Credit	Length
503	Principles of Food	9 10	.50	S
504	Global Gourmet	11 12	.50	S
505	Food Science	11 12	.50	S
909	Food & Fitness	11 12	.5	S

Students are encouraged to participate in Family, Career and Community Leaders of America or FCCLA, the student organization that focuses on families and leadership skills.

PRINCIPLES OF FOOD (503)

Credits: .50/sem.

Grade offered: 9-10

Prerequisites: none

Students will gain knowledge in food selection criteria and apply preparation methods to promote a healthy lifestyle. Students will apply cooking methods, ingredient selection and nutritional information in the context of selected food dishes. Throughout the course, basic food safety and sanitation techniques will be emphasized.

GLOBAL GOURMET (504)

Credits: .50/sem.

Grade offered: 11-12

Prerequisites: Completion of Principles of Food

A focus on foods from around the world, students will learn about many countries, the people, their traditions, and their culture. Presentations, guest speakers, projects, cooking labs, technology activities, and food samplings will be the highlights of this class. Students are encouraged to participate in FCCLA, the student organization that focuses on families and leadership skills.

FOOD SCIENCE (505)

Credits: .50/sem.

Grade offered: 11-12

Prerequisites: none

In this course, students will apply basic culinary practices and understand how flavor, texture and appearance are affected during food preparation. Students will evaluate chemical reactions as they occur in cooking methods and assess how to control high-risk food safety situations. Food safety and sanitation techniques will align to industry-recognized certifications.

FOOD & FITNESS (909)

Credits: .5/sem.

Grade offered: 11,12

Prerequisites: Completion of Principles of Food, Global Gourmet or Food Science is preferred.

Through classroom lessons, weight training, and food labs, students will increase and actually practice their knowledge of nutrition and exercise relating to their personal wellness and fitness. The course focuses on the social, emotional and physical health of the whole person, including topics such as sports nutrition, personal fitness, meal planning, eating

healthier when dining out, assessing heart rates, strength training, diet evaluation and more. Lab experiences and fitness programs are designed to assist students in applying knowledge to real-life situations.

Health/Physical Education

CRS#	Course	Offered	Credit	Length
903	Physical Education 1	9 10 11 12	.25	S
904	Physical Education 2	9 10 11 12	.25	S
900	Health	9 10 11 12	.50	S
900OL	Health Online	9 10 11 12	.50	S
908	Fitness & Nutrition	10 11 12	.50	S
909	Food & Fitness	11 12	.5	S
905	Personal Development	11 12	.5	S

Graduation requirements include students completing .50 credit (two semesters) of Physical Education during the 9th or 10th grade OR Students may exempt this requirement by successfully completing two seasons of marching band or a school-sanctioned sport.

This may be a combination of two seasons of the same sport/band or one season each of two different sports/band. Students may NOT exempt this requirement by taking .25 PE credit and then completing one sports/band season. Each student must take one semester of Health to meet graduation requirements.

PHYSICAL EDUCATION 1 (903)

Credits: .25/sem.

Grade offered: 9-12

Prerequisites: none

This course is designed to educate the student in skills and activities that can be incorporated into a lifetime fitness program. Students will be taught health-related fitness, leisure time activities, and lifetime sport activities. These activities may include tennis, Frisbee golf, softball, personal fitness, weight training, soccer, flag football, aerobics, and volleyball. Students will also complete a personal fitness assessment and learn how to develop an individual exercise/sport program. Students will be able to measure both their physical activity levels and intensity levels for each corresponding physical activity. Students are required to change their clothes for participation in class activities. Activity will take place both indoors and outdoors.

*If you are in 11th or 12th grade and need this course for graduation requirements, see a counselor.

PHYSICAL EDUCATION 2 (904)

Credits: .25/sem.

Grade offered: 9-12

Prerequisites: Completion of Physical Education 1

This course is designed to educate the student in skills and activities that can be incorporated into a lifetime fitness program. Students will be taught health-related fitness, leisure time activities, and lifetime sport activities. These activities may include indoor soccer, table tennis, floor hockey, weight training, badminton, aerobics, basketball, and team handball. Students will also complete a personal fitness assessment and learn how to develop an individual exercise/sport program.

Students will be able to measure both their physical activity levels and intensity levels for each corresponding physical activity. Students are required to change their clothes for participation in class activities. Activity will take place both indoors and outdoors. If you are in 11th or 12th grade and need this course for graduation requirements, see a counselor.

