WILLOUGHBY-EASTLAKE
CITY SCHOOLS

High School Program of Studies and Planning Guide 2026 - 2027

CEEB CODE

To be used for standardized testing and college applications.

North - 362-022

South - 365-574

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www.weschools.org

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WILLOUGHBY-EASTLAKE CITY SCHOOLS

The Portrait of a Graduate was developed after a year-long process of soliciting feedback from staff, parents, business and civic leaders, and community members. After reviewing and prioritizing more than 1,000 pieces of feedback, the Portrait of a Graduate Summit was held in April 2024. More than 150 people were in attendance. They reviewed the potential competencies, discussed their relevance, and decided on the six key competencies that make up our portrait. The portrait competencies have been embraced by staff and students as key elements for success at school and as essential qualities needed following graduation.

EVERY **PERSON** MATTERS. EVERY **MOMENT** COUNTS.

Collaborator	**Communicator**	**Creator**
Being a COLLABORATOR means fostering trust and cooperation, contributing fairly, supporting shared responsibility, embracing problem-solving together and contributing to group goals.	Being a COMMUNICATOR means being able to articulate your ideas and thoughts in personal conversations, in a group, and when presenting, while also being a good listener.	Being a CREATOR means generating innovative ideas and approaches, visualizing possibilities, adapting and taking risks, experimenting, exploring the unknown, and expressing yourself through the arts or other means.
Critical Thinker	**Empathetic**	**Resilient**
Being a CRITICAL THINKER means assessing information, applying logic, looking at evidence, using reasoning skills, gaining insights and generating new ideas and approaches to challenges.	Being EMPATHETIC means being understanding, showing kindness, being sensitive to the feelings of others, respecting different perspectives and showing concern and caring.	Being RESILIENT means being optimistic, persistent, flexible, confident, taking action, bouncing back from setbacks and focusing on what could be.

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Student-Centered Learning
Where School is Designed FOR Students

Your Passport to Future Readiness: Choosing Your Learning Experience

At Willoughby-Eastlake City Schools, every student can choose a learning path that matches their interests, pace, and goals. Each learning option supports our promise to provide personalized, engaging, and future-ready learning experiences across the curriculum.

Standard Courses

Standard courses are student-centered and teacher-facilitated, combining direct instruction with engaging, interactive experiences. Students learn through lessons, discussions, and projects that encourage curiosity, collaboration, and ownership of learning. Ideal for those who appreciate structure and consistency, these courses provide daily connection with teachers and peers, meaningful feedback, and opportunities for group work and reflection. The focus is on building strong academic foundations while developing communication, collaboration, and critical thinking skills.

Flex Courses

Flex Courses are self-paced, standards-aligned experiences that blend mastery-based learning, digital tools, and teacher coaching. Students and teachers collaborate to set goals, monitor progress, and design meaningful ways to demonstrate mastery, supported by ongoing feedback, reflection, additional help and enrichment. Ideal for independent, goal-oriented learners, Flex Courses offer personalized pacing, opportunities to explore individual interests, and dedicated time for one-on-one or small-group support. The focus is on developing independence, self-management, and real-world readiness through engaging, customized learning experiences that foster curiosity, ownership, and confidence.

Problem-Based Learning

Problem-Based Learning (PBL) courses engage students in investigating meaningful, real-world problems and designing innovative solutions connected to academic standards. Learning is driven by collaboration, creativity, and reflection as students work together on authentic problems that blend inquiry, research, and design thinking. Ideal for students who thrive through hands-on learning and teamwork, PBL courses connect classroom concepts to real-life applications and community partnerships. Through performance-based assessments and presentations, students strengthen their creativity, problem-solving, and communication skills while developing a deep understanding of how their learning makes an impact.

WE POWER

WE POWER (**P**ersonalized **O**ption for **W**illoughby-**E**astlake **R**angers/**R**ebels) is a personalized, self-paced learning option available to students in grades 11–12 during the school day. Students enrolled in WE POWER will complete core academic coursework in English, Mathematics, and Social Studies through a flexible instructional model supported by certified teachers using the district's online learning management system. Students have ongoing access to course content and manage their learning time to demonstrate mastery of academic standards while personalizing their educational experience.

Capstone Experiences

The Capstone Experience is a student-designed, self-directed, and self-paced learning experience that empowers students to pursue projects aligned with their personal interests, career exploration and goals or core electives. Supported by AI tools, Immersion Hubs and teacher mentors, students design and lead independent projects that connect learning to real-world applications through community engagement, research, hands-on learning experiences and creative design. Each experience culminates in a Capstone Showcase, where students publicly present their growth and achievements. Capstones foster the Portrait of a Graduate competencies through authentic, purpose-driven work.

Fit for Modalities

1. **Flex Courses** Best fit for students who…
    a. Work well independently and stay motivated
    b. Want more control over pace (faster or slower)
    c. Benefit from frequent check-ins and coaching
    d. Need flexibility due to extracurriculars, work, or personal circumstances

2. **POWER** **P**ersonalized **O**ption for **W**illoughby-**E**astlake **R**angers/**R**ebels Best fit for students who…
    a. Want flexibility but still need teacher support
    b. Are **able to manage time and stay on track**
    c. Need an alternative structure for their day
    d. Want to accelerate or work at an individualized pace

    POWER will be available to:

    - Incoming Juniors and Seniors
    - In English, Math, and Social Studies

3. **Capstone Experience** Best fit for students who…
    a. Want to explore a passion, career path, or real-world problem in depth
    b. Are curious about a high level of independence and ownership
    c. Thrive with mentorship rather than daily direct instruction
    d. Want learning connected to life beyond school

Capstone **IS**:	Capstone is **NOT**:
Student-driven and interest-based	A "free period" or unstructured time
Purposeful, real-world, and often community-connected	Traditional daily lessons or worksheets
Focused on growth, reflection, and mastery	One-size-fits-all learning
Flexible in pacing and approach	

4. **PBL (Project Based Learning)** Best fit for students who…
    a. Learn best through hands-on work and real-world relevance
    b. Enjoy collaboration and discussion
    c. Like creative tasks, presentations, and performance assessments
    d. Want learning connected to community, careers, or authentic problems

    Important note for next year

    - PBL will be offered in a **limited number of classes**.

GENERAL INFORMATION

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School Day

- A High School day consists of an eight (8) period day with lunch included.
- The Career Institute school day is divided into blocks of time depending upon the particular career and technical education program. Lunch is provided at the home high school.

Attendance

- Attendance and punctuality are the responsibility of the student and parent(s)/guardian(s).
- By state law, regular attendance is mandatory for all students.
- When a student is absent, a parent/guardian is required to notify the school as early in the day as possible. If a call is not received, a note (signed by the parent/guardian) excusing the student is required. A statement stating the reason for the absence must be included.

Minimum Course Load

Students must take between 5.50 and 6.00 units of credit each school year to ensure meeting the requirement of 21.5 credits necessary for graduation.

- Both required and elective courses must equal the 21.5 credit count. Students are strongly encouraged to take additional credits each year.
- Students who are involved in athletics are responsible for checking that they are scheduled for at least five credits each semester (See OHSSA guidelines).

Class Standing

To achieve sophomore, junior, or senior class standing, students should have earned the minimum number of credits indicated below:

- Sophomore Class 5 credits accumulated
- Junior Class 10 credits accumulated
- Senior Class 15 credits accumulated

If a student is in their fourth year of high school and is enrolled in a sufficient number of courses, that student will be classified as a senior and become a candidate for graduation.

All Willoughby-Eastlake courses required for graduation are aligned to the Ohio Department of Education's New Learning Standards and College and Career Readiness standards which are available online at: **http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements**.

GRADUATION REQUIREMENTS

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For the 2026-2027 school year, all students must complete 21.5 **credits** of high school, show **competency** and show **readiness** as outlined by the Ohio Department of Education.

Graduating Class of 2027

Earn Credits

English	4 Credits	English I, II, III and IV
Mathematics	4 Credits	Must include Algebra II or its equivalent
Social Studies	3 Credits	Must include World History, American History, and American Government
Science	3 Credits	Science units must include one unit of physical sciences, one unit of life sciences and one unit of advanced study in one or more of the following sciences: chemistry, physics or other physical science; advanced biology or other life science; astronomy, physical geology or other earth or space science. A student can choose to apply for one credit in advanced computer science to satisfy one unit of advanced science (excluding biology or life sciences).
Health	1/2 Credit	
Physical Education	1/2 Credit	A student who participates in interscholastic athletics, marching band, or cheerleading for at least 2 full seasons may substitute a different 1/2 credit class in any subject for PE credit
Computer Science	1/2 Credit	Any of the classes offered by the computer science department count towards the computer science requirement
Financial Literacy	½ Credit	Starting with the class of 2026 students are required to take Financial Literacy before graduation.
Electives	5 ½ Credits	*1 Credit of Fine Arts. The remaining credits can be any combination of the following: • World (Foreign) Language • Fine Arts, Business • Career-Technical Education • Family and Consumer Sciences • Technology • English Language Arts • Mathematics, Science or Social Studies courses not otherwise required • Students must complete at least 2 semesters of Fine Arts taken any time in grades 7-12. Students enrolled in a “Career-Technical track”-interpreted by the ODE as a minimum of one credit or one year in coursework representing coherent sequential Career-Technical content - are exempt from the Fine Arts requirement.

Show Competency

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A student must demonstrate competency by achieving a level of performance that reflects solid understanding and readiness for future coursework on both the Algebra 1 and ELA 2 state end-of-course exams. Students who do not meet this level will be provided with additional support and are expected to retake the exam at least once to strengthen their skills and demonstrate readiness.

According to state guidelines, students demonstrate competency by earning a score of 684 or higher on the Algebra 1 and ELA 2 end-of-course exams. In our district, we are committed to supporting all students in achieving beyond the minimum standard, reflecting true readiness for future academic and career success.

If a student does not earn the competency score, there are 3 options:

1. Demonstrate Two Career-Focused Activities
    a. Foundational
        i. Proficient scores on WebXams (Career Technical Programs)
        ii. A 12-point industry credential
        iii. A pre-apprenticeship or acceptance into an approved apprenticeship program
    b. Supporting work-based learning
        i. Earn the required score on WorkKeys
        ii. Earn the OhioMeansJobs Readiness Seal
2. Enlist in the military
    a. Show evidence that you have signed a contract to enter a branch of the U.S. Armed Services upon graduation.
3. Complete College Coursework
    a. Earn credit for one college-level math and/or English course through Ohio's free College Credit Plus program.
4. Earn a remediation free scored on the ACT or SAT

SUBJECT	ACT	SAT
English Language Arts	English subscore of 18 (or higher)	Evidence-based reading and writing (EBRW) 480 (or higher)
Mathematics	Mathematics subscore of 22 (or higher)	Mathematics 530 (or higher)

Show Readiness

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Earn two diploma seals, choosing those that line up with your goals and interests. These seals give you the chance to demonstrate academic, technical and professional skills and knowledge that align to your passions, interests and planned next steps after high school. Each seal is earned in different ways.

Diploma Seals

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All Students Must Complete 2 Diploma Seals:

1. At least one State Seal must be earned
2. The second seal can be either another State Seal or a Local Seal

State Seals		Criteria
	Biliteracy	1. Earn a score of proficient or higher on an approved English Language assessment. 2. Earn a score of Intermediate High or higher on an approved World Language Assessment within 15 months before graduation.
	Citizenship	Students must satisfy one of the listed American History **and** one of the listed American Government options: **American History options:** 1. Earn a "B" or higher in US History 2. Earn prof or higher on OST in US History 3. Earn a score equal to prof AP or IB test in US His 4. Earn a "B" or higher in US History CCP. **American Government options:** 1. Earn a "B" or higher in US Gov 2. Earn prof or higher on OST in US Gov 3. Earn a score equal to prof AP or IB in US Gov 4. Earn a "B" or higher US Gov CCP
	College Ready	Students must earn remediation-free scores on the ACT or SAT, as outlined below. **ACT:** English Subscore 18 or higher, Reading Subscore 22 or higher, Math Subscore 22 or higher **SAT:** Evidence-Based Reading and Writing 480 or higher, Math 530 or higher
	Honors Diploma	Students must earn one of six honors diplomas outlined: 1. Academic Honors Diploma 2. Career-Tech Honors Diploma 3. International Baccalaureate Honors Diploma 4. STEM Honors Diploma 5. Arts Honors Diploma 6. Civics and Social Sciences Honors Diploma
	Industry Recognized Credential	Students must do one of the following: Explanations 1. Earn a 12-point industry-recognized credential; or 2. Earn a group of credentials totaling 12 points in a single career field – as outlined here; or 3. Obtain a state-issued license for a practice in a vocation that requires an examination
	Military Enlistment	Students must complete one of the following: Explanations 1. Show evidence of enlistment in a branch of the armed services; or 2. Participate in a junior reserve officer training corps (JROTC) program for at least two school years 3. Provide evidence student accepted scholarship to enter the reserve officer training corps; or 4. Evidence of appointment into a United States military service academy.
	Ohio Means Jobs	Students will earn the OhioMeansJobs-Readiness Seal by satisfying each of the following: 1. Demonstrate proficiency in each of 14 identified professional skills; 2. Use the OhioMeansJobs-Readiness Seal form to record demonstration of each professional skill; and 3. Work with a mentor to validate demonstration of each skill across a minimum of two of the three environments. The three potential environments are: 1. School, 2. Work, and 3. Community.
	Science	Students must satisfy at least one of the following: Examples 1. Earn a final course grade that is equivalent to a "B" or higher in an Advanced Science course; 2. Earn a score of proficient on Ohio's State Test in Biology; 3. Earn a score equivalent to proficient on an appropriate AP or IB science test; or 4. Earn a "B" or higher in a College Credit Plus science course.
	Technology	Students must satisfy at least one of the requirements below: 1. Earn a score equivalent to proficient on an appropriate AP or IB test; or 2. Earn a "B" or higher in an appropriate College Credit Plus technology course; or 3. Complete a technology course that meets criteria established by the ODE. Examples

Local Seals		Criteria	
	Community Service	Complete a community service project aligned with the guidelines adopted by the school district's local board of education or school governing authority.	40 volunteer hours Community Service Seal Overview Community Service Agreement CS Completion Form
	Student Engagement	Participate in extracurricular activities such as athletics, clubs or student government to a meaningful extent, as determined by guidelines adopted by the school district's local board of education or school governing authority.	Engagement Seal Overview Board Approved Activities Student Engagement Agreement Engagement Completion Form
	Fine and Performing Arts	The Fine Arts Diploma Seal will be awarded to graduating high school students who complete the requirements for the W-E Fine Arts Diploma Seal over the course of 4 years.	Fine Arts Seal Overview Fine Arts Pathway Agreement Fine Arts Completion Form

GRADING

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High School Grading Scale

A - 90% - 100% B - 80% - 89% C - 70% - 79% D - 60% - 69% F - 0% - 59%

Honor Roll - Grade Point Average 3.0 - 3.775

Principal's List - Grade Point Average 3.776 – 4.0

Pass/Fail Courses

- As per W-E Board policy, a student may enroll in a course on a pass/fail basis only when the course is not a requirement for graduation.
- The decision to take a course on a pass/fail basis should be made before the course begins. No more than one course may be taken under pass/fail each semester.
- Pass/fail courses do not count in the cumulative Grade Point Average (GPA).
- The pass/fail course will count for credit in the 21.5 credits needed for graduation, and quarterly grades will appear on the report card which will indicate the student's progress on the A through F scale.
- The A through F scale will be converted to a pass (P) or fail (F) in the final grade**.**

Report Cards

- Report cards are posted on PowerSchool each quarter, which spans approximately nine weeks.
- Parents/guardians may access grades and attendance through PowerSchool.

Schedule Change Procedures

- Withdrawal and subsequent placement in a different course will be a limited occurrence and will be an administrative decision.
- Any questions about schedules should be addressed to the appropriate guidance counselor within the first seven (7) days of each semester.

Acceptable Reasons for Schedule Changes

- Missing a required subject or lunch period. Short credits for eligibility.
- Scheduled for fewer than 5.5 credits.
- Short credits to meet graduation requirements if the student is a senior.
- Medical necessity as verified by a physician's statement.
- Administrative decisions to balance class size and/or to resolve schedule conflicts and to otherwise meet the needs of individual students under extraordinary circumstances.

Accelerated Students

In 2006, The Ohio Department of Education passed a new resolution #3324.10 (part of House Bill 66) which allows an accelerated student to apply for "early graduation" if the student has met all of the state and Willoughby-Eastlake district's requirements for graduation.

- **Students must also meet Ohio Department of Education requirements for graduation.**
- **Any student meeting all the criteria for early graduation must state their intention in writing to the Guidance Office before the second semester of Grade 11.**
- **Students who opt for early graduation are not eligible to take CCP classes after they graduate.**

Latin Honor Laude System

Graduating seniors will be recognized for their academic achievements as follows:

Summa Cum Laude "With Highest Praise"	**GPA 4.0 and above**
Magna Cum Laude "With Great Praise"	**GPA 3.7 – 3.99**
Cum Laude "With Praise"	**GPA 3.5 – 3.69**

Honors Designations

Graduating seniors will be recognized for their engagement in academically challenging coursework; Students will earn one point toward their Honors Designation Level for each Honors, Advanced Placement and College Credit Plus course in which they earn a "B" or above.

