Willoughby-Eastlake City Schools

High School

CEEB CODE
To be used for Standardized Testing and College Applications.

North – 362-022
South – 365-574

COURSE SELECTION GUIDE
2023 – 2024

District Goal: Improve Student Achievement

• *Students First* • *Quality Instruction* • *Time on Task*

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Mr. Ron Iarussi, Interim Asst. Superintendent
Ms. Gina Kevern, Director of Curriculum
Mrs. Heather Dodd, Director of Pupil Services
Mrs. Andrea Tredent, Director of Technology
Mr. Nick Ciarniello, Treasurer

Board of Education
Regular Meetings
2nd Monday of the Month

Krista Bair, Member
Stacy Menser, Member
Aaron Reedy, Member
John Roskos, Member
Jaime Shatsman, Member

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GENERAL INFORMATION

School Day

- A High School day consists of an eight (8) period day with lunch included.
- The Career Academy 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 his/her 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

For the 2023-2024 school year, all students must complete 21.5 units of high school, show competency and show readiness as outlined by the Ohio Department of Education.

Graduating Class of 2024

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, American Government (1/2 Credit) and Financial Literacy (1/2 Credit) (Satisfies the Economics and Financial Literacy requirements)
Science	3 Credits	Must include one unit of Physical Science, one unit of Life Science, and one unit of Advanced Study in one or more of the following Sciences: Chemistry, Physics or other Physical Science, Advanced Biology or other Life Science, and Astronomy
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
Electives	6 Credits	**Elective credits must include one or any combination of: • 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.

GRADUATION REQUIREMENTS 2024 and beyond

Requirement 1- Complete Ohio Course Requirements (see previous page)

Requirement 2 – Show Competency- take and receive a passing score on the Algebra I and English II End of Course Assessments

Students who fail to show competency by earning a passing score on the Algebra I and English II End of Course Assessments will be offered additional support and be required to re-take the assessments at least once. Students who continue to struggle on these End of Course Assessments will be provided with four additional options to show competency for graduation.

Additional Options to show competency for the Graduating Class of 2024 and beyond

Option 1 - Demonstrate Two Career-Focused Activities (One of which must be foundational)

Foundational

- Proficient scores on WebXams
- A 12-point industry credential
- A pre-apprenticeship or acceptance into an approved apprenticeship program

Supporting

- Complete 250 Hours of Work-based learning
- Earn the required score on WorkKeys
- Earn the OhioMeansJobs Readiness Seal

Option 2 - Enlist in the Military

Show evidence that you have signed a contract to enter a branch of the U.S. armed services upon graduation.

Option 3

Complete College Coursework

Earn credit for one college-level math and/ or college-level English course through Ohio's free College Credit Plus program.

Option 4

Earn a remediation free score on the ACT or the SAT.

Requirement 3 - Earn two of the following 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.

At least one of the two must be Ohio-designed:

- OhioMeansJobs Readiness Seal (Ohio-designed)
- Industry-Recognized Credential Seal (Ohio-designed)
- College-Ready Seal (Ohio-designed)
- Military Enlistment Seal (Ohio-designed)

- Citizenship Seal (Ohio-designed)
- Science Seal (Ohio-designed)
- Honors Diploma Seal (Ohio-designed)
- Seal of Biliteracy (Ohio-designed)
- Technology Seal (Ohio-designed)
- Community Service Seal (Locally-designed)
- Fine and Performing Arts Seal (Locally-designed)
- Student Engagement Seal (Locally-designed)

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 3.76 – 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 https://pschool.weschools.org/public/.

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.

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 now 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.

- Student must also meet Ohio Department of Education requirements for graduation.
- Any student meeting all the criteria for early graduation must state his/her 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.

Honors Diploma

The Ohio State Board of Education has established a Diploma with Honors. Students must meet the following criteria:

The student who completes the high school academic curriculum shall meet all but one of the following criteria:

1. Earn at least four units of Mathematics which shall include Algebra I, Algebra II, Geometry and another higher level course or a four-year sequence of courses which contains equivalent content;
2. Earn at least four units of Science including two units of advanced science
3. Earn four units of Social Studies;
4. Earn three units of a World (Foreign) Language (must include no less than two units for which credit is sought), i.e., three units of one language or two units each of two languages;
5. Earn one unit of Fine Arts;
6. Maintain an overall high school grade point average of at least 3.5 on a four-point scale up to the last grading period of the senior year; or
7. Obtain a composite score of 27 on the American College Test's (ACT) assessment (excluding the optional writing test) or a combined score of 1210 on the College Board's SAT verbal and mathematics sections (excluding the required writing section).