HEALTH (900)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: none; Recommended Sophomore Year

Health is a semester course required for graduation and is usually scheduled for the sophomore year. The course will consist of a variety of lectures, speakers, projects, and audiovisual aids to introduce and discuss virtually all aspects of health. In general, a course outline would include topics such as anatomy, diseases, body systems, mental and emotional health, stress management, and nutrition. It will also cover other topics such as drugs, bullying, relationships, abstinence, birth control, and STI's. Students electing to take this completely online version will NOT be scheduled into a class period, but will complete the course independently and outside of the normal school day. Students should consider time management skills and ability to work without supervision before signing up for this course. This will allow students to take additional courses they may not originally have been able to fit into their schedule. Students must still have a full regular class schedule. Taught through Canvas Learning platform by CWHs teacher.

FITNESS & NUTRITION (908)

Credits: .50/sem.

Grade offered: 10-12

Prerequisites: none

This course is designed to give students the opportunity to learn fitness and weight training concepts, as well as learn about basic nutrition and how to incorporate nutritional strategies into a personal fitness plan. Students will learn about healthy food choices as well as Pre and Post workout meals and snacks. Students will learn how to evaluate the nutritional value of their food choices. They will also learn and practice proper weight training techniques and be able to individualize their routines based on their goals. Fitness activities may include weightlifting in the field house, walking/jogging on the track, fitness circuits in the gym, stretching, yoga etc. The class will meet daily in the weight room as well as the classroom and gym, to cover the nutritional component of the class. There may also be an opportunity to visit a local grocery store to evaluate and practice finding the best nutritional food choices.

FOOD & FITNESS (909)

Credits: .50/sem.

Grade offered: 11,12

Prerequisites: Completion of Principles of Food, Global Gourmet or Food Science is preferred.

Through classroom lessons, weight training, and food labs, students will increase and actually practice their knowledge of nutrition and exercise relating to their personal wellness and fitness. The course focuses on the social, emotional and physical health of the whole person, including topics such as sports nutrition, personal fitness, meal planning, eating healthier when dining out, assessing heart rates, strength training, diet evaluation and more. Lab experiences and fitness programs are designed to assist students in applying knowledge to real-life situations.

PERSONAL DEVELOPMENT (905)

Credits: .50/sem.

Grade offered: 11,12

Prerequisites: None

This course will provide a solid base in personal development & growth. It is designed to fine-tune students' skill, knowledge, and understanding about themselves and others prior to moving on to one of the three E's. Students will be challenged and encouraged to dive deep into the 6 areas of personal development: Physical, Financial, Social, Emotional, Spiritual, and Intellectual well being. Students will create a Personal Development Portfolio composed of one section from each of the 6 areas. The curriculum will draw from personal development authors like: John Maxwell, Brene Brown, Jon Gordan, Oprah Winfrey, Stew Friedman, Shondra Rhimes and others. The authors will be intentionally selected from diverse backgrounds to allow students to see fair representation. Topics include: How to be a leader, goal setting, how to find your

passions and happiness, identifying core values, how to face life challenges, communication skills, self-exploration, personal financial accountability, etc. Many of the topics will emphasize the POG skills.

CWHS Peer Model Program

CWHS PEER MODEL PROGRAM (441)

Credits: .50/sem

Grade offered: 9-12

The CWHS Peer Model Program is designed to provide an experience for students interested in service learning and volunteerism, or a career working with people with disabilities. This course is offered to students in grades 9-12, and will be based on the Ohio Department of Education's community service standards. The course is designed to offer a peer social experience for disabled and non-disabled students. Goals of the program include learning about various types of disabilities, diversity, and acceptance. Peer Models assist students with organization, understanding and completing tasks, and social skills. Additional: Application including staff and administration approval required; course is integrated into student's schedule

Work-Based Learning

INTERNSHIP - Flex Credit

Credits: see below

Grade offered: 11-12

Prerequisites: None -Graded as pass/fail; Typically .25 credits awarded for 30-45 hours of work, or .50 for 60-90 hours.

Students will check with the internship coordinator and guidance counselor to find out if this is a good option for them. Students will submit an internship application prior to approval. Application is located on the last page of this handbook as well as the guidance webpage. This flex credit opportunity provides students with investigation and experience in career fields of interest. Individual programs are designed in cooperation between the student and CWHS Internship Coordinator. Students participate in planning, goal setting, and experiences that will help to develop critical thinking and problem-solving skills. Students will complete up to 10 hours per week, for 8 weeks at an assigned internship site based on their individual career interests and goals. This experience can take place anytime throughout the school year, depending on student and business availability. Hours of internship vary and may be during school hours or evenings and weekends, if appropriate.