Highest Honors	**16 + points**
High Honors	**12-15 points**
Honors	**8-11 points**

***This does not replace the Honors Diploma as established by the Ohio Department of Education.**

Valedictorian and Salutatorian

Valedictorian	**Highest GPA in the graduating class**
Salutatorian	**Second Highest GPA in the graduating class**

Eligibility for Participation in Activities

All students in Grades 6 through 12 who wish to participate in school activities must meet a minimum required grade point average of 2.0. "Activities" have two traits**:**

- **They are not required as part of a student's academic program, and**
- **A paid advisor is employed. Student's eligibility for participation shall be based on their grade point average by the immediately preceding grading period.**

****Students are responsible for ensuring they complete enough courses to meet eligibility*.**

OHSAA Guidelines for Grades 7 – 12

- **To be eligible, a passing grade in five (5) one-credit subjects or five credits collectively each grading period is mandatory.**
- **For all students, eligibility for the first grading period of a school year is determined by the fourth grading period grades from the previous school year.**
- **No summer school grades or credits can change eligibility.**

District Guidelines for Grading Period

- **Students with an average of 2.0 or higher at the beginning of each grading period, and who meet all other requirements of the (OHSAA) standards, shall be fully eligible for participation.**
- **No probationary period is permitted for a student who does not meet the standards of the OHSAA which states that a student must pass the equivalent of 5 credits the preceding 9 weeks to be eligible the following 9 weeks.**
- **An ineligible student under this rule shall remain ineligible until the fifth school day after the end of the next grading period.**

Career and Technical Education Programs

- **These programs may not be dropped.**
- **These state-funded programs are staffed on the basis of student enrollment; enrollment must remain firm to maintain eligibility for state funds.**
- **If a student has been accepted into a career and technical education program and has made a commitment, the student must remain in the program for at least one school year.**

GPA Weighting Scales		
Advanced Weighting AP and Select CCP, CTAG and ITAG Courses	**Accelerated Weighting Honors**	**Proficient Weighting College Prep**
A = 5 points	A = 4.5 points	A = 4 points
B = 4 points	B = 3.5 points	B =3 points
C = 3 points	C = 2.5 points	C = 2 points
D = 2 points	D = 1.5 points	D = 1 points
F = 0 points	F = 0 points	F = 0 points

DIPLOMAS

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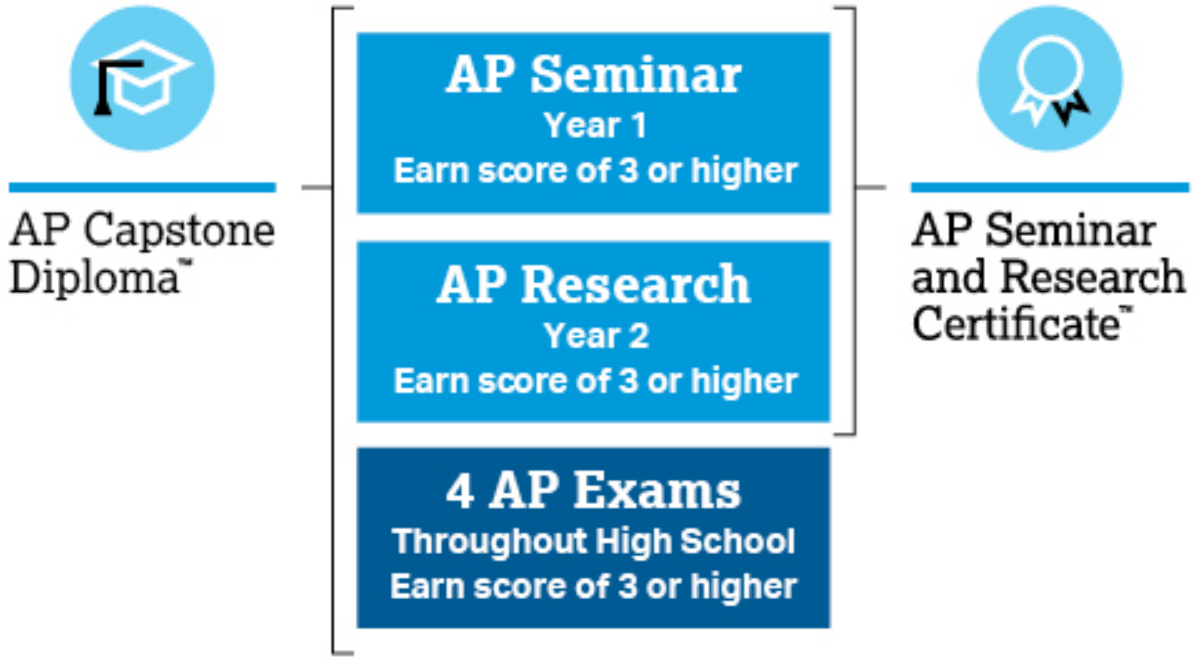
AP Capstone Diploma and AP Seminar and Research Certificate

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma™. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificate™.



Visit the AP Seminar and AP Research course pages on the College Board AP Central website to learn more.

Both North and South High Schools will be offering AP Seminar for the 2026-2027 school year. In the 2027-2028 school year, Both high schools will then offer AP Research.

Honors Diplomas

What are Honors Diplomas?

The Ohio Department of Education and Workforce, in consultation with a group of stakeholders and the State Board of Education, has updated the requirements for honors diplomas beginning with the class of 2026. High school students can gain state recognition for exceeding Ohio's graduation requirements through an honors diploma. To meet honors diploma requirements, 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:

Academic Honors Diploma

High school students can gain state recognition for exceeding Ohio's graduation requirements through an Academic Honors Diploma. High-level coursework, college and career readiness tests and real-world experiences challenge students.

Requirements	State Minimum
1 Math	Fourth math must be > Algebra 2 or an Algebra 2 Equivalent Course
2 Science	One additional unit Advanced Science
3 Social Studies	One additional unit Social Studies
4 World Languages	Three sequential units of one world language, or no less than 2 sequential units of two world languages studied
5 GPA	3.5 on a 4.0 scale
6 ACT/SAT	ACT: Score of 27 or higher, SAT: Score of 1280 or higher
7 Seal Requirement	Earn two additional diploma seals, not including Honors Diploma Seal
8 Experiential Learning	Field Experience & Portfolio, OhioMeansJobs Readiness Seal*, or Work-Based Learning

Career Technical Honors Diploma

A student who completes an intensive CAREER-TECHNICAL education curriculum and also meets all but one of the following criteria may earn this diploma:

Requirements	State Minimum
1 Math	Fourth math must be > Algebra 2
2 Career-Tech Coursework	Four units of Career-Tech Courses
3 Career-Tech Proficiency	Earned a cumulative score of proficient or higher on the technical assessments aligned to their program
4 World Languages	Two units of one world language
5 GPA	3.5 on a 4.0 scale
6 ACT/SAT/Workkeys	ACT: Score of 27 or higher, SAT: Score of 1280 or higher Workkeys: Earn a score of six or higher on all three sections of the WorkKeys assessment.
7 Industry-Recognized Seal or Technology Seal	Meet requirements to earn the Industry Recognized Credential Seal or Technology Seal
8 Experiential Learning	Field Experience & Portfolio, OhioMeansJobs Readiness Seal, or Work-Based Learning

Social Science and Civic Engagement Honors Diploma

A student who completes an intensive SOCIAL SCIENCE & CIVIC ENGAGEMENT curriculum and also meets all but one of the following criteria may earn this diploma:

Requirements	State Minimum
1 Math	Fourth math must be > Algebra 2
2 Social Studies	Two additional units of Social Studies
3 World Languages	Three sequential units of one world language, or no less than 2 sequential units of two world languages studied
4 GPA	3.5 on a 4.0 scale
5 ACT/SAT	ACT: Score of 27 or higher, SAT: Score of 1280 or higher
6 Community Service Seal	Meet local district requirements to earn the Community Service Seal
7 Citizenship Seal	Meet the requirements to earn the Citizenship Seal
8 Experiential Learning	Field Experience & Portfolio, OhioMeansJobs Readiness Seal, or Work-Based Learning

STEM_Honors Diploma

A student who completes an intensive STEM curriculum and also meets all but one of the following criteria may earn this diploma:

Requirements	State Minimum
1 Math	Fourth math must be > Algebra 2
2 Science	One additional unit Advanced Science
3 Electives	Two units of additional STEM Courses as electives
4 World Languages	Three sequential units of one world language, or no less than 2 sequential units of two world languages studied
5 GPA	3.5 on a 4.0 scale
6 ACT/SAT	ACT: Score of 27 or higher, SAT: Score of 1280 or higher
7 Industry-Recognized Credential Seal or Technology Seal	Meet requirements to earn the Industry-Recognized Credential Seal or Technology Seal
8 Experiential Learning	Field Experience, OhioMeansJobs Readiness Seal, Portfolio or Work-Based Learning

Fine Arts Honors Diploma

A student who completes an intensive FINE ARTS curriculum and also meets all but one of the following criteria may earn this diploma:

Requirements	State Minimum
1 Math	Fourth math must be > Algebra 2
2 Fine Arts	Four units
3 Electives	Two units of Fine Arts (may overlap with general four units)
4 World Languages	Three sequential units of one world language, or no less than 2 sequential units of two world languages studied
5 GPA	3.5 on a 4.0 scale
6 ACT/SAT	ACT: Score of 27 or higher, SAT: Score of 1280 or higher
7 Fine Arts Seal	Meet local district requirements to earn the Fine Arts Seal
8 Experiential Learning	Field Experience & Portfolio, OhioMeansJobs Readiness Seal, or Work-Based Learning

Student Strength Demonstration Replacement

Students can use the Student Strength Demonstration to replace one of either the **ACT/SAT, GPA *or* World Language** requirement for any Honors Diploma. The Student Strength Demonstration options are listed below. The same options exist for each of the six honors diplomas* but, where relevant, should reflect coursework or experiences relevant to the theme of the Diploma. For example, a student earning the Academic Honors Diploma and using the College Credit Plus option to replace another requirement for the diploma should have College Credit Plus courses relevant to the Academic Honors diploma.

Options:

- College Credit Plus: 12 total College Credit Plus credit hours
- Advanced Placement: three courses with score of 3 or higher on AP tests
- Career-Technical Assurance Guide (CTAG): 12 total credits
- Apprenticeship/Pre-Apprenticeship: Completion or Evidence of Acceptance if required to be older than 18
- WorkKeys: Score of 6 or higher on all tests (*void for Career-Tech Honors Diploma)
- Armed Services Vocational Battery: Score of 50 or above on the ASVAB
- Work-Based Learning: 250 total hours of work-based learning

For Additional Information:

To learn more about Honors Diploma or get more detailed information please visit the following website at the Ohio Department of Education and Workforce: Honors Diplomas.

TESTING

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National Testing Program

Participation in the following test is highly recommended for students considering post high school education:

- ACT (American College Test) or SAT (Scholastic Aptitude Test)
- The PSAT (date determined in August of the current school year) will be administered to all students in 11th grade.
- Both the ACT and the SAT may be taken more than once. Seniors who have not taken the tests in their junior year should take the tests in the fall of the senior year.
    - Registration is to be done online.
    - Please note the registration deadline in order to avoid paying a late fee.
    - Fee waivers may be available to students based upon financial need. Waiver information and forms are available through your Guidance Counselor.

      SAT Waiver information ACT Waiver information
- Our District has adopted the SAT Suite of Assessments

SAT Test Dates	ACT Test Dates
August 15, 2026	**September 19, 2026**
September 12, 2026	**October 17, 2026**
October 3, 2026	**December 12, 2026**
November 7, 2026	**February 27, 2027**
December 5, 2026	**April 10, 2027**
March 13, 2027	**June 12, 2027**
May 1, 2027	**July 10, 2027**
June 5, 2027	

ADVANCED PLACEMENT

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AP Course Offerings at Willoughby-Eastlake

Mathematics	English	Social Studies	Science	Elective
AP Pre-Calculus	AP Seminar	AP US History	AP Biology	AP Spanish
AP Statistics	AP Literature and Composition	AP US Government and Politics	AP Chemistry	AP Art History
AP Calculus AB	AP Language and Composition	AP European History	AP Environmental Science	AP CyberSecurity
AP Calculus BC		AP Psychology	AP Physics 1	
			AP Physics 2	

- Advanced Placement courses offer students the opportunity to complete college-level studies at the high school level.
- All students enrolled in an AP course will be required to take the nationally administered AP exam in May.
- The cost of each AP Exam is currently $99, but this is subject to change per College Board.
- If a student has applied for and received the Free or Reduced status, the cost of the AP Exam will be reduced to $34.
- Each student is responsible for the cost of each AP Exam taken. *The fee is established by the College Board and is subject to change. It will be assessed as part of the annual student fee statement.
- A student who is successful on the AP examination(s) may enter college with some college credits already completed.
- Most colleges and universities accept a score of “3” or above in order to receive college credit. Check specific colleges/universities for requirements.
- An AP Grade Report available on the College Board website in early July.

COLLEGE CREDIT PLUS (CCP)

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CCP was established for high school students to earn credits through institutions of higher education.

- Qualified high school students may experience coursework at a college or university level while still in high school.
- A student admitted to a course by an institution of higher education will be expected and required to perform at the same level as the institution's regular students.
- Lakeland Community College is a primary partner of the Willoughby Eastlake City School District, however, students may choose to attend other institutions of higher education for CCP coursework.

College Credit Plus Requirements

- Student must be enrolled in both college and high school
- Student to earn transcripted college and high school credit upon successful completion of course
- Attend CCP information/registration sessions provided by the college/university
- Must meet college/university requirements for entrance
- Must complete the CCP "Intent to Participate" form prior to April 1, 2025
- Must apply to the college or university of choice by the appropriate deadline
- Must have successfully completed Algebra II and place in college level math to participate in math courses through CCP.
- Receive an eligibility score on the ACT, SAT, or Accuplacer per the chart below:

Readiness Area	ACT	SAT	Accuplacer
English	18	430 Writing and 450 Critical Reading	263
Math	21	500	***

******To participate in math courses through CCP through Lakeland, students must complete Algebra 2 and place into college level math. Lakeland's placement exam and/or ACT/SAT scores may be used.***

(Lakeland Community College requirements – requirements may vary based on college/university)

College Credit Plus Benefits

- Students can take courses not offered in the high school and/or take more advanced courses
- Provides opportunities for students to study "in-depth" areas of special interest or need
- Allows students to receive both high school and college credit while still in high school
- Reduces college costs while earning high school and college credit
- Students experience college-level work/life prior to making final decisions for the future

College Credit Plus Risks

- Possible effect on GPA and class standing if the course is not completed successfully
- Increases time for travel (student's responsibility) to and from school, study, etc.
- CCP students may be enrolled in courses with adult students and be subject to adult instructional materials.
- Grade reporting periods for colleges are often quite different from those for high schools.
- Financial obligations become the parent/student's responsibility if the student is withdrawn from the class after the identified grace period or if the student fails the class. Reimbursement is not required if the student is identified as being economically disadvantaged in accordance with Ohio Administrative Code 3333-1-65.6(B)(2).
- Vacation days at the home school and the CCP school may not coincide. CCP classes may be in session while the home school is on vacation.
- Students are responsible for acceptance of CCP credit by their college/university of choice for post high school attendance.

College Credit Plus Probation

A student will be placed on probation if a student earns lower than a 2.0 cumulative GPA in college courses or withdraws from two or more courses in the same term. When a student is on CCP probation the student may enroll in no more than one college course for the next term and may not enroll in a course in the same subject area in which the student previously earned a D or an F. The student remains on probation until the student has improved their cumulative college GPA to 2.0 or higher.

College Credit Plus Dismissal

A student will be dismissed from the CCP program when the student has met the definition of CCP probation for two consecutive college terms. Once a student is dismissed from the CCP program, the student may not enroll in college courses for the following college term. After one term on dismissal, the student may request an appeal of the CCP Dismissal status.

College Credit Plus Dismissal Appeal Process

Following one term of dismissal, a student may submit a request in writing to be reinstated to the College Credit Plus Program. *(Summer shall only be counted as a term if the student is enrolled in one or more high school courses during the summer)*. Upon receipt of the reinstatement request, the student's full high school and college academic record will be reviewed to determine whether the student has achieved academic progress and whether they will be reinstated on probation or without restriction.

Reinstatement on Probation: In order to be reinstated to the College Credit Plus Program on probation, the student must meet the following academic progress criteria:

1. **Maintain a 3.0 grade point average or higher for one academic high school semester.**
2. **Meet with their school counselor to develop an individual pathway plan that includes high school graduation requirements and possible college courses.**
3. **Daily attendance rate of 85% or higher during said high school semester.**

Reinstatement without Restriction: In order to be reinstated without any restrictions, the student must meet the following academic progress criteria:

1. **Complete appeals process and abide by the superintendent's decision (see below for appeals process).**

Appeals Process

Any student who is dismissed from the College Credit Plus Program or prohibited from taking a course in which the student earned a grade of "D" or "F" or for which the student received no credit, may appeal the decision to the Superintendent. **The appeal must be filed in writing within five (5) business days after the student is notified of the dismissal or prohibition against taking a course.** Upon receiving the written appeal, the Superintendent will notify each Institution of Higher Education in which the student is enrolled that the student has filed an appeal.

College Credit Plus Grading

- **Any disputes between students and local boards of education regarding high school credits granted for college work may be appealed to the State Board of Education whose decision is final.**
- **Student records must reflect evidence of successful completion of each course for high school credit to be awarded.**
- **The student's permanent record shall indicate the college and the courses taken for high school credit and the number of credits to be awarded.**
- **The grade shall be included in the calculation of the student's total grade point average as though the course were being taken in high school.**
- **A course taken for "pass/fail" shall indicate whether the student passed or failed, but shall not be considered in calculating the student's grade point average.**
- **Select CCP courses offered on the high school campus and/or college/university campus are weighted the same as advanced placement courses which are on a five (5) point scale per Ohio Statute.**

Below is a list of CCP classes that are taught on campus as Dual Enrollment at either North/South or Both.