Career Technical Honors Diploma

The Ohio State Board of Education has established a Diploma with Honors. Students must meet the following criteria:

A student who completes an intensive Career-Technical education curriculum shall meet all but one of the following criteria:

1. Earn at least four units of Mathematics which shall include Algebra I, Algebra II, Geometry and another higher level course, or a four-year sequence of courses which contains equivalent content;
2. Earn at least four units of Science, including two advanced sciences;
3. Earn four units of Social Studies;
4. Two Units of World Language

5. Earn four units in a Career-Technical education program that leads to an industry-recognized credential, results in an apprenticeship or is part of an articulated career pathway which can lead to post-secondary credit. If the student's program design does not provide for any of these outcomes, then the student must achieve the proficiency benchmark established for the applicable Ohio career-technical competency assessment or the equivalent;
6. Achieve the proficiency benchmark established for the Ohio Career-Technical Competency Assessment (available at http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Honors-Diplomas/Career-Tech-Honors-Diploma or equivalent assessment aligned with state-approved and industry validated technical standards;
7. Maintain an overall high school grade point average of at least 3.5 on a 4.0 scale up to the last grading period of the senior year; or
8. Obtain a composite score of 27 on the American College Testing Service's (ACT) assessment (excluding the optional writing test) or a combined score of 1280 on the College Board's SAT verbal and mathematics sections (excluding the score obtained on the required writing section) or 6 or higher on Reading for Information and 6 or higher on Applied Mathematics on WorkKeys Assessment
9. Complete a Field Experience and document the experience in a portfolio specific to the student's area of focus
10. Develop a comprehensive portfolio of work based on the student's field experience or topic that relates to the student's area of focus.

For more information on the Career Tech Honors diploma requirements go to http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Honors-Diplomas/Career-Tech-Honors-Diploma

STEM Honors Diploma

The Ohio State Board of Education has established a Diploma with Honors. Students must meet the following criteria:

The student who completes the high school academic curriculum shall meet all but one of the following criteria:

1. Earn five units in Math
2. Earn five units in Science
3. Earn three units in Social Studies
4. Earn three units of one world language or no less than two units of each of two world languages studied.
5. Earn one unit in Fine Arts
6. Earn two units with a STEM focus
7. Earn 3.5 on a 4.0 scale
8. Earn 27 or higher on ACT or 1280 or higher on SAT
9. Complete a field experience and document the experience in a portfolio specific to the student's area of focus
10. Develop a comprehensive portfolio of work based on the student's field experience or topic that is related to the student's area of focus

Fine Arts Honors Diploma

The Ohio State Board of Education has established a Diploma with Honors. Students must meet the following criteria:

The student who completes the high school academic curriculum shall all but one of the following criteria:

1. Earn four units in Math
2. Earn three units in Science including one unit of advanced science
3. Earn three units in Social Studies
4. Earn three units of one world language or no less than two units of each of two world languages studied.
5. Earn four units in Fine Arts
6. Earn two additional elective units with a Fine Arts focus
7. Earn 3.5 on a 4.0 scale
8. Earn 27 or higher on ACT or 1280 or higher on SAT
9. Complete a field experience and document the experience in a portfolio specific to the student's area of focus
10. Develop a comprehensive portfolio of work based on the student's field experience or topic that is related to the student's area of focus.

Social Science and Civic Engagement Honors Diploma

The Ohio State Board of Education has established a Diploma with Honors. Students must meet the following criteria:

The student who completes the high school academic curriculum shall meet all but one of the following criteria:

1. Earn four units in Math
2. Earn three units in Science including one unit of advanced science
3. Earn five units in Social Studies
4. Earn three units of one world language or no less than two units of each of two world languages studied.
5. Earn one unit in Fine Art
6. Earn three additional elective units with a social science and/or civics focus
7. Earn 3.5 on a 4.0 scale
8. Earn 27 or higher on ACT or 1280 or higher on SAT
9. Complete a field experience and document the experience in a portfolio specific to the student's area of focus
10. Develop a comprehensive portfolio of work based on the student's field experience or topic that is related to the student's area of focus

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 his/her 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.

National Testing Programs

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

ACT (American College Test) or **SAT** (Scholastic Aptitude Test)

- One college entrance test option (determined in August 2023) will be administered to all students in 11th grade **at no cost to the students**.

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.
- Important to note registration deadline in order to avoid paying a late fee.
- Fee waivers may be available to students based upon financial need.

SAT Waiver information:
https://collegereadiness.collegeboard.org/sat/register/fees/fee-waivers
ACT waiver information:
https://www.act.org/content/act/en/search.html?searchkey=fee%20waiver.