WORK-BASED LEARNING (580/581)

Credits: 1

Work Based Learning provides an opportunity for students to participate in structured educational experiences that integrate classroom learning and productive work experiences. This course will consist of completing assignments on Canvas that relate to employability skills and participation in the Canal Creations print/production lab. Students will learn to use large format printers, heat press-machines and will have the opportunity to create items, including but not limited to apparel, banners, and yard signs, for the Canal Corner.

WORK-BASED EXPERIENCE

Credits: 1 -3 check w/ counselor 150 documented and verified hours equal one (1) elective credit 300 documented and verified hours equal two (2) elective credits 450 documented and verified hours equal three (3) elective credits.

Students must be in 12th grade, be able to provide their own transportation to and from school/work and attain and maintain employment for the academic year. Students not employed by the first interim will be removed from the course. Work hours will need to be turned in to be verified (via paystubs - paper or digital). Work experiences should be related to a student's career goals, program of study and/or employability skills. Students will be required to apply for and attain a teacher approved job in an environment that aligns with their future goals. One goal of the class is to align employment experiences with earning an industry credential tied to the student's post-secondary goals. A student in the WBL/WBE Program may earn the opportunity to have early release on their daily schedule during his/her junior and/or senior years if other grade-level course requirements are met. This decision will be made on a student-by-student basis, with input from the student's academic team (teacher, counselor, and administrator). Early release requests must be approved by the high school administration. Early release is a privilege that may be revoked if academic requirements are not being met.

LEAN SIX SIGMA (582)

Credits: .50/sem.

Grade offered: 11-12

Juniors and seniors who need this course for graduation purposes will be given priority enrollment

Lean Six Sigma (LSS) is a team-based problem-solving methodology used by businesses and organizations worldwide. By equipping students with this skill set and certification, they have a distinct advantage in the workplace. Students learn a structured problem-solving methodology that can be applied personally, academically and professionally. This curriculum has been developed specifically for high school students. The Yellow and Green Belt Industry Credential/Certification counts as 9 points of the 12 needed for the Industry Credential pathway toward graduation.

Pathways

High school courses can give you a head start on a career pathway or provide you with a certificate after the successful completion of courses to give you an advantage when applying for jobs after high school. Please carefully review the pathways and course requirements below before signing up.

- Per College Credit Plus, an orientation meeting may be required before coursework can begin.
- Courses may be taken as single electives and not as part of the complete pathway
- Any student entering dual enrollment courses will take the Accuplacer or use ACT/SAT scores.
- Student must apply for admission to college or university to enroll in college credit plus courses

STEM Pathway/Pre-Engineering

Engineering Articulated Path:

The Certificate of Completion is a communication tool between the high school Project Lead the Way program and colleges and universities. It is used to verify the student's success in the PLTW courses for the purpose of articulation. Students should present the Certificate of Completion to the college/university when applying for admission. A list of Ohio colleges and universities participating in statewide articulation can be found on this website:

http://www.pltwhio.org/college_options_certificate.php

INTRO TO ENGINEERING DESIGN (475)

Credits: 1/year

Grade offered: 9-12

Prerequisites: Completion of Algebra I, or concurrent enrollment in Algebra I with teacher approval

The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Students use 3D solid modeling design software to create solutions to solve proposed problems. They learn how to document their work and communicate about their solutions to solve proposed problems. They also present solutions to peers and members of the professional community, enhancing the development of oral skills. *Pathway-1*

PRINCIPLES OF ENGINEERING (477)

Credits: 1/year

Grade offered: 10-12

Prerequisites: Completion of Intro to Engineering Design

This survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. This is the second of the Engineering pathway foundation courses. *Pathway-2*

DIGITAL ELECTRONICS (478)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Intro to Engineering Design and completion of or concurrent enrollment in Principles of Engineering with teacher approval

Digital Electronics is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discrete voltages or logic levels. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Utilizing the activity project-problem-based teaching and learning pedagogy, students will analyze, design and build digital electronic circuits. While implementing these designs students will continually hone their interpersonal skills, creative abilities and understanding of the design process. *Pathway -3*

COMPUTER INTEGRATED MANUFACTURING (479)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Intro and Engineering Design and Principles of Engineering and completion of or concurrent enrollment in Digital Electronics with teacher approval

Computer Integrated Manufacturing (CIM) is the study of manufacturing planning, integration, and implementation of automation. The course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. This reflects an integrated approach that leading manufacturers have adopted to improve safety, quality, and efficiency. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, students will analyze, design, and build manufacturing systems. While implementing these designs, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process. Students apply knowledge gained throughout the course in a final open-ended problem to build a factory system. **Pathway**

-4

Pathway/Business

Business Pathway

- If you continue your education at Columbus State after high school, articulated courses: college credit can be given for the successful completion courses 459 and 460
- Courses 461 and 463 are college credit plus courses, students must apply for admission to college or university to enroll in college credit plus courses.