CCP Offerings – Fall 2026 (1st Semester)	CCP Offerings – Spring 2027 (2nd Semester)
ACCT 1100 Intro to Financial Accounting	ACCT 1200 Intro to Managerial Accounting
ENGL 1110 English Composition I	ENGL 1120 English Composition II
ENGL 2210 Introduction to Fiction	ENGL 2225 Graphic Fiction and Narrative
HIST 1150 Western Civilization I	HIST 1250 Western Civilization I: Antiquity -Reformation
HIST 1450 World Civilization I: The Ancient and Medieval World	HIST 1550 World Civilization II: The Modern World
HIST 2150 US History: Colonization - Reconstruction	HIST 2250 US History: Reconstruction - Present
MATH 1650 College Algebra	MATH 1700 Trigonometry
PHYS 1610 General Physics I	PHYS 1620 General Physics II
PSYC 1500 Introduction to Psychology	

NCAA COURSE REQUIREMENTS

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A student who plans to attend a Division I or II college, or a college with Division I or II athletics, and who plans to participate in athletics at that school must complete a core curriculum of courses in order to be eligible for athletic participation.

The core curriculum consists of courses in the following areas:

Division I (16 core courses required)	Division II (16 core courses required)
• 4 years of English • 3 years of mathematics (Algebra 1 or higher) • 2 years of natural/physical science (1 year of a lab science class) • 1 year additional English, mathematics or natural/physical science • 2 years of social science • 4 years of additional courses from any area above, world language or nondoctrinal religion/philosophy	• 3 years of English • 2 years of mathematics (Algebra 1 or higher) • 2 years of natural/physical science (1 year of a lab science class) • 3 years additional English, mathematics or natural/physical science • 2 years of social science • 4 years of additional courses from any area above, world language or nondoctrinal religion/philosophy

A student who plans to attend a Division I or II college, or a college with Division I or II athletics, and who plans to participate in athletics at that school and plans to enroll in CCP courses must recognize that the courses are NCAA-approved as long as the class meets the following criteria:

- is at the 100 level or above
- is worth at least 3 semester hours to equal 1 Carnegie unit
- is a course within one of the core areas
- appears on the student's high school transcript

Test Scores

Division I has a sliding scale of test scores and grade-point averages. See your counselor for details.

Division II has a minimum SAT score of 820 or ACT sum score of 68 (total English, mathematics, reading, and science scores).
Note: All SAT and ACT scores must be reported directly to the NCAA Initial-Eligibility Clearinghouse by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Clearinghouse code of “9999” to make sure the score is reported directly to the Clearinghouse.

Grade-Point Average

Only core courses are used in the calculation of the grade-point average. Make sure you look at the high school’s list of NCAA-approved core courses on the Clearinghouse Web site. See your counselor for your grade-point average and to check if a particular high school course is NCAA approved.

Click here to register at the NCAA Website

All students must be determined to be eligible by the NCAA Clearinghouse. This requires an official transcript. There is no other way to determine eligibility. See your counselor about the Clearinghouse.

COURSE OFFERINGS

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Business Courses

The Number of Credits is in ( )

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5500 - Introduction to Business (½)

Available in Grades 9 10 11 12

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

5502 - Accounting (1)

Available in Grades 9 10 11 12

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

5507- Business Lab I (1)

Available in Grades 9 10 11 12

- [ ] Traditional
- [ ] Flex
- [x] PBL
- [ ] POWER

5508- Business Lab II (1)

Available in Grades 10 11 12

- [ ] Traditional
- [ ] Flex
- [x] PBL
- [ ] POWER

9308 - Marketing I (½)

Available in Grades 10 11 12

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

9309 - Marketing II (½)

Available in Grades 11 12

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

Family and Consumer Science Courses

The Number of Credits is in ( )

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1300 - Career Exploration I (½)

Available in Grades 9 10 11 12

- [ ] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

6508 - Child Development (½)

Available in Grades 9 10 11 12

- [x] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

6402 - Creative Cooking (½)

Available in Grades 9 10 11 12

- [ ] Traditional
- [ ] Flex
- [x] PBL
- [ ] POWER

6502 - Food for Fitness (½)

Available in Grades 9 10 11 12

- [x] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

6506 - Independent Living (½)

Available in Grades 9 10 11 12

- [x] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

General Elective Courses

The Number of Credits is in ( )

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1110 - Academic Decathlon (1)

Available in Grades 9 10 11 12

- [ ] Traditional
- [ ] Flex
- [x] PBL
- [ ] POWER

800 - ACT/SAT Prep (½)

Available in Grades 11 12

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

1607 - Financial Literacy (½ Credit)

Available in Grades 11

- [x] Traditional
- [x] Flex
- [ ] PBL
- [x] POWER

Health and Physical Education Courses

The Number of Credits is in ( )

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8302 - Competitive Team Sports I (¼)

Available in Grades 9

- [x] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

8303 - Competitive Team Sports II (¼)

Available in Grades 9 10 11 12

- [x] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

8304 - Lifelong Wellness I (¼)

Available in Grades 9 10 11 12

- [x] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

8305 - Lifelong Wellness II (¼)

Available in Grades 9 10 11 12

- [x] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

8306 - Strength & Conditioning I (¼)

Available in Grades 9 10 11 12

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

8307 - Strength & Conditioning II (¼)

Available in Grades 9 10 11 12

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

8603 - Plyometrics and Conditioning (½)

Available in Grades 9 10 11 12

- [ ] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

8401 - Health (½)

Available in Grades 10 11 12

- [x] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

English 4 Credits Required

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	9th Grade	10th Grade	11th Grade	12th Grade
College Prep	301 - English 1 ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	401 - English 2 ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	508 - English 3 ☑ Traditional ☑ Flex ☐ PBL ☑ POWER	608 - English 4 ☑ Traditional ☑ Flex ☐ PBL ☑ POWER
Honors	310 - English 1 Honors ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	421 - English 2 Honors ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	531 - English 3 Honors ☑ Traditional ☑ Flex ☐ PBL ☑ POWER	631 - English 4 Honors ☐ Traditional ☐ Flex ☐ PBL ☐ POWER
AP		AP Seminar ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	532 - AP Language and Comp. ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	621 - AP Literature and Comp. ☑ Traditional ☑ Flex ☐ PBL ☐ POWER

English 2, English 2 Honors, and AP Seminar (taken in 10th grade) culminate with an End of Course Assessment from the State that is used Show Competency for Graduation Requirements

English Electives help to build your transcript for College Admissions and grow your Knowledge of the English Language

English Elective Courses The Number of Credits is in ( )

504 - Creative Writing (½) Available in Grades 9 10 11 12 ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**511 - Drama/Theater (½)** Available in Grades 9 10 11 12 ☐ Traditional ☐ Flex ☑ PBL ☐ POWER	**512 - Yearbook (1)** Available in Grades 9 10 11 12 ☐ Traditional ☐ Flex ☑ PBL ☐ POWER	**626 - 21st Century Media Literacy (½)** Available in Grades 10 11 12 ☑ Traditional ☐ Flex ☐ PBL ☐ POWER
500 - Speech/Oral Interpretation (½) Available in Grades 10 11 12 ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**503 - Literature as Film I (½)** Available in Grades 10 11 12 ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**514 - Literature as Film II (½)** Available in Grades 10 11 12 ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**625 - Mythology (½)** Available in Grades 10 11 12 ☑ Traditional ☐ Flex ☐ PBL ☐ POWER
505 - Contemporary Literature (½) Available in Grades 11 12 ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**613 - Writing for College I (½)** Available in Grades 11 12 ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**614 - Writing for College II (½)** Available in Grades 11 12 ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**529 - British Literature (½)** Available in Grades 12 ☑ Traditional ☐ Flex ☐ PBL ☐ POWER

CCP/Dual Credit	ENGL 2210 Introduction to Fiction ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	ENGL 2225 Graphic Fiction and Narrative ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	881110 - English Composition I ☐ Traditional ☐ Flex ☐ PBL ☐ POWER	881120 - English Composition II ☐ Traditional ☐ Flex ☐ PBL ☐ POWER

Fine Arts Courses - Music The Number of Credits is in ( )

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7401 - Symphonic Band (1)	7403 - Wind Symphony (1)	7412 - Mixed Choir (1)	7416 - Treble Choir (1)
Available in Grades 9 10 11 12	Available in Grades 9 10 11 12	Available in Grades 9 10 11 12	Available in Grades 10 11 12
☐ Traditional ☐ Flex	☐ Traditional ☐ Flex	☐ Traditional ☐ Flex	☐ Traditional ☐ Flex
☑ PBL ☐ POWER	☑ PBL ☐ POWER	☑ PBL ☐ POWER	☑ PBL ☐ POWER
7512 - Concert Choir (1)	**7503 - Music Theory & Harmony (1)**		
Available in Grades 9 10 11 12	Available in Grades 10 11 12		
☐ Traditional ☐ Flex	☐ Traditional ☐ Flex		
☑ PBL ☐ POWER	☑ PBL ☐ POWER		

Fine Arts Courses - Visual Arts The Number of Credits is in ( )

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7404 - Art I Honors (1)	7405 - Art I (1)	7414 - Art Appreciation (1)	7407 - Ceramics I (½)
Available in Grades 9 10 11 12	Available in Grades 9 10 11 12	Available in Grades 9 10 11 12	Available in Grades 9 10 11 12
☐ Traditional ☑ Flex	☑ Traditional ☑ Flex	☐ Traditional ☐ Flex	☐ Traditional ☐ Flex
☐ PBL ☐ POWER	☐ PBL ☐ POWER	☐ PBL ☐ POWER	☑ PBL ☐ POWER
7507 - Ceramics II (½)	**2617 - Digital Media Productions I (½)**	**2618 - Digital Media Productions II (½)**	**7406 - Art II (1)**
Available in Grades 9 10 11 12	Available in Grades 9 10 11 12	Available in Grades 9 10 11 12	Available in Grades 10 11 12
☐ Traditional ☐ Flex	☐ Traditional ☑ Flex	☐ Traditional ☑ Flex	☑ Traditional ☑ Flex
☑ PBL ☐ POWER	☐ PBL ☐ POWER	☐ PBL ☐ POWER	☐ PBL ☐ POWER
7408 - Graphic Design I (½)	**7408B - Graphic Design II (½)**	**513 - Digital Art and Design I (½)**	**515 - Digital Art and Design II (½)**
Available in Grades 10 11 12	Available in Grades 10 11 12	Available in Grades 10 11 12	Available in Grades 10 11 12
☐ Traditional ☐ Flex	☐ Traditional ☐ Flex	☐ Traditional ☐ Flex	☐ Traditional ☐ Flex
☐ PBL ☐ POWER	☐ PBL ☐ POWER	☐ PBL ☐ POWER	☐ PBL ☐ POWER
7502 - Art III (1)	**7409 - AP Art History (1)**	**7602 -Art IV (1)**	**7603 - Community Service Through Art I (½)**
Available in Grades 11 12	Available in Grades 11 12	Available in Grades 12	Available in Grades 10 11 12
☐ Traditional ☐ Flex	☐ Traditional ☐ Flex	☐ Traditional ☐ Flex	☐ Traditional ☐ Flex
☑ PBL ☐ POWER	☐ PBL ☐ POWER	☑ PBL ☐ POWER	☑ PBL ☐ POWER
7604 - Community Service Through Art II (½)			
Available in Grades 10 11 12			
☐ Traditional ☐ Flex			
☑ PBL ☐ POWER			

Mathematics				Back to Table of Contents
	Foundations Pace	**Core Pace**	**Accelerated Pace**	**Advanced Pace**
Grade 9	**3093A - Algebra 1 - A** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**3093 - Algebra 1** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**3091 - Honors Geometry** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**3101 - Honors Algebra 2 w/Trig** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER
Grade 10	**3093B - Algebra 1 - B** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**3103 - Geometry** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**3101 - Honors Algebra 2 w/Trig** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**3119 - AP Pre-Calculus** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER
Grade 11	**3103 - Geometry** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**3116 - Algebra 2 or Equivalent** ☑ Traditional ☑ Flex ☐ PBL ☑ POWER	**3119 - AP Pre-Calculus** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**3121 - AP Calculus AB** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER
Grade 12	**3116 - Algebra 2 or Equivalent** ☑ Traditional ☑ Flex ☐ PBL ☑ POWER	**3123 - Pre-Calculus or 4th year Option** ☑ Traditional ☐ Flex ☐ PBL ☑ POWER	**3121 - AP Calculus AB** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**3126 - AP Calculus BC** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER

Mathematics Options				
Algebra 2 Equivalent Courses	**3114 - Advanced Quantitative Reasoning** ☑ Traditional ☐ Flex ☑ PBL ☐ POWER	**3115 - Data Science Foundations** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**3116 - Discrete Math and Computer Science** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	
4th Year Options	**3124 - Financial Algebra** ☑ Traditional ☐ Flex ☐ PBL ☑ POWER	**3123 - Pre-Calculus** ☑ Traditional ☐ Flex ☐ PBL ☑ POWER	**3119 - AP Pre-Calculus** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**Any other Algebra 2 equivalent course not already taken.**
When to take AP Statistics	**3125 - AP Statistics** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	While AP Statistics can be taken by any student once they have completed Algebra 2, we suggest AP statistics be taken by students in their Sophomore or Junior year after completion of Honors Algebra 2 w/Trig.		
Option after Pre-Calc or AP Pre-Calc	**3122 - Intro to College Math** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	Intro to College Math (ITCM) is a class designed for Junior or Senior students who have completed Pre-Calc or AP Pre-Calc. The purpose of the course is to expose students to Calculus and Statistics content without the pressure of AP but with the understanding of the necessity of keeping up their math acumen as they determine collegiate next steps.		
CCP/Dual Credit	881650 - College Algebra ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	881700 - Trigonometry ☑ Traditional ☐ Flex ☐ PBL ☐ POWER		

Science

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A student must complete 3 Credits of Science. The credits must be earned from the following domains:

1) **Physical Sciences**
2) **Life Sciences**
3) **Advanced Study**

A course can count for Advanced Study and Physical or Life Sciences. However, 3 science credits still need to be earned

Physical Science	**College Prep**	**2302 - Physical Science** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**2507 - Chemistry** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**2602 - Physics** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER
	Honors	**2500 - Honors Chemistry** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER		
	Advanced Placement	**2631 - AP Chemistry** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**2641 - AP Physics 1** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**2605 - AP Physics 2** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER

Life Science	**College Prep**	**2403 - Biology** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER		
	Honors	**2401 - Honors Biology** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**2645 - Honors Human Anatomy and Physiology** ☑ ☑ ☐ ☐	
	Advanced Placement	**2621 - AP Biology** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**2423 - AP Environmental Science** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	•

Advanced Study	**College Prep**	**2507 - Chemistry** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**2602 - Physics** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**2421 - Environmental Science** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER
	Honors	**2500 - Honors Chemistry** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**2401 - Honors Biology** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	
	Advanced Placement	**2631 - AP Chemistry** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**2641 - AP Physics 1 and 2** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**2423 - AP Environmental Science** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER

Science Electives **The Number of Credits is in ( )**

2645 - Honors Human Anatomy and Physiology (1)	**2643 - Astronomy (½)**	**2642 - Forensic Science (½)**	**2611 - Project Lead The Way Engineering Essentials**
Available after Biology or Honors Biology	**Available in Grades 9 10 11 12**	**Available after or during Biology or Hon Biology**	**Available in Grades 10 11 12**
☑ Traditional ☑ Flex ☐ PBL ☐ POWER	☑ Traditional ☑ Flex ☐ PBL ☐ POWER	☑ Traditional ☐ Flex ☐ PBL ☐ POWER	☑ Traditional ☑ Flex ☑ PBL ☐ POWER

Social Studies

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Required Social Studies Courses
3 Credits
Must include World History, US History, and US Government (If AP US Government is taken, this will satisfy your 3 credits. If US Government for a semester is taken, you will need a minimum of (0.5) credits more to satisfy the 3 credit.)

Grade 9	**World History**	**1315 - World History and Civilizations** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**1316 - Honors World History and Civilizations** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	
Grade 10	**United States History**	**1402 - United States History** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**1403 - Honors United States History** ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**1621 - AP United States History** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER
Grade 11	**Government and Financial Literacy**	**1506 - United States Government (½ Credit)** ☑ Traditional ☑ Flex ☐ PBL ☑ POWER	**1623 - AP United States Government (Full Year)** ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	

Social Studies Electives

1502 - Sociology (0.5) Available in Grades 10 11 12 ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**1503 - Psychology (0.5)** Available in Grades 10 11 12 ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**1504 - AP Psychology** Available in Grades 10 11 12 ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**1727 - Microeconomics** Available in Grades 10 11 12 ☑ Traditional ☐ Flex ☐ PBL ☐ POWER
1728 - Macroeconomics Available in Grades 10 11 12 ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**1510 - US Military: Past, Present, Future** Available in Grades 10 11 12 ☑ Traditional ☐ Flex ☐ PBL ☐ POWER	**1624 - Senior Seminar I Post World War II Era (0.5)** Available in Grades 12 ☑ Traditional ☑ Flex ☐ PBL ☐ POWER	**1625 - Senior Seminar II - The Modern Era (0.5)** Available in Grades 12 ☑ Traditional ☑ Flex ☐ PBL ☐ POWER
1630 - AP European History Available in Grades 12 ☑ Traditional ☐ Flex ☐ PBL ☐ POWER			

Technology - Computer Education Courses The Number of Credits is in ( )

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3900 - Computer Applications (½)

Available in Grades 9 10 11 12

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

901 - Advanced Computer Applications (½)

Available in Grades 9 10 11 12

- [ ] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

3902 - Programming (½)

Available in Grades 9 10 11 12

- [ ] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

2601 - STEM Robotics (½)

Available in Grades 9 10 11 12

- [ ] Traditional
- [x] Flex
- [x] PBL
- [ ] POWER

2607- STEM Digital Fabrication I (½)

Available in Grades 9 10 11 12

- [ ] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

2608- STEM Digital Fabrication II (½)

Available in Grades 9 10 11 12

- [ ] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

2609- STEM Digital Fabrication III (½)

Available in Grades 9 10 11 12

- [ ] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

12001 - CyberSecurity 1 (1)

Available in Grades 10 11 12

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

12002 - CyberSecurity 2 (1)

Available in Grades 10 11 12

- [x] Traditional
- [x] Flex
- [x] PBL
- [ ] POWER

12003 - AP CyberSecurity (1)

Available in Grades 10 11 12

- [x] Traditional
- [x] Flex
- [x] PBL
- [ ] POWER

World Language

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2 or 3 years of a World Language is typically a requirement for admission into a 4 year college. Those 2 or 3 years must be in the same language.