ACT Test Dates	SAT Test Dates
September 9, 2023	October 7, 2023
October 21, 2023	November 4, 2023
December 9, 2023	December 2, 2023
February 10, 2024	March 9, 2024
April 6, 2024	May 4, 2024
June 8, 2024	June 1, 2024

GPA Weighting Scales

AP and Select CCP Courses Scale:
A = 5 points
B = 4 points
C = 3 points
D = 2 points
F = 0 points

Honors Scale:
A = 4.5 points
B = 3.5 points
C = 2.5 points
D = 1.5 points
F = 0 points

General Scale:
A = 4 points
B = 3 points
C = 2 points
D = 1 point
F = 0 points

Advanced Placement

- 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 $96
- 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 in Ohio accept a score of "3" or above in order to receive college credit. Check specific college/university for requirements.
    - An AP Grade Report available on the College Board website in early July. https://apstudent.collegeboard.org/home?navid=gh-aps

Credit Flexibility

Credit Flexibility is designed to broaden the scope of curricular options available to students, increase the depth of study available for a particular subject, and tailor the learning time or conditions needed to complete a high school diploma. Student may earn credits through:

- Completing coursework in the traditional setting
- Testing out or showing mastery of course content
- Pursuing educational options such as online coursework, independent study, internships, service learning, research-based projects, CCP college – high school programs, distance learning, educational travel

Applications for Credit Flexibility options are available within each Guidance Office and via the district website. For more information, please contact the current (or receiving) guidance counselor.

Credit Flex Applications are due to the guidance department as follows;

- Applications for 1st semester proposals are due by March 30th of the previous school year
- Applications for the 2nd semester proposals are due by November 1st of the current school year

College Credit Plus (CCP)

CCP was established as a way 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, 2023
- 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 OR 450 Critical Reading	263
Mathematics	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 s/he 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.

College Credit Plus (CCP) Sample Pathways
Operating in conjunction with Lakeland Community College

Pathway 1

19 semester hours total (this pathway may be available at home high school)
Algebra 2 must be completed at the high school prior to taking MATH

FALL
ENGL 1110 Composition 1 (3 semester hours)
POLS 1300 US National Government (3 semester hours)
MATH 1650 College Algebra (4 semester hours)

SPRING
ENGL 1120 Composition 2 (3 semester hours)
POLS 2100 State and Local Government (3 semester hours)
MATH 1700 Trigonometry (3 semester hours)

Pathway 2

30 semester hours total (this pathway may be available at home high school)
Algebra 2 must be completed at the high school prior to taking MATH

FALL (Junior Year)
ENGL 1110 Composition 1 (3 semester hours)
POLS 1300 US National Government (3 semester hours)
MATH 1650 College Algebra (4 semester hours)

SPRING (Junior Year)
ENGL 1120 Composition 2 (3 semester hours – **Prerequisite: ENGL 1110 or placement test)**
POLS 2100 State and Local Government (3 semester hours)
MATH 1700 Trigonometry (3 semester hours – **Prerequisite: MATH 1650 or placement test)**

FALL (Senior Year)
POLS 2200 Intro to International Relations (2 semester hours)
MATH 2350 Applied Calculus 1 (3 semester hours – **Prerequisite: MATH 1650 or permission)

SPRING (Senior Year)
**POLS 2300 Intro to Comparative Politics (3 semester hours)
MATH 2450 Applied Calculus 2 (3 semester hours – **Prerequisite: MATH 2350)

****These courses are only offered on Lakeland Community College campus.**

Pathway 3

30 semester hours total
Designed for the senior who has completed high school required courses

General Courses
PSYC 1500 Intro to Psychology (3 semester hours)
SOCY 1150 Principles of Sociology (3 semester hours)
HUMX 1100 Intro to Humanities (3 semester hours)
COMM 1000 Effective Public Speaking (3 semester hours)
ECON 1150 Basic Economics (3 semester hours)

+

Math Sequence (select one)
MATH 1650 College Algebra /1700 Trigonometry (7 semester hours total)

MATH 1550 Statistics /1650 College Algebra (8 semester hours total)

+

Science Sequence (select one)
***Non-Science Majors (7 – 8 semester hours total)**
GEOL 1100 Intro to Physical Geology or GEOL 1200 Intro to Historical Geology (4 semester hours each)
PHYS 1500 Astronomy (4 semester hours)
BIOL 1140 Human Biology (3 semester hours)
BIOL 1010 Intro to Bio 1 or BIO 1020 Intro to Bio 2 or BIO 1030 Environmental Issues (3 semester hours each)
CHEM 1100 Elementary Chemistry (4 semester hours)

***Science Majors (8 – 10 semester hours total)**
BIOL 1510 Principles of Bio 1 & 1520 Principles of Bio 2 (8 semester hours total)
CHEM 1500 General Chemistry* & 1600 General Chemistry 2 (10 semester hours total)
PHYS 1610 General Physics 1** & 1620 General Physics 2 (10 semester hours total)

***Prerequisites: HS Chemistry, Math 1650 (can be taken concurrently) or placement test into Math 1700**

****Prerequisite: Math 1650 or permission**

Seniors are encouraged to consult the Lakeland Advisor if they are interested in completing the first year of their Associate's Degree.