Our Business Pathway is designed to expose students to real-world business challenges, dilemmas, and successes, while developing the skills needed to transition to new and emerging careers throughout their lifetime. In addition to studying a quality curriculum, the Pathway prepares students to work independently, thinking critically, collaborate with cross-functional teams, and communicate ideas clearly and constructively.

Learners apply principles of economics, business management, marketing and employability in a variety of roles, while analyzing business enterprises related to the career field.

Students can plan on fully participating in Business Professionals of America, the Career-Tech Student Organization that reinforces the skills in a competitive environment. Students can also look forward to the strategic, tactical, and operational planning of a school store, as well as growing partnership with area business owners.

BUSINESS FOUNDATIONS (459)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: none

This is the first course for the Business and Administrative Services, Finance and Marketing career fields. It introduces students to specializations within the three career fields. Students will obtain knowledge and skills in fundamental business activities. They will acquire knowledge of business processes, economics and business relationships. Students will use technology to synthesize and share business information. Employability skills, leadership and communications, and personal financial literacy will be addressed. **Pathway-1**

FUNDAMENTALS OF BUSINESS & ADMINISTRATION (460)

Credits: .50/sem.

Grade offered: 9-12

Prerequisites: none; completion of Business Foundations suggested

This is the first course specific to the Business and Administrative Services career field. It introduces students to the specializations offered in Business and Administrative Services. Students will obtain fundamental knowledge and skills in general management, human resources management, operations management, business informatics, and office management. They will acquire knowledge of business operations, business relationships, resource management, process management, and financial principles. Students will use technological tools and applications to develop business insights,

including the use of fundamental and advanced features of word processing, presentation design, and desktop publishing using Google Apps for Education and Microsoft Office Suite. **Pathway-2**

STRATEGIC ENTREPRENEURSHIP (375)

Credits: .50/sem.

Grade offered: 10-12

Prerequisites: Completion of Business Foundation and Fundamentals of Business and Administration

Students will use innovation skills to generate ideas for new products and services, evaluate the feasibility of ideas, and develop a strategy for commercialization. They will use technology to select target markets, profile target customers, define the venture's mission, and create business plans. Students will take initial steps to establish a business. Students will calculate and forecast costs, break-even, and sales. Establishing a brand, setting prices, promoting products, and managing customer relationships will be emphasized. **Pathway-3**

CCP BMGT1008 BUSINESS MANAGEMENT (461)

Credits: .66/sem. +2 college credit hours

Grade offered: 11-12

Prerequisites: Completion of Business Foundations suggested. Must apply to Columbus State CC, qualifying score on Accuplacer or ACT and complete CCP requirement. This is a combination Columbus State BMGT 1008 and a career tech pathway course. Students will apply management and motivation theories to plan, organize, and direct staff toward goal achievement. They will learn to manage a workforce, lead change, and build relationships with employees and customers. Students will use technology to analyze the internal and external business environment, determine trends impacting business, and examine risks threatening organizational success. Ethical challenges, project management, and strategic planning will also be addressed. Students learn 21st century workplace skills needed to gain entry to and thrive in a rapidly changing workplace environment. **Pathway-4**

STEM Pathway/CISCO

CISCO Networking Academy Pathway

CISCO CCNA Certificate

Students completing the first three courses successfully will be prepared to sit for the CCNA exam.

Networking CTAG info:

Students completing CISCO networking courses may be eligible to receive college credit through Career-Technical Credit Transfer upon successful completion of each course and passing applicable exams: <http://goo.gl/4m0WID>

CCNAv7: INTRODUCTION TO NETWORKING (420)

Credits: 1/year

Grade offered: 9-12

Prerequisites: Complete Algebra 1 with at least a B, Honors English with at least a B, or CP English with an A

The first course in the CCNA curriculum introduces the architectures, models, protocols, and networking elements that connect users, devices, applications and data through the Internet and across modern computer networks - including IP addressing and Ethernet fundamentals. By the end of the course, students can build simple local area networks (LAN) that integrate IP addressing schemes, foundational network security, and perform basic configurations for routers and switches. This is the first of three courses needed to prepare for the Cisco Certified Network Associate (CCNA) exam. **CISCO Pathway-1**

CCNAv7: SWITCHING, ROUTING & WIRELESS ESSENTIALS - SRWE (464)

Credits: 1/year

Grade offered: 10-12

Prerequisites: Completion of Introduction to Networking with at least a B. Can take SRWE and ENSA concurrently with teacher recommendation.