French

4301 - French I

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

4401 - French II

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

4501 - French III

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

4601 - French IV Honors

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

Spanish

4304 - Spanish I

- [x] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

4404 - Spanish II

- [x] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

4504 - Spanish III

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

4604 - Spanish IV Honors

- [x] Traditional
- [x] Flex
- [ ] PBL
- [ ] POWER

4704 - AP Spanish

- [x] Traditional
- [ ] Flex
- [ ] PBL
- [ ] POWER

4705- Spanish V Experiential Learning

- [x] Traditional
- [x] Flex
- [x] PBL
- [ ] POWER

Lakeland Community College On Campus CCP Course Offerings

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ACCT 1100 Intro to Financial Accounting - 4 Semester Hours (1st Semester)
This course examines financial accounting and reporting with emphasis on analysis and interpretation from a user perspective. The course covers the accounting principles underlying the accounting cycle, income measurement using accrual accounting, asset valuation, ratio analysis, and cash flow. Students will study the major components of the financial statements included in the corporation annual report.

ACCT 1200 – Intro to Managerial Accounting - 3 Semester Hours (2nd Semester)
This course examines managerial accounting tools and techniques used by decision makers to help make an organization's operation more effective and efficient. Students will apply basic managerial accounting concepts to problems of management planning, control, decision making, and performance evaluation. Topics covered include job order cost and analysis, process cost and analysis, activity-based cost and analysis, variable cost, cost behavior and cost volume-profit analysis, budgeting, standards cost, relevant cost, and capital budgeting. Prerequisite: ACCT 1100

ENGL 1110 English Composition I (A) - 3 Semester Hours (1st Semester)
This course focuses on the writing process and on the composition of expository writing assignments, including personal, informational, and critical essays. Students will read and analyze expository and imaginative texts (fiction, nonfiction, poetry, or drama). Because of duplication in course content, students who have taken ENGL 1111 English Composition I (B) should not take this course. Prerequisite: Placement Test

ENGL 1120 English Composition II - 3 Semester Hours (2nd Semester)
This course analyzes argumentative strategies, models, and texts. Students will focus on the research process: identifying sources through electronic and print-based research strategies, evaluating research materials, and integrating and synthesizing research material. The course culminates in the production of a fully documented argumentative paper. Prerequisite: ENGL 1110 or ENGL 1111

ENGL 2210 Introduction to Fiction - 3 Semester Hours (1st Semester)
This course explores fiction as an art form through analysis of the techniques and characteristics of its various genres, including short stories, novellas, and novels. Students will study fiction elements and strategies, including point of view, plot, setting, character, theme, and literary devices. Prerequisite: ENGL 1110 or ENGL 1111

ENGL 2225 Graphic Fiction and Narrative - 3 Semester Hours (2nd Semester)
This course explores graphic fiction and narrative as art forms through analysis of the genre's techniques and characteristics, including collected short stories, series, adaptations, and novels. Students will study graphic fiction elements and strategies, including point of view, plot, setting, character, theme, and its literary and visual devices. Prerequisite: ENGL 1110 or ENGL 1111

HIST 1150 Western Civilization I: Antiquity - the Reformation - 3 Semester Hours (1st Semester)
This course provides a survey of the origins and growth of the social, religious, political, and economic foundations of Western European culture through the end of the Reformation, concluding in 1648.

HIST 1250 Western Civilization II: Age of Revolution - the Present - 3 Semester Hours (2nd Semester)
This course provides a survey of the development of modern European society from the age of absolutism to the present. It is designed to provide students with an understanding of the political, religious, economic, intellectual, and cultural evolution of the western tradition from 1648 to the present.

HIST 1450 World Civilizations I The Ancient and Medieval World - 3 Semester Hours (1st Semester)
This course is a survey of world history from its earliest origins in the Near East through 1500. It is designed to provide students with an understanding of the Western and non-Western political, religious, economic,intellectual, and cultural evolution of world history.

HIST 1550 World Civilizations II The Modern World - 3 Semester Hours (2nd Semester)
The course explores the development of the world from 1500 to the present. It is designed to provide students with an understanding of the key facets of non-Western and Western social, political, economic, cultural, religious, and intellectual history. (3 contact hours)

HIST 2150 U.S. History I: Colonization - Reconstruction 3 Semester Hours (1st Semester)
This in-depth course examines the factors, from the sixteenth through the third quarter of the nineteenth century, which resulted in the creation of the unique American civilization. The course emphasizes the interaction between the American demographic and geographical environment, and the cultural influence of European colonists along with African contributions. It also focuses on the political, economic, cultural, and social developments that brought about the Civil War and attempts at Reconstruction.

HIST 2250 U.S. History II: Reconstruction - Present 3 Semester Hours (2nd Semester)
This course traces the development of the United States from the conclusion of Reconstruction (1877) to the present. It examines those components that transformed the United States into a world power and the changes in the role and position of the government in the lives of its people and institutions.

MATH 1650 College Algebra - 4 Semester Hours (1st Semester)
This course uses an integrated laboratory and lecture approach to investigate and solve relations and functions numerically, analytically, and graphically. Topics include solutions of polynomial, rational, exponential, and logarithmic equations and inequalities; systems of linear and nonlinear equations; matrix solutions, determinants, conic sections, sequences and series, and mathematical modeling. Students must supply a graphing calculator. Prerequisite: MATH 0950 or Placement Test

MATH 1700 Trigonometry - 3 Semester Hours (2nd Semester)
This course includes the study of trigonometric functions and inverse trigonometric functions and their graphs; solutions of right and oblique triangles and their applications; solutions of trigonometric equations and inequalities; the use of identities, vectors, and complex numbers; and solutions of polar equations and parametric equations. Students must supply a graphing calculator.
Prerequisite: MATH 1650 or Placement Test

PHYS 1610 General Physics I - 5 Semester Hours (1st Semester)
Prerequisite: MATH 1650 or permission of instructor This is the first course in a two-course introductory physics sequence designed for students not majoring in engineering, physics, or chemistry. Topics, which are algebra/trigonometry-based, include vectors, kinematics, Newton's laws, energy, linear and angular momentum, rotational dynamics, fluids and thermodynamics. Students will complete experiments related to these topics in the lab. (7 contact hours: 4 lecture, 3 lab)

PHYS 1620 General Physics II - 5 Semester Hours (2nd Semester)
Prerequisite: PHYS 1610 or permission of instructor This course is a continuation of PHYS 1610 General
Physics I. Topics, which are algebra/trigonometry based, include electrostatics, DC series and parallel circuits, electromagnetism, simple AC circuits, mechanical waves, geometric and physical optics, and modern physics. Students will complete experiments related to these topics in the lab. (7 contact hrs: 4 lecture, 3 lab)

PSYC 1500 Introduction to Psychology - 3 Semester Hours (1st Semester)
This course, as outlined by the American Psychological Association, provides a general introduction to the discipline of psychology. It covers the origins of psychology, major perspectives in contemporary psychology, research methodology, biological bases of psychological functions, sensation and perception, consciousness, learning, memory, human development across the lifespan, social psychology, personality, psychopathology, and therapy.

Business COURSES

Return to Business Course Offerings

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5502 Accounting	1 Elective Credit	Two Semester

Prerequisite: Algebra 1

Description: This course highlights the fundamental principles and concepts that apply to everyday modern business and finance. It emphasizes the complete accounting cycle for a sole proprietorship and corporate accounting. Students will learn to analyze, journalize and post business transactions and to prepare and analyze financial statements. This course also includes computer-based simulation projects at the end of each semester. It is an excellent preparation for entry-level jobs and is highly recommended for students planning to study or major in business at a college or university.

Fee Required: None

5507 Business Lab/School Store	1 Elective Credit	Two Semester

Prerequisite: None

Description: Students will learn how to successfully operate and work in the school store. Students will study retail store operations and business functions including customer service, management, accounting, marketing, purchasing, inventory control, and selling. Students will also learn skills and work in the school store outside of the regular class sessions.

Fee Required: None

5508 Business Lab/School Store II	1 Elective Credit	Two Semester

Prerequisite: Business Lab/School Store I

Description: Students will apply the knowledge they learned in Business Lab/School Store I to successfully operate and work in the school store. Students will apply knowledge such as retail store operations and business functions including customer service, management, accounting, marketing, purchasing, inventory control, and selling. Students will also learn skills and work in the school store outside of the regular class sessions. Prerequisite; Business Lab/School Store I

Fee Required: None

5500 Introduction to Business	½ Elective Credit	One Semester

Prerequisite: None

Description: Students will be exposed to many areas of business which will enable them to demonstrate knowledge of business terms and concepts, economic principles, entrepreneurial skills, business communications, accounting, management of human resources, basic marketing concepts, business law, international business, financial literacy, and current events related to business. It will allow students to browse and select other business courses that may interest them after having previewed all aspects of business through Introduction to Business.

Fee Required: None

9308 Marketing I	½ Elective Credit	One Semester

Prerequisite: None

Description: In this course, students will develop fundamental skills and knowledge of the marketing functions, including marketing communications, marketing research, pricing, selling, branding, and advertising. Students will also learn about product and service development and social media marketing and communication. Students will have the opportunity to participate in hands-on marketing projects for district and community events.

Fee Required: None

9309 Marketing II	½ Elective Credit	One Semester

Prerequisite: Marketing I

Description: In this course, students will build on the fundamental skills and knowledge they obtained in Marketing and Finance B. Students will expand their knowledge of product and service development and social media marketing and communication and have the opportunity to participate in hands-on marketing projects for district and community events

Fee Required: None

ENGLISH COURSES

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626 21st Century Media Literacy	½ Elective Credit	One Semester

Prerequisite: None

Description: This course is designed to facilitate proper usage of previously learned core English skills to expand critical understanding of information. Students will learn proper research and citation skills needed for college, learn how to identify authoritative and quality sources of information, understand and evaluate rhetorical skills, proper and responsible social media etiquette, and build a better understanding of media literacy in everyday life.

Fee Required: None

532 AP English Language and Composition	1 English Credit	Two Semesters

Prerequisite: Recommendation

Description: AP English Language and Composition is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situations, claims and evidence, reasoning and organization, and style.

Fee Required: Students enrolled in this course are required to take the A.P. Exam in May

621 AP English Literature and Composition	1 English Credit	Two Semesters

Prerequisite: Recommendation

Description: AP English Literature and Composition is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works.

Fee Required: Students enrolled in this course are required to take the A.P. Exam in May

548 AP Seminar	1 English Credit	Two Semesters

Prerequisite: Recommendation

Description: AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Students learn to investigate a problem or issue, analyze arguments, compare different perspectives, synthesize information from multiple sources, and work alone and in a group to communicate their ideas.

Fee Required: Students enrolled in this course are required to take the A.P. Exam in May

529 British Literature	½ English Credit	One Semester

Prerequisite: None

Description: This semester-long course provides a generalized overview of British literature from the Dark Ages to the Contemporary period. As students are exposed to these great works, they are also making connections with universal themes still evident in our own world.

Fee Required: None

505 Contemporary Literature	½ English Credit	One Semester

Prerequisite: None

Description: This course explores global literature from the twentieth century to the present, emphasizing research and critical analysis skills needed for college success. Students also engage in creative writing, including poetry, short fiction, and essays. Designed for juniors and seniors, the course examines contemporary works that address modern issues and themes.

Fee Required: None

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504 Creative Writing	½ English Credit	One Semester

Prerequisite: None

Description: This course engages students in developing creative writing skills through daily writing, experimentation with multiple genres, and the study of professional models. Students write from varied prompts, share and revise their work through peer feedback, and refine grammar and style to produce clear, original compositions. Each student compiles a portfolio of their creative work.

Fee Required: None

301 English 1	1 English Credit	Two Semesters

Prerequisite: None

Description: Students develop close reading, writing, speaking, and analytical skills through the study of diverse literary and informational texts. Emphasis is placed on composition, textual evidence, standard English conventions, research, and communication skills aligned with Ohio's Learning Standards for English 9–10. Students are responsible for obtaining required major literary texts.

Fee Required: None

310 English 1 Honors	1 English Credit	Two Semesters

Prerequisite: Recommendation

Description: In this weighted honors course, students build advanced close reading, writing, speaking, and analytical skills through the study of diverse literary and informational texts. Instruction aligns with Ohio's English 9–10 Learning Standards and emphasizes composition, research, and effective communication. The accelerated and enriched curriculum requires greater depth of study, independent learning, and more sophisticated writing in content and style. Students are responsible for obtaining required major literary texts.

Fee Required: None

401 English 2	1 English Credit	Two Semesters

Prerequisite: None

Description: Students strengthen close reading, writing, speaking, and analytical skills through the study of diverse literary and informational texts. Instruction emphasizes organized, multi-paragraph writing using standard English conventions, along with research, communication, and critical thinking skills aligned with Ohio's English 9–10 Learning Standards. Students must obtain required major literary texts and complete the English II end-of-course exam.

Fee Required: None

421 English 2 Honors	1 English Credit	Two Semesters

Prerequisite: Recommendation

Description: In this weighted honors course, students develop advanced close reading, writing, speaking, and analytical skills through diverse literary and informational texts. Emphasis is placed on well-organized, multi-paragraph writing using standard English conventions, along with research, communication, and critical thinking skills aligned with Ohio's English 9–10 Learning Standards. The accelerated and enriched curriculum requires greater independence in literary analysis and more sophisticated writing in content and style. Students must obtain required major literary texts and complete the English II end-of-course exam.

Fee Required: None

522 English 3	1 English Credit	Two Semesters

Prerequisite: None

Description: Students study foundational works of American literature from Native American and colonial periods to the contemporary era, examining key authors and historical contexts. The course emphasizes close reading, writing, textual analysis, and speaking skills, with regular practice in producing clear, coherent essays using standard English conventions. Instruction aligns with Ohio's English 11–12 Learning Standards, and students are responsible for obtaining required major literary texts.

Fee Required: None

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531 English 3 Honors	1 English Credit	Two Semesters

Prerequisite: Recommendation

Description: In this weighted honors course, students analyze foundational works of American literature from Native American and colonial periods to the contemporary era, studying key authors and historical contexts. The course emphasizes advanced close reading, writing, textual analysis, and speaking skills, with regular practice in producing clear, coherent essays using standard English conventions. The accelerated and enriched curriculum requires greater independence and more sophisticated writing in content and style, aligned with Ohio's English 11–12 Learning Standards. Students are responsible for obtaining required major literary texts.

Fee Required: None

622 English 4	1 English Credit	Two Semesters

Prerequisite: None

Description: Students study significant works and styles of British literature, exploring the history of the English language, major authors, and the historical contexts of literary periods. The course emphasizes close reading, writing, textual analysis, and speaking skills, with regular practice in producing clear, coherent essays using standard English conventions. Instruction aligns with Ohio's English 11–12 Learning Standards, and students are responsible for obtaining required major literary texts.

Fee Required: None

631 English 4 Honors	1 English Credit	Two Semesters

Prerequisite: Recommendation

Description: In this weighted honors course, students analyze major works and styles of British literature, exploring the history of the English language, influential authors, and the historical contexts of literary periods. Emphasis is placed on advanced close reading, writing, textual analysis, and speaking skills, with regular practice in producing clear, coherent essays using standard English conventions. The accelerated and enriched curriculum requires greater independence and more sophisticated writing in content and style, aligned with Ohio's English 11–12 Learning Standards. Students are responsible for obtaining required major literary texts.

Fee Required: None

503 Literature as Film I	½ English Credit	One Semester

Prerequisite: None

Description: This course explores the relationship between literature and film. During the course, students will explore how a film is produced from script to screen, get an introductory look into the process and art of filmmaking, and produce a short film of their own. Class discussion around literature and films is an integral part of this course, therefore attendance, oral communication, and critical thinking skills are required.

Fee Required: None

514 Literature as Film II	½ English Credit	One Semester

Prerequisite: Successful completion of Literature as Film I

Description: This course is for students interested in an English course which builds off of the screenwriting, photography, editing, and overall filmmaking skills learning in Literature as Film I . During the course, students will not only learn more about adapting literary works and characters to film, but do more hands-on work while learning about the making of film, exploring different creative and technical writing skills to apply to screenplays, and producing a larger and more complex group film as a final project.

Fee Required: None

625 Mythology	½ English Credit	One Semester

Prerequisite: None

Description: This course will focus on the myths of ancient Greece and Rome, as a way of exploring the nature of myth and the function it plays for individuals, societies, and nations. Students will use reading and writing skills to create projects and presentations to showcase their knowledge. Students will also study plays, both comedies and tragedies from the Greek and Roman era, such as but not limited to the plays based on Homer's The Iliad and The Odyssey.

Fee Required: None

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500 Speech/Oral Interpretation	½ English Credit	One Semester

Prerequisite: None

Description: This course introduces students to key communication skills, including public speaking, media literacy, and technical writing. Students use the writing and research processes, along with technology-based tools, to create and present speeches and publications, building confidence, clarity, and effective presentation skills.

Fee Required: None

613 Writing for College I	½ English Credit	One Semester

Prerequisite: None

Description: This course prepares college-bound students for academic writing through daily practice in multiple prose forms, including narrative, expository, analytical, and persuasive writing. Emphasis is placed on the writing process, standard English conventions, and writing across the curriculum. Students also develop college application and essay-writing skills.

Fee Required: None

614 Writing for College II	½ English Credit	One Semester

Prerequisite: Successful Completion of Writing for College I

Description: This course provides college-bound students with daily practice in the prose forms required for college-level writing, including narrative, expository, analytical, and persuasive modes. Emphasis is placed on the writing process, writing across the curriculum, and mastery of standard English conventions. Students also review college applications and develop effective college admission essays.

Fee Required: None

511 Drama/Theater	½ English Credit	One Semester

Prerequisite: Audition

Description: This course will provide knowledge of the principles of drama and hands-on experience of all aspects of theatrical productions.

Fee Required: None

512 Yearbook	1 English Credit	Two Semester

Prerequisite: None

Description: Yearbook will be a project based class that will focus on the planning, creation, selling, financing, and distribution of the school yearbook. The finished project will be completely student generated. In this course, students will gain skills in one or more of the following areas: page design, advanced publishing techniques, copywriting, editing and photography while producing a creative, innovative yearbook which records school memories and events. Participants will gain useful, real world skills in time management, marketing, teamwork, and design principles. Work outside of normal classroom hours will be necessary for this class.

Fee Required: None

FAMILY AND CONSUMER SCIENCES (FSC) COURSES

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1300 Career Exploration I	½ Family and Consumer Science Credit	One Semester

Prerequisite: None

Description: This course will encourage you to think about your future. You will take a close look at potential career opportunities that match your personal aptitudes, passions and interests. Whether you have set your sights on college, technical schools, or the military, this course will lead you through the steps to plan your future. Learn about employability skills, interviewing, career options, requesting letters of recommendation, writing admission essays, job shadowing and creating a portfolio.

Fee Required: None

6508 Child Development	½ Family and Consumer Science Credit	One Semester

Prerequisite: None

Description: Have you ever considered a career as a teacher, psychologist, pediatrician, nurse, child care provider or social worker? Then this class is for you! Learn about physical, social, emotional, and intellectual development of children at various ages and stages. This course provides for field experiences, including creating developmentally appropriate learning tasks and activities, interacting with children in a day care environment, and considering the responsibilities of parenthood.

Fee Required: YES

6402 Creative Cooking	½ Family and Consumer Science Credit	One Semester

Prerequisite: None

Description: Have you ever considered a career as a teacher, psychologist, pediatrician, nurse, child care provider or social worker? Then this class is for you! Learn about physical, social, emotional, and intellectual development of children at various ages and stages. This course provides for field experiences, including creating developmentally appropriate learning tasks and activities, interacting with children in a day care environment, and considering the responsibilities of parenthood.

Fee Required: YES

6502 Food for Fitness	½ Family and Consumer Science Credit	One Semester

Prerequisite: None

Description: Learn the significance of making healthy choices for physical, social and mental health. This course offers hands-on experience in preparing nutritious meals, alternative cooking methods and applying the "My Plate" food guide.

Fee Required: YES

6506 Independent Living	½ Family and Consumer Science Credit	One Semester

Prerequisite: None

Description: This course is a simulation of life in the real world. Through a simulation experience you will learn about the realities of living on your own, obtaining a job and researching careers. You will analyze finances and be able to establish a budget, open a checking account and select appropriate housing. This course addresses financial literacy standards

Fee Required: YES

FINE ARTS COURSES - MUSIC

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7512 Concert Choir

Open to all high school students by audition only. Course objectives include a more enriching choral experience through the further development of individual skills and exposure to a wider variety of quality choral literature, with performance being the primary goal. **Prerequisite: Audition**

7412 Mixed Choir

Performs annually at the winter and spring concerts. This choir serves as preparation for those who may wish to audition for Concert Choir.

7503 Music Theory and Harmony

Are you interested in music and how it is constructed? Then Music Theory and Harmony is the class for you. Open to 11th and 12th graders, the course begins with the fundamentals of music and rhythm, developing skills in the writing, reading and critical listening of music. Additional topics will include intervals, keys, scales/modes, chords and finally basic construction of music. The course will also include an ear training component. Course availability based upon staffing.

7401 Symphonic Band

Course objectives include musical skill development as an individual and within the ensemble setting while performing moderately advanced to advanced compositions.

7416 Treble Choir

This course is an intermediate level choir for treble voices. This course will expand upon the skills built in Mixed Choir and focus more heavily on sight-reading, rhythm, solfege, and aural skills, but in a way that is slightly less demanding than Concert Choir. Additionally, the performance repertoire will be of a higher level of difficulty than the repertoire studied in Mixed Choir.

7403 Wind Symphony

This course is for selected instrumentalists who have demonstrated high musical skill potential or achievement. **Prerequisite: Audition**

FINE ARTS COURSES - VISUAL ART

Return to Fine Arts - Visual Art Course Offerings

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7405 Art I

This is an introductory course to gain an overview of materials, techniques, vocabulary and art concepts. Students are evaluated based on studio projects, limited homework, written assignments, tests and participation in classroom activities. **Fee Required**

7404 Art I Honors

This weighted course is designed for those students indicating a more serious interest in art. Students will build their knowledge of different media, skills, concepts and techniques with the goal of demonstrating a greater degree of sophistication in content, personal style, and use of the elements and principles of design in their compositions. Students enrolled in this more rigorous course are required to develop a portfolio of their work, to support the portfolio preparation process required for those planning to go into a creative field of study after graduation. Prerequisite: "A" in 8th grade art,.**Fee Required**

7406 Art II

This course is for students who want to further their talents and skills in both two and three-dimensional media. Projects/homework are more demanding and complex than in Art I. Prerequisite: Art I, **Fee Required**

7502 Art III and 7602 Art IV

These courses are designed for the more serious student interested in pursuing an art related career and for those who truly enjoy the creative process. Studio projects and homework are more demanding and sophisticated than those in Art II. Portfolio preparation occurs for those who are seeking college acceptance and scholarships. Prerequisite: Art II, **Fee Required**

7414 Art Appreciation

This course provides students with the opportunity to explore the main eras of art history.
Students will learn art criticism and aesthetics through the examination of works of art. Students will have the opportunity to engage in using art materials to experience the process of some art making. These experiences will provide students with a greater understanding and appreciation of art and the art making process however, they will not be graded. Students will study controversial art and discuss philosophical ideas of art and those who create art. Students will also have the opportunity to learn about the business end of the art making world, such as auction houses, galleries, restoration, art history, archeology and museums. **Fee Required**

7409 AP Art History

This course explores topics such as the nature of art, its uses, its meanings, art making, and responses to art. Through investigation of diverse artistic traditions of cultures from prehistory to the present, the course fosters in-depth and holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, constructing understanding of individual works and interconnections of art-making processes and products throughout history. **Fee Required**, **Students enrolled in this course are required to take the A.P. Exam in May.**

7407 Ceramics I

This course is designed to introduce students to the basics of handbuilding with clay. Through the creation of various functional and decorative forms, students will also explore a variety of surface treatments and decoration methods. Students are evaluated on studio projects, exercises, written assignments, tests and participation in classroom activities. **Fee Required**

7507 Ceramics II

This course is for students who want to further develop their skill and confidence in working with clay. Students will continue to learn about hand-building while also learning the process of throwing on the potter's wheel and creating a mosaic. Prerequisite Ceramics I: **Fee Required**

513 Digital Art and Design I

This is a semester course that will give each student a complete learning and immersive experience into the digital art and design world. Throughout the semester each student will work on desktop computers and use Adobe digital art software for their artwork and state-of-the art fabrication lab machines and software to generate final visual products. Each student will have the opportunity to work independently and be part of a team to apply creative self-expression, collaboration, critical thinking and problem solving skills through project based learning (PBL). **This is a prerequisite for Digital Art and Design II and is recommended both are taken back to back for a total of 1 credit. Fee Required**

515 Digital Art and Design II

This course builds on the knowledge and skills students gained in Digital Art and Design I. Each student will build on what was learned in part I , and apply that to real-world experiences. Students will continue to use Adobe digital art software and the

fabrication lab machines and software, but in a more practical, skilled application. This will be accomplished through working independently or as part of a team to apply creative self-expression, collaboration, critical thinking and problem-solving skills through project-based learning (PBL). . **Prerequisite: Digital Art and Design I, Fee Required**

2617 Digital Media Productions I

This semester course is geared toward acquiring the vocabulary and building the fundamentals needed to create proficient video/audio productions. In class, will work collaboratively to produce professional looking video/audio. The focus on all production is using the camera to tell a story, the same as you would when writing. This class is geared towards challenging you intellectually and creatively, while being an enjoyable experience at the same time.

2618 Digital Media Productions II

This semester course is geared toward building on the vocabulary and fundamentals that you learned in DMP I. It is the next step in creating and improving your productions. In this class you will work collaboratively to analyze, evaluate, and produce professional looking video/audio. Some videos will be able to be seen on the Willoughby-Eastlake website as well as other media outlets. This class is geared towards challenging you intellectually and creatively, while being an enjoyable experience at the same time.

7408 Graphic Design I

This is an introductory course to gain an overview of graphic design, including design basics, Adobe Photoshop, Adobe Illustrator, and QuarkXPress. Students will develop the necessary skills to create computer-based pieces from start to finished product.**Fee Required**

7408B Graphic Design II

This course builds on the knowledge and skills students gained in Graphic Design I. Students will have the opportunity to apply their knowledge and skills to create magazine ads, billboards, web page layouts, packaging and other projects associated with graphic design and advertising. **Prerequisite: Graphic Design I, Fee Required**

7603 Community Service Through Art I

Course Description This year-long advanced course is for serious artists who want to use their talents to help others. Working collaboratively, students will create high-quality public art for our school and the local community. Because your work will be seen by the public, top-tier artistic talent, high-quality craftsmanship, and a strong work ethic are required.

Fall Semester: You will design and paint 8-foot-tall wooden snowmen for the Vine Street holiday display and create large-scale murals for our building. You'll learn how to work with "clients" by researching what the community wants and designing art that fits a specific location. **Prerequisite: Grade of "A" in Art I and Art II, as well as a Teacher Recommendation**

7604 Community Service Through Art II

Course Description This year-long advanced course is for serious artists who want to use their talents to help others. Working collaboratively, students will create high-quality public art for our school and the local community. Because your work will be seen by the public, top-tier artistic talent, high-quality craftsmanship, and a strong work ethic are required.

Spring Semester: The focus shifts to pottery. You will hand-craft ceramic bowls for the "Empty Bowls" fundraiser, which supports our district's food pantry. The year ends with a student-run charity soup dinner for 250 guests. You will gain hands-on experience in planning a large event, getting donations, and working with community leaders. **Prerequisite: Grade of "A" in Art I and Art II, as well as a Teacher Recommendation**

GENERAL ELECTIVE COURSES

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1110 Academic Decathlon

This course is a national competition that requires students to master seven academic subjects (math, literature, music, art, economics, science, and history), as well as to deliver prepared and impromptu speeches, to undergo an interview, and to write an essay connected to their studies. The Academic Decathlon curriculum changes each year and is centered on a theme. All of the academic areas, except math, are related to the thematic focus. The curriculum forces students to study several subjects in depth and in detail, and will expand reading, writing, math, and public speaking skills. Although the team consists of three "A" students, three "B" students, and three "C" students as determined by GPA, the class is open to all interested students in the building. The course meets for 1 period, all year.

800 ACT/SAT Prep

This computer-centered course prepares juniors and seniors for standardized college entrance exams through test-taking strategies and practice.

1607 Financial Literacy (½ Credit)

This semester course will prepare students to make sound financial decisions. Students will develop skills and knowledge in money management; spending and credit; saving and investing; becoming a critical consumer; financial responsibility and decision making; and risk management and insurance. This semester course fulfills the ½ credit of financial literacy required for graduation.

HEALTH AND PHYSICAL EDUCATION (HPE) COURSES

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Each course is a **¼ credi**t unless otherwise specified

Note: Students must earn ½ credit of Health and ½ Credit of PE before they graduate.

*** A student who participates in interscholastic athletics, marching band or cheerleading for at least two full seasons may substitute a different ½ unit credit class in any subject for the physical education unit.**

8302 Competitive Team Sports I (¼) Credit

This class is for the student who loves to play team sports in a competitive setting. The sports in which students will engage include: Flag Football, Ultimate Frisbee, Soccer, Basketball, Volleyball and Softball.

8303 Competitive Team Sports II (¼) Credit

This class is for the student who loves to play team sports in a competitive setting and wishes to continue engaging in the activities from Competitive Team Sports I.

8401 Health (½) Credit

This health course will provide students with essential knowledge and decision-making skills for a healthy lifestyle. Students will be expected to analyze aspects of emotional, social, and physical health and how they relate to each other. Students will apply different principles of health and wellness to their own lives. In addition to emotional, social, and physical health, other topics of study include substance abuse, safety and injury prevention, environmental health, and consumer health.

8304 Lifelong Wellness I (¼) Credit

This course is for the student who wants an alternative to traditional physical education courses and wants to gain skills they can utilize throughout their life to live a healthy lifestyle. The focus will be on activities that can be utilized throughout a lifetime such as; Walking, Yoga, Flexibility and Balance, and light conditioning.

8305 Lifelong Wellness II (¼) Credit

This course is for the student who wants to continue working on lifetime healthy living skills such; Walking, Yoga, Flexibility and Balance, and light conditioning.

8603 Plyometrics and Conditioning (½) Credit

This course is for students who have satisfied their physical education graduation requirement and want to continue taking physical education as an elective. This course will offer an intense workout for male and female athletes who are dedicated to becoming faster and stronger to improve athletic performance. This course will offer programs for off-season and in season conditioning. Students will strength train 2-3 days per week and work on movement skills the other days. Performance measures will be taken three times during the semester (pre-test, mid-term, and at the conclusion of the course).

8306 Strength and Conditioning I (¼) Credit

This course is for the student who wants to improve their fitness goals through strength and conditioning activities. These activities include: Weightlifting, Cardio and Speed and Agility.

8307 Strength and Conditioning II (¼) Credit

This course is for the student who wants to continue working on their fitness goals through strength and conditioning activities. These activities include: Weightlifting, Cardio and Speed and Agility.

MATHEMATICS COURSES

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3093 Algebra I

This course will extend the mathematics that students learned in the middle grades. Students will develop fluency writing, interpreting, and translating between various forms of linear equations and inequalities, and use these forms to solve problems. Students will explore functions, including interpreting functions graphically, numerically, symbolically, and verbally and develop the ability to translate between representations. Students will be instructed in the use of regression techniques to describe approximate linear relationships between quantities. Students will create and solve equations, inequalities, and systems of equations involving quadratic expressions. Quadratic functions, including the ability to identify graphs and zeros will be explored.

3093A Algebra 1 - A

This course is the first course in a two-year sequence designed to support student mastery of the Ohio Learning Standards for Algebra 1. This course extends middle grades mathematics by emphasizing the development of foundational concepts and prerequisite skills necessary for success in Algebra 1. Instruction focuses on linear relationships through writing, interpreting, and translating among algebraic, graphical, numerical, and verbal representations of expressions, equations, and inequalities. Targeted supports and interventions are used to identify and address gaps in prerequisite understanding while maintaining alignment to Algebra 1 standards, ensuring students build the conceptual fluency required for continued study.

3093B Algebra 1 - B

This course is the second course in the two-year Algebra 1 sequence and builds upon the skills and concepts developed in Algebra 1 – A. Students deepen their understanding of linear and quadratic relationships by creating, solving, and interpreting equations, inequalities, and systems of equations. Instruction emphasizes multiple representations of functions, including graphical, numerical, symbolic, and verbal models, and includes the use of regression techniques to analyze approximate linear relationships. Ongoing attention is given to reinforcing prerequisite skills as needed while supporting student mastery of the full range of Ohio Algebra 1 Learning Standards and readiness for subsequent high school mathematics coursework.

3119 AP Pre-Calculus

AP Precalculus prepares students for other college-level mathematics and science courses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. The course framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science.

3121 AP Calculus AB

AP Calculus AB is equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The Advanced Placement Program curriculum covers topics including concepts and skills of limits, derivatives, definite integrals and the Fundamental Theorem of Calculus. This course teaches students to approach calculus concepts graphically, numerically and analytically. Upon successful performance on the AP exam, university credit can be earned. Prerequisite: Pre-Calculus, Requirements: Graphing Calculator *Students enrolled in this course are required to take the A.P. Exam in May.*

3126 AP Calculus BC

AP Calculus BC is an extension of the differential and integral topics of Calculus AB, and is equivalent to two semesters of college level calculus (Calculus 1 and 2). Topics include concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. This course supports learners in making connections between graphical, numerical and analytical representations. Upon successful performance on the AP exam, university credit can be earned. Requirements: Graphing Calculator Prerequisite: Pre-calculus *Students enrolled in this course are required to take the A.P. Exam in May.*

3125 AP Statistics

This is an introductory, non-calculus based college level course which introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will cover the four themes of exploring data, sampling and experimentation, anticipating patterns and statistical inference. Graphing calculators with statistical capabilities are an integral part of the course. Prerequisite: Algebra II, Requirements: Graphing Calculator. *Students enrolled in this course are required to take the A.P. Exam in May.*

3520 Applied Algebra II

In this course students will investigate and solve relations of functions numerically, analytically, and graphically. Students will explore functions, including interpreting functions graphically, numerically, symbolically, and verbally. Students will develop the ability to translate between representations Students will create and solve equations, inequalities, and systems of equations involving quadratic expressions. Quadratic functions, including the ability to identify graphs and zeros will be explored. Topics include solutions of polynomials, exponential systems of linear and nonlinear equations, matrix solutions, sequences and series and mathematical modeling.