The second course in the CCNA curriculum focuses on switching technologies and router operations that support small-to-medium business networks and includes wireless local area networks (WLAN) and security concepts. Students learn key switching and routing concepts. They can perform basic network configuration and troubleshooting, identify and

mitigate LAN security threats, and configure and secure a basic WLAN. This is the second of three courses needed to prepare for the Cisco Certified Network Associate (CCNA) exam. **CISCO Pathway-2**

CCNAV7: ENTERPRISE NETWORKING, SECURING & AUTOMATION - ENSA (465)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of SRWE with at least a B

The third course in the CCNA curriculum describes the architectures and considerations related to designing, securing, operating, and troubleshooting enterprise networks. This course covers wide area network (WAN) technologies and quality of service (QoS) mechanisms used for secure remote access along with the introduction of software-defined networking, virtualization, and automation concepts that support the digitalization of networks. Students gain skills to configure and troubleshoot enterprise networks, and learn to identify and protect against cybersecurity threats. They are introduced to network management tools and learn key concepts of software-defined networking, including controller-based architectures and how application programming interfaces (APIs) enable network automation. This is the final course needed to prepare for the Cisco Certified Network Associate (CCNA) exam. To learn more about the benefits of earning a CCNA certification, visit <https://learningnetwork.cisco.com/docs/DOC-30659>. **CISCO Pathway-3**

COMPUTER SCIENCE PRINCIPLES (356)

Credits: 1/year

Grade offered: 9-12

Prerequisites: Completion of Algebra I with B or higher

Students will develop computational thinking and use computational tools that foster creativity. They will practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. The course exposes students to object oriented programming with Python being the predominant language. Students will consider issues raised by the present and future societal impact of computing and explore career pathways related to computational computer science. *Students who have no familiarity with coding, or who did not take Computer Science Discoveries in middle school should enroll in 355 first.

STEM Pathway/Medical

Medical Pathway

- Building a foundation for students interested in pursuing a career in a science field.
- This is NOT a college credit plus pathway.
- College credit may be earned with successful completion of all four courses.

Transcripted college credit from Sinclair Community College can be obtained for successful completion of Human Body Systems (3 credits) and Medical Interventions (3 credits). In order to receive credit, a student must achieve a B in the class, and receive a stanine score of 6 or above on the PLTW college credit exam.

HONORS BIOLOGY (202)

Credits: 1/year

Grade offered: 9-10

Prerequisites: teacher recommendation in PowerSchool

This course explores concepts of human medicine, and introduces students to modern biological concepts including biochemistry, cellular biology, genetics, homeostasis, feedback systems, and metabolism through investigation of the human body. Students will participate in individual and group research and experimentation and proceed at a fast pace. A required part of this course is completion of homework and at-home modules during school breaks to facilitate independent learning. The course provides an overview of the Biomedical Sciences Pathway offered at CWHS and lays the scientific foundation necessary for student success in the subsequent courses. **Pathway-1**

HUMAN BODY SYSTEMS (216)

Credits: 1/year

Grade offered: 10-12

Prerequisites: completion of Honors Biology

Students examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health. Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include designing experiments, investigating the structures and functions of body systems, and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Important concepts covered in the course are communication, transport of substances, locomotion, metabolic processes, defense, and protection. **Pathway-2**

MEDICAL INTERVENTIONS (220)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Honors Biology and completion of or concurrent enrollment in Human Body Systems

Student projects investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. The course explores the design and development of various medical interventions, including cochlear implants, and prosthetic limbs. In addition, students review the history of organ transplants and gene therapy, and stay updated on cutting-edge developments via current scientific literature. May be taken concurrently with Human Body Systems or Biomedical Innovations. **Pathway-3**

BIOMEDICAL INNOVATIONS (222)

Credits: 1/year

Grade offered: 11-12

Prerequisites: Completion of Honors Biology, Human Body Systems and completion of or concurrent enrollment in Medical Interventions

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community. An example project students will complete include designing an effective emergency room. In this, students apply their knowledge of emergency medical careers, problem diagnostic testing and patient evaluation, human body systems, and medical interventions to analyze the workings of an emergency room and discuss inefficiencies that may hinder appropriate clinical care. This course will be offered off campus at Ohio Health's Pickerington Campus. The district does not provide transportation. The course may be taken concurrently with Medical Interventions. **Pathway-4**