3113 Algebra II

Building on their work with linear and quadratic functions, students will explore the effects of transformations on graphs of diverse functions. They extend their work to include exponential functions and logarithms. Students will learn to perform operations such as addition, subtraction, multiplication, and division of polynomial and rational functions. In addition to extending their understanding of probability, students will identify different ways of collecting data including sample surveys, experiments, and simulations. Students will also extend their understanding of trigonometry to include periodic functions. Recommendation: Graphing Calculator

3101 Honors Algebra II w/Trigonometry

Building on their work with linear and quadratic functions, students will explore the effects of transformations on graphs of diverse functions. They extend their work to include exponential functions and logarithms. Students will learn to perform operations such as addition, subtraction, multiplication, and division of polynomial and rational functions. In addition to extending their understanding of probability, students will identify different ways of collecting data including sample surveys, experiments, and simulations. Students will also extend their understanding of trigonometry to include periodic functions. In comparison to Algebra II, this course provides an opportunity for in-depth study of functions, extended applications of the concepts and synthesis of concepts to describe the world using Algebraic concepts. Recommendation: Graphing Calculator

Algebra 2 Equivalent Courses - A student must complete a course in Algebra 2, Honor Algebra 2 or one of the three Algebra 2 Equivalent Courses below.

3114 Advanced Quantitative Reasoning (Algebra II Equivalent)

Advanced Quantitative Reasoning is a math course in which the application of basic mathematics skills such as algebra are used to analyze and interpret quantitative information to solve real world problems. Critical thinking is a primary objective with an emphasis on interpretation, representation, calculation, analysis/synthesis, assumptions and communication. The students will often work in groups, make presentations and experiment with mathematical models. This class will meet the Algebra 2 credit required by the state and is intended for students who enjoy hands-on collaborative work and are pursuing a pathway that does not require calculus.

3115 Data Science Foundations (Algebra II Equivalent)

Data science is a blend of quantitative reasoning, statistics and computer science. In this course students will gain meaningful insights from data. Students will make predictions and decisions based on data. Students will use reason and critical thinking skills to develop an understanding of data analysis, sampling, correlation/causation, bias and uncertainty, probability, modeling with data, making and evaluating data based arguments, the power of data in society and more.

3116 Discrete Math and Computer Science (Algebra II Equivalent)

Discrete Math and Computer Science will explore a variety of discrete math topics through a mix of hands-on classroom activities, traditional mathematical/logical reasoning and interactive computer science activities designed for students with no prior coding experience. Topics include Computational Thinking, Computer Logic, Game Theory, Counting/Combinatorics, Probability, Connectivity, Iteration and Recursion, and Cryptography. All topics emphasize logical reasoning, proof, and communication with precise mathematical and computer science language.

3124 Financial Algebra

In this course students will investigate and solve relations of functions numerically, analytically, and graphically. Topics include solutions of polynomials, exponential systems of linear and nonlinear equations, matrix solutions, sequences and series and mathematical modeling. Students will learn algebra with financial applications.

3103 Geometry

In this course students will extend their knowledge of rigid motions to establish triangle congruence criteria. Triangle congruence criteria will be utilized as the basis to develop skills of formal proof. In a similar way, students will develop an understanding of similarity through triangles. Students will explore right triangles and apply trigonometric ratios to find missing measures of right triangles. Students' experience with two-dimensional and three-dimensional objects is extended to include informal explanations of circumference, area and volume formulas. Students will use a rectangular coordinate system to verify geometric relationships, including properties of special triangles and quadrilaterals and slopes of parallel and perpendicular lines. Students will develop an understanding of how chords, tangents and arcs are related in circles and extend their work of experimental probability to include conditional and compound events.

3091 Honors Geometry

In this course students will extend their knowledge of rigid motions to establish triangle congruence criteria. Triangle congruence criteria will be utilized as the basis to develop skills of formal proof. Students will explore right triangles and apply trigonometric ratios to find missing measures of right triangles. Students' experience with two-dimensional and three-dimensional objects is

extended to include informal explanations of circumference, area and volume formulas. Students will use a rectangular coordinate system to verify geometric relationships, including properties of special triangles and quadrilaterals and slopes of parallel and perpendicular lines. Students will develop an understanding of how chords, tangents and arcs are related in circles and extend their work of experimental probability to include conditional and compound events. In comparison to Geometry, this course provides an opportunity for in-depth study of geometric relationships, extended applications of the concepts and a synthesis of concepts to describe the world using geometric concepts.

3111 Honors Pre-Calculus

This course builds upon the concepts students learned in Algebra II. Students develop their understanding of complex numbers through operations and representations on the complex plane. Students will extend their understanding of graphical representations to analyze systems of equations and logarithms. Students will strengthen their ability to model and build functions including further development of trigonometric functions. Students will apply probability models to make decisions. Students will be introduced to conic sections. Prerequisite: Algebra II, Recommendation: Graphing Calculator

3122 Introduction to College Math

This is a ½-year statistics and ½-year calculus class. Statistics is taught in the 1st semester. Students will be introduced to various graphical displays of both univariate and bivariate data. They will explore normal distributions and touch upon binomial and geometric distributions. Students will develop skills to accurately gather data through randomization while eliminating bias. Statistics will end with the development of the confidence interval and one variable hypothesis testing. In Calculus, the students will develop and work through limits, both algebraically and graphically. They will discover the various uses/applications of the derivative, setting the groundwork for the algebraic and graphical ideas of integrals.

3123 Pre-Calculus

This course builds upon the concepts students learned in Algebra II. Students develop their understanding of complex numbers through operations and representations on the complex plane. Students will extend their understanding of graphical representations to analyze systems of equations and logarithms. Students will strengthen their ability to model and build functions including further development of trigonometric functions. Students will apply probability models to make decisions. Prerequisite: Algebra II Recommendation: Graphing Calculator

3128 Sports Statistics

This semester course brings a unique approach to the teaching and learning of introductory statistics. By using sports as a theme, students can better understand and appreciate the general topics. From data description through simple linear regression, each topic is discussed and explained via examples from the sports world. Prerequisite: Algebra I

SCIENCE COURSES

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2621 AP Biology

This course is equivalent to a first year college course. The course develops specialized content to extend connections, depth, and detail of biology, including concepts in chemistry of life, cell structure and functioning, cellular energetics, cell communication and cycle, heredity, gene expression and regulation, natural selection and ecology**. Prerequisite:Biology Fee Required**, *Students enrolled in this course are required to take the A.P. Exam in May.*

2631 AP Chemistry

This course is equivalent to a first year college course. This course develops specialized content to extend connections, depth and detail of chemistry, including concepts in inorganic, organic, analytical, physical and biochemistry. **Prerequisite: Chemistry; Fee Required,** *Students enrolled in this course are required to take the A.P. Exam in May.*

2423 AP Environmental Science

This course is designed to be the equivalent of a one-semester, introductory college course in environmental science through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography**. Fee Required**, *Students enrolled in this course are required to take the A.P. Exam in May.*

2641 AP Physics 1

Advanced Placement Physics I is the first course in a two-course sequence that is an algebra-based college physics course which examines the physical laws and principles that govern nature. The general areas that are studied are motion, forces, energy, waves and electricity. The course will take these topics and not only provide information about them but will also show how these topics are relevant for the student's life. Emphasis will be placed on understanding the concepts of physics and then analyzing the concepts mathematically. The problem-solving skills developed in this course are transferable to many areas outside of physics. The course is designed to be useful to students having widely differing backgrounds and career plans. Laboratory work is a vital and essential part of this course. **Fee Required,** *Students enrolled in this course are required to take the A.P. Exam in May.*

2605 AP Physics 2

Advanced Placement Physics II is the second course in the two-course sequence that is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. **Prerequisite: AP Physics I, Fee Required,** *Students enrolled in this course are required to take the A.P. Exam in May.*

2643 Astronomy

This course provides an in-depth study of our solar system, stars and constellations, the structure of the universe, and the dynamic nature of the cosmos. **Fee Required**

2421 Environmental Science

This course incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principals and theories within environmental science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. **Fee Required**

2642 Forensic Science

This course introduces students to forensic science. It is an inquiry-based course that uses many disciplines to analyze physical and biological evidence found at crime scenes. Units of study include: fingerprints, hair, fibers, drug & chemical analysis, trace evidence, blood, DNA, human remains, soil, and document/handwriting analysis. This course builds upon concepts covered in Biology, therefore it is recommended that students taking this course have previously studied biology. Fee Required

2403 Biology

This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Students engage in investigations to understand and explain behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world application. **Fee Required**

2507 Chemistry

This course introduces students to key concepts and theories that provide a foundation for further study in other sciences as well as advanced science disciplines. Chemistry comprises a systematic study of the predictive physical interactions of matter and subsequent events that occur in the natural world. The study of matter through the exploration of classification, its structure and its interactions is how this course is organized. Investigations are used to understand and explain the behavior of matter in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. **Fee Required**

2401 Honors Biology

The course approaches the study of life sciences from the standpoint of molecules and is lab and research oriented. The major units within this course include: ecology, biochemistry, energy transformation, cell structure, cell function, genetics, and anatomy. **Fee Required**

2500 Honors Chemistry

This course meets 7-8 periods a week. The course of study includes: atomic structure, quantum mechanics, molecular geometry, chemical energy, and chemical equilibrium through analysis and interpretation of experimental evidence. **Fee Required**

2645 Honors Human Anatomy and Physiology

This course will deepen students' understanding of the human body. Students will investigate the human body structure and its functions. The course will examine the structure and function of the major body systems including the skeletal, muscular, nervous, endocrine, circulatory, lymphatic, integumentary, digestive, respiratory, urinary, and reproductive systems. **Prerequisite: Biology; Fee Required**

2302 Physical Science

Physical science introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. Physical science comprises the systematic study of the physical world as it relates to fundamental concepts about matter, energy and motion. A unified understanding of phenomena in physical, living, and environmental systems is the culmination of all previously learned concepts related to chemistry, physics, and environmental science, along with historical perspective and mathematical reasoning. This course focuses on project based learning and is aligned with the Portrait of a Graduate competencies.

2602 Physics

This course elaborates on the study of the key concepts of motion, forces and energy as they relate to increasingly complex systems and applications that will provide a foundation for further study in science and scientific literacy. Students engage in investigations to understand and explain motion, forces and energy in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real- world applications. **Fee Required**

2611 Project Lead The Way Engineering Essentials

This course offers a multidisciplinary approach to teaching and learning foundational concepts of engineering practice, providing students opportunities to explore the breadth of engineering career opportunities and experiences and solve engaging and challenging real-world problems. By inspiring and empowering students with an understanding of engineering and career opportunities, PLTW Engineering Essentials broadens participation in engineering education and the engineering profession.

SOCIAL STUDIES COURSES

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World History and Civilizations Graduation Requirements - 1 of the following classes below

1315 World History and Civilizations

This course examines world events from 1600 to the present. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. Students will continue to develop their skills in historical thinking by locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions, analyze the credibility of sources, develop hypotheses, and use evidence to support claims. Students will analyze cause, effect and correlation in historical events, including multiple causation and long-and short-term causal relations. *Requirement for graduating class of 2021 and beyond.

1316 Honors World History and Civilizations

This weighted course fulfills the district's requirement for World History. Although similar to Modern World History, the purpose of this course is to develop greater understanding of the evolutionary nature of the geographical, economic, social, political, cultural, and philosophical processes that form historical reality. Students' understanding is advanced through a combination of factual knowledge and analytical skills and shall be evidenced through various oral and written exercises. *Fulfills requirement for graduating class of 2021 and beyond.

United States (American) History Graduation Requirements - 1 of the following classes below

1402 US History

Students will examine primary and secondary sources and analyze these sources for credibility. Students will gain an understanding of how historians develop theses and use evidence to support or refute positions. Students will also analyze cause, effect, sequence and correlation in historical events, including multiple causation and long- and short-term causal relations. Students are required to take the end of course exam upon the completion of this course.

1403 Honors US History

Students will examine primary and secondary sources and analyze these sources for credibility. Students will gain an understanding of how historians develop theses and use evidence to support or refute positions. Students will also analyze cause, effect, sequence and correlation in historical events, including multiple causation and long- and short-term causal relations. Students are required to take the end of course exam upon the completion of this course. In addition to American History students will study the Federalist vs Anti-Federalists and explore the history between the American Revolution and the Civil War.

1621 AP US History

This course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes. There is an increased focus on early and recent American history. This course expands on the history of the Americas from 1491 to 1607 and from 1980 to the present. Students are required to take the end of course exam upon the completion of this course. **Fee Required,** *Students enrolled in this course are required to take the A.P. Exam in May.*

United States Government and Financial Literacy Graduation Requirements - 1 of the Government options AND Financial Literacy. If 1506 US Government is chosen, we typically schedule 1607 Financial Literacy in the opposite semester.

1506 US Government (½ Credit)

Students will develop the skills necessary for active participation in civic affairs and have opportunities to engage societal problems and participate in opportunities to contribute to the common good, through governmental and nongovernmental channels. This semester-long course fulfills the ½ credit of Government required for graduation. Students are required to take the end of course exam upon the completion of this course.

1623 AP US Government and Politics

This course is designed to enable students to develop a critical perspective of government and politics in the United States. The nature of the American political system, its development over the past two centuries, and how it works today, is examined. This course addresses financial literacy standards. The College Board curriculum will be followed. **Fee Required,** *Students enrolled in this course are required to take the A.P. Exam in May.*

1630 AP European History

This course is the study of European history since 1450 and introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. This knowledge provides the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. This course uses the primary text used in the 1622 European History course, in addition to other supplemental resources, and moves at a comparatively faster pace that is reflective of a college course. **Fee Required,** *Students enrolled in this course are required to take the A.P. Exam in May.*

1504 AP Psychology

This course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. **Fee Required,** *Students enrolled in this course are required to take the A.P. Exam in May.*

1727 Microeconomics

An elective course that examines how individuals, households, and businesses make decisions in a world of limited resources. Students will explore key economic concepts such as scarcity, opportunity cost, supply and demand, market structures, competition, pricing, and the role of incentives. Students will analyze how consumers and producers interact in various types of markets and evaluate how government policies such as taxes, subsidies, price controls, and regulation influence economic outcomes. Emphasis is placed on applying economic reasoning to real-world issues, interpreting data and graphs, and developing skills in critical thinking and decision-making.

1728 Macroeconomics

Macroeconomics is a social studies elective course that focuses on the performance and decision-making of the economy as a whole. Students will study major economic indicators such as gross domestic product (GDP), inflation, unemployment, and economic growth, and examine how these measures are used to evaluate national and global economic conditions. The course explores the roles of fiscal policy, monetary policy, banking systems, and the Federal Reserve in shaping economic stability. Students will also analyze business cycles, international trade, globalization, and the impact of economic policy decisions on individuals and society. Instruction emphasizes the use of data, charts, and current events to develop economic literacy and informed citizenship.

1503 Psychology

This elective is a survey course which includes study in the following areas: psychology as a science, learning and understanding human behavior, patterns of behavior (including motivated and emotional behavior) and mental health and human interaction, attitudes and social influence.

1624 Senior Seminar I Post World War II Era and 1625 Senior Seminar II The Modern Era

These courses will offer seniors a study and interpretation of major events which shaped political thought using primary sources as a text.

1502 Sociology

This elective is designed to survey the science of society by examining the structure, relationship, roles and function of groups. Students will study the history and content of culture, including the major institutions of society (family, religion, and education), the process of socialization, and social classes and stratification in society. Social problems in contemporary America and current events associated with those issues are researched and discussed.

1510 US Military: Past, Present, Future

This course will explore the various roles the United States Military has culturally taken in the past and its actions in the past as defenders of our society. Students will discover the Military's role today, explore what are the possible future roles it may take, and analyze the short and long term impacts on life enlistment into Military Service. **Prerequisite: American History**

Technology - Computer Education COURSES

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901 Advanced Computer Applications
Students will expand on the knowledge and skills gained in Computer Applications. Students will apply their knowledge and skills to word processing, spreadsheets, presentations, and website development.

3900 Computer Applications
In this course students will explore different software applications like word processing, spreadsheets, presentation software, and will gain internet and computer literacy skills.

3908 Media Productions
This course allows students to express their creative ideas through the powers of technology. Students will learn the basics of media production using the media tools of photography, film, video, audio productions, and interactive media. Students will apply these fundamentals by participating in hands-on group projects.

3902 Programming
The student will learn programming design and logic skills while being introduced to the Python programming language**.**

2601 STEM Robotics
This course introduces students to key concepts and theories of robotic application. Robotics integrates science, technology, engineering and math principles with real applications as students design, build and program a robot to compete in a robotics competition. Students collaborate with classmates while using a curriculum designed by Carnegie Mellon University.

2607 STEM Digital Fabrication I
This course introduces students to the fundamentals of digital design and fabrication. Instruction will include techniques which will allow students at any skill level to create and fabricate designs. This course will offer instruction in CAD (Corel Draw) and an introduction to the FAB Lab equipment. Students will focus on design and creation using the vinyl cutters and laser cutters.

2608 STEM Digital Fabrication II
This course will expand on the design principles outlined in the introduction course. Students will build on their knowledge in CAD, design and digital fabrication to complete assignments using multiple processes. Students will continue to develop skills using the vinyl and laser cutters, and be introduced to other equipment such as 3-D printers and CNC machines.**Prerequisite: Digital Fabrication I**

2609 STEM Digital Fabrication III
This course will provide students with a Capstone experience designed to integrate all of the design concepts presented in the previous courses. It is a project based course, in which students will design and create one or more original projects using multiple processes.
Prerequisite: Digital Fabrication II

12001 CyberSecurity 1
This is the first course in the Paradigm Cyber Program. Students do not need previous experience in cybersecurity or computer science. Students will learn about cyber ethics, fundamentals of computing, networking, cryptography, Linux, system administration, cybersecurity threats, risk identification, and much more. Students can expect an engaging learning environment with simulations and authentic cybersecurity applications during class and are expected to participate in cybersecurity competitions throughout the year.

12002 CyberSecurity 2
This is the second course in the Paradigm Cyber program. Cybersecurity 2 is heavily aligned with the Comptia Security+ Certification with the goal of students earning their Security+ certification before graduation. Students can expect more opportunities for real-world learning through labs, access to cyber ranges, industry mentors, job shadowing and presentations by cyber experts. Students will deepen their understanding of cybersecurity through participation in national cybersecurity competitions. Cyber 2 may also include dual enrollment opportunities. Students will need to have completed Cyber 1 to enroll in this course. **Prerequisite: CyberSecurity I**

12003 AP CyberSecurity
AP Cybersecurity is a broad introduction to the field of cybersecurity that aligns closely with a standard first year college introductory cybersecurity course. Students learn about common threats and vulnerabilities, and how those combine to create risk. Students study the ways that individuals and organizations manage risk, and how risk can be mitigated through a defense-in-depth strategy. Students explore specific vulnerabilities, attacks, mitigations, and detection measures across a variety of domains including physical spaces, computer networks, devices, and data and applications. Throughout the course, students consider the impact of cybersecurity on individuals, organizations, governments and societies.

WORLD LANGUAGE COURSES

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4704 AP Spanish

The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. 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) **Fee Required,** *Students enrolled in this course are required to take the A.P.Exam in May.*

4301 French I, 4304 Spanish I

These courses are an introduction to communicating in a world language by means of building basic vocabulary and developing skills of listening, speaking, reading and writing. Classes include an introduction to culture in the various countries where the languages are spoken.

4401 French II, 4404 Spanish II

Vocabulary is expanded and skills in conversation, grammar, reading, writing and listening are further developed. Historical and cultural information about target countries continues.

4501 French III, 4504 Spanish III

These courses include further development of vocabulary and more complex grammar. Higher speaking, listening, reading and writing skills develop through literature, newspaper/magazine/internet articles, presentations and debates.

4601 French IV Honors, 4604 Spanish IV Honors

These courses provide an advanced study and usage of the language with the goal of providing a solid basis for application at the university level and /or the ability to waive some or all of the world language requirements. Students will be exposed to practice University Language Placement Tests. Students will be involved in many projects and oral presentations to improve their language usage and to encourage their ability to self-express in creative, thoughtful and meaningful ways.

4705 Spanish V Experiential Learning

In this course, students will have the option to either complete the course under the Spanish V curriculum or they can take this class as AP Spanish. The topics covered in class will focus on Spanish V ideas. One day a week, the class will have the students who identified taking the course as AP will focus on AP Specific curriculum while students taking the Spanish V aspect of the class will focus on a culminating project for the class. **Fee Required,** *Students enrolled in this course and identifying AP are required to take the A.P.Exam in May.*

CAPSTONE OFFERINGS

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New this year for our **Capstone** experience is scheduling of **Capstones**. Last year, students chose a specific **Capstone** to register for. This year, students will sign up for **Capstone Exploration** and during their discoveries through the **Capstone** Modules and Hubs, they will be able to **Personalize** and pick their specific **Capstone**.

12090 Capstone Exploration

12100 Skilled Trades Capstone (½ credit)
12200 Business and Finance Capstone (½ credit)
12300 STEM and Technical Careers Capstone (½ credit)
12400 Art, Health and Human Services Capstone (½ credit)

LEADERSHIP Capstone

12080 Leadership Capstone - A
12081 Leadership Capstone - B

12082 Performing Arts Capstone

12001 CyberSecurity I
12002 CyberSecurity II
12003 AP CyberSecurity

12025 WE Build 1
12026 WE Build 2

12082 Performing Arts Capstone

This innovative, student-directed theater course empowers students to take full creative and operational ownership of a live theatrical production. Students collaboratively plan, design, and produce performances while using emerging AI tools to support script development, marketing, scheduling, design concepts, budgeting, and problem-solving—mirroring modern industry practices. The course provides hands-on, real-world experience in both front-of-house and back-of-house roles. Front-of-house exploration includes audience services, ticketing systems, ushers, box office operations, and house management, with a strong emphasis on professionalism, communication, leadership, and customer experience. Back-of-house exploration covers stage management, set construction, lighting, sound, costumes, props, and foundational theatrical design, allowing students to rotate through technical and production positions. Students develop transferable skills such as teamwork, project management, creative leadership, technical literacy, and workplace readiness. Students build skills aligned to the district's Portrait of a Graduate, including communication, collaboration, creativity, critical thinking, resilience, and empathy. By the end of the course, students will have built a portfolio of practical experience and contributed to fully realized public performances, preparing them for careers in theater, entertainment, technology, marketing and other collaborative, creative industries.

Leadership Capstones

12080 Leadership Capstone - A

This capstone course challenges students to explore what it truly means to lead with purpose, integrity, and vision. Through the study of influential leaders from history and contemporary society, students will examine diverse leadership styles and the principles that drive effective leadership. Emphasis is placed on self-awareness, ethical decision-making, communication, collaboration, and practical leadership experience. Students will apply their learning through hands-on projects, reflective practice, and leadership in real-world or campus-based contexts. By the end of the course, students will emerge as confident, thoughtful, and capable leaders ready to make a meaningful impact in their communities and future careers. Students will also identify an overarching project that they will see through to fruition in Leadership Capstone - B

12081 Leadership Capstone - B

This capstone is the culminating experience in the leadership development sequence, building directly on the principles of purpose-driven, ethical, and reflective leadership established in Leadership Capstone – A. In this advanced course, students move from exploration to execution as they bring their identified overarching leadership project to fruition. Emphasis is placed on sustained leadership practice, strategic planning, problem-solving, and meaningful community or campus impact. Students will deepen their skills in collaboration, communication, and adaptive decision-making while navigating real-world challenges and opportunities. Through continued reflection, mentorship, and applied leadership experiences, students will emerge with a completed capstone project and a strengthened sense of confidence, responsibility, and readiness to lead beyond the classroom.

12025 WE Build 1
This hands-on, foundational course introduces students to the essential skills and knowledge needed for a career in construction and related trades. The curriculum covers core areas such as basic safety, trade math, and measurement, as well as an introduction to tools and materials used in residential construction. Additionally, students will develop critical employability skills needed for success in the workforce. This course is offered through partnership with the Home Builders Institute (HBI) through the Pre-Apprenticeship Certificate Training (PACT) curriculum.

12026 WE Build 2
The goal of this course is for students to continue to build skills and participate in an internship. Certain criteria must be met in order to qualify for an internship experience and students must have taken WE Build 1. Students will need to provide their own transportation to internship sites. This course is offered through partnership with the Home Builders Institute (HBI) through the Pre-Apprenticeship Certificate Training (PACT) curriculum.

Career Tech - Western Lake County Comprehensive (WLCC)

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Program: Auto Collision	**Career Field:** Transportation Systems **Pathway:** Ground Transportation (T9)
Grade 11	**Grade 12**
Collision Nonstructural Inspection and Repair Subject Code: 177011	**Collision Structural Inspection and Repair** Subject Code: 177010
Collision Painting and Refinishing Subject Code: 177012	**Collision Electrical and Mechanical Systems** Subject Code: 177009

Program: Auto Technology	**Career Field:** Transportation Systems **Pathway:** Ground Transportation (T9)
Grade 11	**Grade 12**
Automotive Brake Systems Subject Code: 177030	**Ground Transportation Electrical/Electronics** Subject Code: 177002
Automotive Steering and Suspension Systems Subject Code: 177031	**Automotive Engine Performance** Subject Code: 177006

Program: Auto Collision
Career Field: Transportation Systems
Pathway: Ground Transportation (T9)

Collision Nonstructural Inspection and Repair
Subject Code: 177011
Students will learn the skills and knowledge of automotive body panel repairs, replacements, and adjustments. Students will analyze, document, prepare estimates and repair nonstructural collision damage. Students will remove corrosion protection, undercoating, sealer, and other protective coatings as necessary to perform repairs. Emphasis will be given to joining and cutting aluminum, steel and other metals. Students will maintain tools and facilities while complying with personal and environmental safety practices.

Collision Painting and Refinishing
Subject Code: 177012
Students will restore and refinish vehicle exterior body and paint finish. Students will inspect and identify substrate, type of finish, surface condition, and film thickness; develop and execute a plan for refinishing using a total product system. Students will inspect, clean, and determine the condition of spray guns and related equipment. Additionally, students will observe safety precautions when using hazardous materials.

Collision Structural Inspection and Repair
Subject Code: 177010
Students will perform automotive collision repair of full and unibody frames and attach non-structural components. Students will apply the skills and knowledge needed to measure and diagnose structural damage, create a parts list, and determine labor costs. Students will remove and replace damaged structural components. Emphasis will be given to joining and cutting aluminum, steel and other metals. Students will maintain tools and facilities while complying with personal and environmental safety practices.

Collision Electrical and Mechanical Systems
Subject Code: 177009
Students will perform inspections and repair electrical and mechanical damage due to collisions. Topics include electrical and wiring harness, suspension, braking and cooling system repairs. Students will service supplemental restraint systems (SRS) and ensure the integrity of the systems.

Auto Technology
Career Field: Transportation Systems
Pathway: Ground Transportation (T9)

Automotive Brake Systems
Subject Code: 177030
Students will perform inspections, troubleshoot malfunctions and service automotive brake systems. Students will identify poor performing hydraulic brake systems and replace malfunctioning components. Additionally, students will disable and enable supplemental restraint systems (SRS) and replace antilock brake systems components.

Automotive Steering and Suspension Systems
Subject Code: 177031
Students will perform inspections, troubleshoot malfunctions and service automotive undercarriage systems. Students will install coil and leaf springs, shock absorbers and struts, and replace wheel bearings. Students will inspect and replace automotive steering components and perform wheel alignments.

Ground Transportation Electrical/Electronics
Subject Code: 177002
Students will diagnose and repair vehicle electrical systems, including chassis electrical, charging, starting and lighting systems. Students will learn the fundamentals of direct current (DC) electronics including series, parallel, and series-parallel circuits. Students will use electronic diagnostic tools, read schematics, and use printed and electronic resources to troubleshoot electrical circuits, test components and replace defective modules.

Automotive Engine Performance
Subject Code: 177006
Students will research vehicle service histories using model specific service bulletins. Students will test and diagnose engine performance in fuel, air induction and exhaust systems using advanced testing procedures. Topics include computerized engine controls including retrieving and recording diagnostic trouble codes using On Board Diagnostics (OBD). Additionally, students will diagnose drivability and emissions problems resulting from malfunctions of interrelated systems.

Automation and Robotics Systems

Career Field: Engineering and Science Technologies
Pathway: Mechatronics (F8)

Semester 1 - Year 1
Engineering Logic
Subject Code: 175017
This course develops foundational knowledge across electrical, mechanical, design, and manufacturing systems. It cultivates critical thinking, problem-solving, and analytical skills essential to engineering practice. Through hands-on activities and theoretical concepts, learners build the mental aptitude needed to tackle engineering challenges, emphasizing safety, quality, and technical precision throughout all processes.

Semester 2 - Year 1
Industrial Robotics
Subject Code: 176025
Learners explore the fundamentals of industrial robots, including their design, operation, and applications in manufacturing and automation. The course covers robot types, kinematics, sensors, actuators, programming, and safety protocols. Emphasis is placed on integrating robots into production systems for tasks such as assembly, welding, material handling, and inspection, alongside troubleshooting and maintenance practices.

Semester 1 - Year 2
Manufacturing Operations
Subject Code: 175003
Learners develop practical knowledge and skills related to manufacturing operations in terms of production planning, quality control, and workplace safety. The course emphasizes understanding various manufacturing methods, equipment operation, and the coordination of resources to efficiently produce goods. Students gain hands-on experience in monitoring production lines, maintaining equipment, and implementing continuous improvement practices.

Semester 2 - Year 2
Automation Technologies
Subject Code: TBD
Students develop skills in automating manufacturing processes through the integration of robotics, programmable logic controllers (PLCs), and control systems. They design, program, and troubleshoot automated work cells using schematics, blueprints, and simulation software. Emphasis is placed on optimizing robotic operations, configuring sensors and actuators, and improving system efficiency. Learners apply automation tools to streamline production, monitor data for continuous improvement, and ensure safe, high-performance manufacturing environments.

Business & Marketing

Career Field: Business and Administrative Services (class of 2027)/Marketing (class of 2028 & beyond)
Pathway: Business & Administrative Services (C4) (class of 2027)/Marketing (S5) (class of 2028 & beyond)

Semester 1 - Year 1
Business Foundations
Subject Code: 141000
Business Foundations is the recommended first course in the Business and Administrative Services, Finance, Logistics and Supply Chain Management and Marketing Career Field pathways. Learners will develop foundational professional skills, in addition to exploring fundamental business activities and concepts. This course also includes introductory learning outcomes from each of the four related pathways.

Semester 2 - Year 1
Marketing Principles
Subject Code: 144000
Marketing Principles is the recommended second course in the Marketing pathway. Learners will develop fundamental skills and knowledge of the marketing functions, including marketing communications, marketing research, pricing, selling and branding. This course also includes learning outcomes in product and service development and social media communications.

Semester 1 - Year 2 (Class of 2028 & beyond)
Digital Marketing and Management
Subject Code: 144015
Digital Marketing and Management explores how businesses identify and apply tools, strategies and processes to communicate

digitally with targeted customers. Learners will develop knowledge and skills in the use of multiple digital marketing strategies, including social media, e-mail, websites, mobile marketing, etc. This course also incorporates learning outcomes in project, process and information management.

Semester 1 - Year 2 (Class of 2027)
Professional and Technical Sales
Subject Code: 144030
Professional and Technical Sales will explore sales processes and techniques used in a business-to-business environment. Learners will develop knowledge and skills to develop and maintain positive business relationships, in addition to negotiating and adjusting prices and sales terms. This course also includes learning outcomes in marketing and business communications, including marketing research, information management and social media communications.

Semester 2 - Year 2
Strategic Entrepreneurship
Subject Code: 141030
Strategic Entrepreneurship explores how individuals use innovation to generate ideas for new products and services, evaluate the feasibility of business ideas and develop a strategy for commercialization. Learners will develop knowledge and skills to select target markets, profile target customers, define a business mission and develop a business plan. This course also includes learning outcomes in financial analysis and evaluation.

Construction Trades
Career Field: Construction Technologies
Pathway: Structural (DD)
***Class of 2027 will finish their program with Excel Tecc

Construction Technology – Core and Sustainable Construction
Subject Code: 178000
Students will learn principles in basic safety (10-hr OSHA), construction math, hand and power tool are and operation, blueprint reading, material handling, communication and employability skills. An emphasis will be placed on safe and green construction practices.

Carpentry and Masonry Technical Skills
Subject Code: 178001
This first course in the pathway will introduce to students the materials, methods, and equipment used in carpentry and masonry. Students will organize a project work sequence by interpreting plans and diagrams within a construction drawing set. They will layout and install basic wall, floor and roof applications. Students will perform introductory concrete applications including formwork, reinforcement, mixing, and finishing. Current advancements in technology, safety, applicable code requirements and correct practices are learned.

Structural Coverings and Finishes
Subject Code: 178004
This course will address applications of interior and exterior finish work. Students will identify material properties and select for appropriate application. Students will install thermal and moisture protection including roofing, siding, fascia and soffits, gutters, and louvers. Students will install drywall; trim-joinery and molding and apply wall, floor and ceiling coverings and finishes. Throughout the course, the safe handling of materials, personal safety, prevention of accidents and the mitigation of hazards are emphasized.

Structural Systems
Subject Code: 178003
Students will learn procedures and techniques required for layout and framing of walls and ceilings, including roughing-in door and window openings, constructing corners and partitions; bracing walls and ceilings; and applying sheathing. Students will learn methods of roof, cold formed steel, and wood stair framing. Students will learn site and personal safety, material properties, design procedures, and code requirements for structural systems.

Cosmetology
Career Field: Human Services
Pathway: Cosmetology (M1)

Microbiology and Infection Control
Subject Code: 174115
Students will learn basic bacteriology, infection control, and salon safety practices. Students will be able to recognize infectious

disorders, and contagious diseases and learn the dispensary requirements, product storage, and requirements of the laws and rules, which regulate the cosmetology industry in Ohio.

Trichology
Subject Code: 174120
Students will learn the anatomy of the head and scalp, structure of the hair and various techniques and procedures for analyzing hair, scalp disorders and diseases. Students will be able to determine hair porosity, elasticity, density, texture and growth patterns as well as conduct chemical tests for treated hair and ability to recommend corrective scalp treatment.

Skin Care Fundamentals and Enhancements
Subject Code: 174150
Students will apply the principles of anatomy, skin analysis, infection control and safety to safe hair removal, skincare treatments, and facial massage. Students will use electrical and manipulative facial treatments including masks, packs, make-up techniques. Students will also learn advanced skin care treatments, targeted massage, and enhancement applications using specialized products and techniques.

Fundamentals of Chemical Services
Subject Code: 174135
Students will apply basic skills, knowledge, and safety practices when giving permanent/chemical waves, curl re-forming, chemical relaxers and hair color techniques to include tinting, highlighting, bleaching, and foiling.

Fire/EMS
Career Field: Law and Public Safety
Pathway: Firefighting and Emergency Medical Services (P6)
***Class of 2027 will finish their program with Excel Tecc

Foundations of Firefighting and Emergency Medical Services
Subject Code: 170342
Fire Fighting and Emergency Medical Services introduces students to the foundational concepts of firefighting safety and emergency medical services. Students will analyze and practice skills outlined in the Ohio Department of Public Safety Fire protection and Ohio Emergency Medical Services rules and regulations in preparation for Firefighter I&II curriculum and EMT licensure.

Medical Terminology
Subject Code: 072150
This course focuses on the applications of the rules for constructing and defining medical terms with an emphasis on building a working medical vocabulary. Topics include using the appropriate abbreviations and symbols for anatomical, physiological and pathological classifications and the associated medical specialties and procedures. Students will decipher medical terms by identifying and using word elements with an emphasis on derivation, meaning, and pronunciation. Further, students will interpret and translate medical records and documents.

Emergency Medical Technician
Subject Code: 170345
Emergency Medical Technicians are first responders who provide basic medical care to sick and injured people. In this course, students will learn the knowledge and skills necessary to provide lifesaving first aid. Students will assess, diagnose, and treat a variety of illnesses and injuries in the process of providing pre-hospital care. Students who successfully complete this course at a chartered institution will be eligible to take the National Registry Exam for Ohio EMT certification.

Firefighter I
Subject Code: 170343
The Firefighter I course prepares students for a career in the fire service. Students learn the history of firefighting, ground operations, fire science, fire suppression, use of protective equipment, rescue equipment, tools and appliances. Students will apply knowledge by training with fire equipment, live fire exercises, and practicing a variety of rescue situations. Students that successfully complete this course at a chartered institution will be eligible to take the Ohio Firefighter I certification test.

Firefighter II
Subject Code: 170344
The Firefighter II course builds on the knowledge and skills learned in Firefighter I. In this course students will apply knowledge and skills to advanced training in fire suppression, fire science, rescue, equipment, tools, appliances, and hazardous materials operations. Students who have completed Firefighter I and successfully complete this course at a chartered institution will be eligible to take the Ohio Firefighter II certification test.

Interactive Media
Career Field: Information Technology
Pathway: Interactive Media (N1)
***Class of 2027 will finish their program with Excel Tecc

Creating & Editing Digital Graphics
Subject Code: 145100
Students will learn to design, develop, and produce interactive media projects, web sites, and social media contexts. Students will demonstrate methods of creating professional quality media using commercial and open-source software.

Video & Sound
Subject Code: 145110
Students will create professional video and audio productions for distribution in traditional and new media channels. Students will plan, produce, edit, and launch media products. Students will develop scripts and storyboards, compose shots and operate cameras, capture sounds using microphone hardware, apply special effect techniques, and edit to achieve the final product. Students will be able to use animation and graphic design for video.

Social Media Communications
Subject Code: 340350
In this course, students will learn concepts and principles used in social media communications. Students will learn data-driven marketing and communications strategies and how to apply them to various forms of social media. Students will discuss social, historical, ethical, and economic dimensions of social media.

Multimedia & Image Management Techniques
Subject Code: 145105
Students will apply principles of image creation, management procedures, and multimedia techniques as they create, revise, optimize, and export graphics for video, print, and web publishing. The course will addressissuesrelated to web-based publishing,social media, and security. Students will utilize current commercial and open-source languages, programs, and applications.

LPN
Career Field: Health Science
Pathway: Allied Health and Nursing (JM)
Requirements: This program is regulated by the Ohio Board of Nursing. To be eligible for program entry, students must earn a Level 5 or higher on the WorkKeys Applied Mathematics and Workplace Documents assessments and a Level 4 or higher on Graphic Literacy. Students are responsible for providing their own transportation to clinical sites. Clinical sites have specific health and background requirements, all of which must be met in order to participate in clinical experiences. Clinical hours may fall outside of the regular school day.

Patient Centered Care
Subject Code: 072050
Students will apply psychomotor nursing skills needed to assist individuals in meeting basic human needs. Students will implement interventions following a nursing assistant plan of care. Students will collect the patient's vital signs including temperature, pulse rate, respiration rate, and blood pressure. Students will perform phlebotomy procedures with emphasis on infection prevention, universal precautions, proper patient identification, specimen acquisition, handling, and processing. Additionally, students will observe patients' physical, mental, and emotional conditions and document any change.

Nutrition and Wellness
Subject Code: 072015
Students will increase their knowledge of comprehensive health and wellness. Students will be able to identify the components of fitness and communicate the relationship between physical fitness, physical performance, injury prevention, and nutritional intake. Students will evaluate an individual's state of nutrition based upon the impact of personal choices and social, scientific, psychological and environmental influences. Further, students will calculate an individual's kilocalorie burn rate and recommend an ideal diet and physical fitness plan.

Patient Centered Care and Diagnostics
Subject Code: 072055
In this course, students establish and implement treatment plans while providing primary nursing care. Topics include pharmacology, phlebotomy, mental health nursing and acute care nursing. Students use diagnostic techniques to develop patient health assessments. Emphasis is placed on the synthesis of information gathered through health history, observation, and the detection of deviations and variations from normal physical characteristics. In addition, students learn the legal and ethical

principles needed to function within the scope of practice.

Lifespan Development and Medical Intervention
Subject Code: 072060
Students gain necessary skills and knowledge to meet the needs of individuals from infancy through the human life cycle in a safe, legal, and ethical manner using the nursing process. Topics include physical, psychological, and cultural variations associated with maturing and aging. Emphasis will be placed on regulatory compliance, patient assessment, patient safety, and medical interventions. Additionally, students use psychomotor nursing skills to assist in day-to-day patient care activities.

Medical Assisting
Career Field: Health Science
Pathway: Allied Health and Nursing (JM)
Requirements: Students are responsible for providing their own transportation to clinical sites. Clinical sites have specific health and background requirements, all of which must be met in order to participate in clinical experiences. Clinical hours may fall outside of the regular school day.

Medical Terminology
Subject Code: 072150
This course focuses on the applications of the rules for constructing and defining medical terms with an emphasis on building a working medical vocabulary. Topics include using the appropriate abbreviations and symbols for anatomical, physiological and pathological classifications and the associated medical specialties and procedures. Students will decipher medical terms by identifying and using word elements with an emphasis on derivation, meaning, and pronunciation. Further, students will interpret and translate medical records and documents.

Patient Centered Care and Diagnostics
Subject Code: 072055
In this course, students establish and implement treatment plans while providing primary nursing care. Topics include pharmacology, phlebotomy, mental health nursing and acute care nursing. Students use diagnostic techniques to develop patient health assessments. Emphasis is placed on the synthesis of information gathered through health history, observation, and the detection of deviations and variations from normal physical characteristics. In addition, students learn the legal and ethical principles needed to function within the scope of practice.

Lifespan Development and Medical Intervention
Subject Code: 072060
Students gain necessary skills and knowledge to meet the needs of individuals from infancy through the human life cycle in a safe, legal, and ethical manner using the nursing process. Topics include physical, psychological, and cultural variations associated with maturing and aging. Emphasis will be placed on regulatory compliance, patient assessment, patient safety, and medical interventions. Additionally, students use psychomotor nursing skills to assist in day-to-day patient care activities.

Medical and Dental Office Technology
Subject Code: 072155
Students will apply fundamental principles of communication, leadership, technology and management as it applies to the medical office setting. Students will demonstrate documentation and record keeping procedures set forth by national accrediting organizations.

Pre-Nursing
Career Field: Health Science
Pathway: Allied Health and Nursing (JM)
Requirements: This program is regulated by the Ohio Department of Health. Students are responsible for providing their own transportation to clinical sites. Clinical sites have specific health and background requirements, all of which must be met in order to participate in clinical experiences. Clinical hours may fall outside of the regular school day.

Medical Terminology
Subject Code: 072150
This course focuses on the applications of the rules for constructing and defining medical terms with an emphasis on building a working medical vocabulary. Topics include using the appropriate abbreviations and symbols for anatomical, physiological and pathological classifications and the associated medical specialties and procedures. Students will decipher medical terms by identifying and using word elements with an emphasis on derivation, meaning, and pronunciation. Further, students will interpret and translate medical records and documents.

Lifespan Development and Medical Intervention

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Patient Centered Care and Diagnostics
Subject Code: 072055
In this course, students establish and implement treatment plans while providing primary nursing care. Topics include pharmacology, phlebotomy, mental health nursing and acute care nursing. Students use diagnostic techniques to develop patient health assessments. Emphasis is placed on the synthesis of information gathered through health history, observation, and the detection of deviations and variations from normal physical characteristics. In addition, students learn the legal and ethical principles needed to function within the scope of practice.

Principles of Allied Health
Subject Code: 072035
Students will apply knowledge and clinical skills necessary to assess, plan, provide, and evaluate care to patients in varied healthcare settings. Students will apply first aid principles and techniques needed for response to choking, cardiopulmonary resuscitation, and other life-threatening emergencies. Emphasis will be placed on regulatory compliance, patient safety, pathophysiology, and medical interventions. Additionally, this course introduces psychomotor skills needed to assist individuals in meeting basic human needs.

Teaching Professions
Career Field: Education and Training
Pathway: Teaching Professions (E1)
***Class of 2027 will finish their program with Excel Tecc

Foundations of Education and Training
Subject Code: 350002
In this first course in the career field, students will examine the goals of education and training as well as environments in which education and training are delivered. They will identify learners' and stakeholders' roles, rights and responsibilities in educational systems; assess legal and ethical issues related to education; and determine careers of interest in education and training. Employability skills and state requirements for becoming an educator will also be addressed.

Child and Adolescent Development
Subject Code: 350035
Students will examine and apply the theoretical foundations of human growth and development to children and adolescents. Additionally, learners will determine children's learning styles; stages of social, emotional, cognitive and physical development; and needed accommodations in educational settings. Throughout the course, family and community engagement, cultural influences on learners and language growth and development will be emphasized.

Curriculum and Instruction for Teaching Professions
Subject Code 350020
Students will develop age-appropriate learning experiences and curriculum to engage children and help them learn. They will determine curricular goals, create lesson plans, and employ grading and assessment strategies to measure targeted learning outcomes. In addition, students will develop online instruction using learning management system platforms.

Classroom Management
Subject Code: 350030
Students will apply developmentally appropriate techniques to advance learners' social and emotional growth. They will create classroom environments to maximize the learning potential of each learner. Additionally, learners will create and enforce classroom rules, establish classroom routines, and model self-discipline for learners. Conflict resolution, positive discipline and behavioral-modification techniques will be emphasized throughout the course.

Welding
Career Field: Manufacturing
Pathway: Metallurgy (R8)

Gas Metal Arc Welding (GMAW)
Subject Code: 176000
Students will use the Gas Metal Arc Welding process (GMAW) to safely join various types of metal. They will cut metals using

oxy-fuel processes and perform multiple types of welds and joints in all positions, up to and including overhead. They will select the appropriate type of electrode wire and shielding gas, and they will adjust welding equipment based on the physical characteristics and metal properties. Students will apply quality control factors to evaluate weld quality.

Shielded Metal Arc Welding (SMAW)
Subject Code: 176001
Students will be able to use the Shielded Metal Arc Welding process (SMAW) to safely join various types of metal. They will perform multiple types of welds and joints in all positions, up to and including overhead. They will select the appropriate type of electrode and adjust welding equipment based on the physical characteristics and properties of the metal. Students will apply quality control factors to evaluate the quality of welds.

Flux Cored Arc Welding (FCAW)
Subject Code: 176002
Students will be able to use the Flux Cored Arc Welding process (FCAW) to safely join various types of metal. They will perform multiple types of welds and joints in all positions up to and including overhead. They will select the appropriate type of cored electrode wire and adjust welding equipment based on the physical characteristics and properties of the metal. Students will apply quality control factors to evaluate the quality of welds.

Gas Tungsten Arc Welding (GTAW)
Subject Code: 176003
Students will use the Gas Tungsten Arc Welding process (GTAW) to safely join various types of metal. They will perform multiple types of welds and joints in all positions, up to and including overhead. They will select the appropriate type of electrode, filler metal and shielding gas. They will be able to adjust welding equipment based on the physical characteristics and properties of the metal. Students will apply quality control factors to evaluate weld quality.

Excel Tecc - Class of 2027 Only

CADD Engineering Design (Mayfield High School)

Architecture Design – Structural and Mechanical/Electrical/Plumbing
Subject Code: 178020
Students will use architecture design principles to organize and arrange structures to create a perspective of a building. Students will use orthographic/pictorial projection, freehand technical sketching and computer-aided drafting (CAD) skills to generate floor and wall plans, elevations, sections, details and schedules. Students will develop sets of structural framing and mechanical working drawings that include plumbing, HVAC and electrical power and lighting plans.

Manufacturing Operations
Subject Code: 175003
Students will learn the production processes applied across manufacturing operations. Students will be able to demonstrate a broad array of technical skills with an emphasis given to quality practices, measurement, maintenance and safety.

Culinary Arts (Beachwood High School)

Restaurant Management
Subject Code: 330120
Students will apply management principles to plan, organize and direct restaurant staff toward goal achievement. They will hire, train, and supervise employees; establish processes to facilitate restaurant operations; and plan and design menus. Students will also forecast and schedule food production, establish food specifications, select vendors, calculate costs, and purchase food and nonfood products. Other topics include food science, nutritional analysis, business law and ethics, economics and marketing.

Hospitality and Tourism Capstone
Subject Code: 330130
The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in the program in a more comprehensive and authentic way. Capstones often include project/problem based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

Digital Arts & Technology (Aurora High School)

Business of Arts & Communication

Subject Code: 340006
From event management to tracking expenses, students learn the business side of visual, media, and performing arts operations. Topics include marketing, branding, producing, promoting, booking, budgeting, and merchandising. Students learn and apply intellectual property rights, licensing, copyright,royalties, liabilities, and contractual agreements. They learn how both profit and non-profit organizations businesses operate.

Video Production
Subject Code: 340145
This course focuses on video production for commercial use. Students will learn techniques to plan and coordinate work with clients to produce projects on a tight timeline. They learn how to read and interpret a script, select and maintain equipment and combine graphics, text, and special effects. Skills attained include pre-production documentation and planning, in-production audio and video recording, and post-production editing and distribution.

Exercise Science & Sports Rehabilitation (Brush High School)

Medical Terminology
Subject Code: 072150
This course focuses on the applications of the rules for constructing and defining medical terms with an emphasis on building a working medical vocabulary. Topics include using the appropriate abbreviations and symbols for anatomical, physiological and pathological classifications and the associated medical specialties and procedures. Students will decipher medical terms by identifying and using word elements with an emphasis on derivation, meaning, and pronunciation. Further, students will interpret and translate medical records and documents.

Fitness Evaluation and Assessment
Subject Code: 072020
Students will complete comprehensive fitness evaluations and develop individualized training programs. Students will administer lab and field tests of cardiovascular endurance, body composition, joint flexibility and muscular strength, power, and endurance. Emphasis is placed on assessing body composition, neuromuscular flexibility, agility, balance, coordination, and proprioception. Additionally, students will identify components of physical fitness and communicate how physical activity impacts health and wellness.

Information Technology & Programming (Mayfield High School)

Web Design
Subject Code: 145010
Students will learn the dynamics of the Web environment while pursuing an in-depth study of both Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS). Web based protocols such as FTP, TCP/IP, and HTTP will be addressed. Students will create a website with tag text elements,special characters, lines, graphics, hypertext links, and graphical tables.

Network Security
Subject Code: 145050
Students will securely install, configure, and troubleshoot network hardware and peripherals. Students will learn networking by exploring the OSI model, network topologies, and cabling. Students will design simple networks, know how to select physical devices, and be able to configure the equipment to optimize security. Knowledge and skills relating to the operation and usage of network protocols will be developed.

Marketing (Beachwood High School)

Business Foundations
Subject Code: 141000
Business Foundations is the recommended first course in the Business and Administrative Services, Finance, Logistics and Supply Chain Management and Marketing Career Field pathways. Learners will develop foundational professional skills, in addition to exploring fundamental business activities and concepts. This course also includes introductory learning outcomes from each of the four related pathways.

Marketing Principles
Subject Code: 144000
Marketing Principles is the recommended second course in the Marketing pathway. Learners will develop fundamental skills and knowledge of the marketing functions, including marketing communications, marketing research, pricing, selling and branding. This course also includes learning outcomes in product and service development and social media communications.

Strategic Entrepreneurship
Subject Code: 141030
Strategic Entrepreneurship explores how individuals use innovation to generate ideas for new products and services, evaluate the feasibility of business ideas and develop a strategy for commercialization. Learners will develop knowledge and skills to select target markets, profile target customers, define a business mission and develop a business plan. This course also includes learning outcomes in financial analysis and evaluation.

Integrated Marketing Communications
Subject Code: 144010
Integrated Marketing Communications explores how businesses create, execute and evaluate strategies and content for advertising, sales promotion and publicity. Learners will develop knowledge and skills in project management, branding and marketing communication creation and evaluation. This course also includes learning outcomes in market research and planning, and business applications for content and communication design.

Medical Technologies (Mayfield High School)

Lifespan Development and Medical Intervention
Subject Code: 072060
Students gain necessary skills and knowledge to meet the needs of individuals from infancy through the human life cycle in a safe, legal, and ethical manner using the nursing process. Topics include physical, psychological, and cultural variations associated with maturing and aging. Emphasis will be placed on regulatory compliance, patient assessment, patient safety, and medical interventions. Additionally, students use psychomotor nursing skills to assist in day-to-day patient care activities.

Medical Terminology
Subject Code: 072150
This course focuses on the applications of the rules for constructing and defining medical terms with an emphasis on building a working medical vocabulary. Topics include using the appropriate abbreviations and symbols for anatomical, physiological and pathological classifications and the associated medical specialties and procedures. Students will decipher medical terms by identifying and using word elements with an emphasis on derivation, meaning, and pronunciation. Further, students will interpret and translate medical records and documents.

Performing Arts Academy (Chagrin Falls High School)

Acting Performance
Subject Code: 340230
Meeting expectations of the casting director and audience is critical to any successful performer. This course focuses on maximizing an actor's physical and emotional expression, vocal intonation, memorization, and imagination to convey stories and feelings. Whether spoken or sung, stylistic identity is reinforced. Other topics include material selection, meeting the physical and emotional demands of a performance,sustaining a character, and self and peer critique.

Stagecraft
Subject Code: 340250