Willoughby-Eastlake CCP Offerings w/ Lakeland Community College
Students must meet CCP eligibility requirements (**see page 12**). Courses are offered within each high school and are taught by W-E teachers who maintain adjunct professor status. Students earn **BOTH** high school **AND** college credit (see pages 12-15 for more information about CCP).

CCP Offerings – Fall 2023 (1st Semester)	CCP Offerings – Spring 2024 (2nd Semester)
ACCT 1100 Intro to Financial Accounting	ACCT 1200 Intro to Managerial Accounting
ENGL 1110 English Composition I (A)	ENGL 1120 English Composition II
MATH 1650 College Algebra	MATH 1700 Trigonometry
POLS 1300 US National Government	POLS 2100 State and Local Government
POLS 2200 Introduction to International Relations	
HIST 1250 Western Civilization I: Antiquity - Reformation	HIST 1450 Western Civilization II : Age if Revolution - Present
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
PHYS 1610 General Physics I	PHYS 1620 General Physics II

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 operations 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 - 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**

HIST 1450 World Civilizations I - 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 - 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 - 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 demographical 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 – 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 non-linear 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**

POLS 1300 US National Government - 3 Semester Hours (1st Semester)
This course provides an examination of the formation, structure, processes and fundamental political principles of the United States political system, including the development of the Constitution and the federal system, civil rights and liberties, public opinion and political participation, political parties and interest groups, the role of money and the media in the political system, political campaigns and elections,

Congress and the legislative process, the presidency, and the federal judiciary. It focuses not only on the achievements of the political system but on its shortcomings as well, thus leading to consideration of the political challenges facing the system and suggestions for reform.

POLS 2100 State and Local Government - 3 Semester Hours (2nd Semester)

This course provides a survey of the organization, processes, powers, and responsibilities of state and local government in the United States, with special reference to Ohio. Topics include national-state and state-local relations, state constitutions and municipal charters, political participation, parties and special interests, and the basic institutions of government comprising the legislative, executive, and judicial branches. The course also considers various types of local governments and the problems of metropolitan government. Policy issues examined include education, welfare, and law enforcement policy, as well as budgeting and finance at the state and local levels. Students must conduct a field assignment in their communities.

POLS 2200 Introduction to International Relations - 2 Semester Hours (1st Semester)

This course examines the origin, nature, and development of the post-Cold War international system. Basic concepts include state, nation, power, sovereignty, nationalism, national interest, security, and balance of power. The course examines the major governmental and nongovernmental state and international factors influencing international relations, as well as the primary issues of the modern international system. It also considers strategies for enhancing international security and peace, diplomacy, international trade, nuclear and conventional military power, and international law and government.

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 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 lab. (7 contact hrs: 4 lecture, 3 lab)

COURSE OFFERINGS

BUSINESS COURSES

Grade 9	
	5500 Introduction to Business (½ credit)
Grade 10	
	5500 Introduction to Business (½ credit) 5502 Accounting (1 credit) 5503 Entrepreneurship (½ credit) 5507 Business Lab/School Store (1 credit)
Grades 11-12	
	5500 Introduction to Business (½ credit) 5502 Accounting (1 credit) 5503 Entrepreneurship (½ credit) 5507 Business Lab/School Store (1 credit)

5500 Introduction to Business

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.

5502 Accounting

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.

5503 Entrepreneurship

This course actively involves the student in how to start a business, select and market a product/service, acquire financing, hire a staff, and write a successful business plan. Students will have the opportunity to form a class business and market and sell a product to the school. It will provide hands-on instruction and involve guest speakers from the community.

5507 Business Lab/School Store

Student 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.

COMPUTER COURSES

Grade 9	
	3900 Computer Science I (½ credit) 3901 Computer Science II (½ credit) 3902 Programming (½ credit) 3904 HTML Web/JavaScript (½ credit) 2601 STEM Robotics (½ credit) 2612 PLTW Computer Science Essentials (1 Credit)
Grade 10	
	3900 Computer Science I (½ credit) 3901 Computer Science II (½ credit) 3902 Programming (½ credit) 3903 Multimedia Communications (½ credit) 3904 HTML Web/JavaScript (½ credit) 3908 Media Productions (1 credit) 3999 Student Experience (1 credit) 2601 STEM Robotics (½ credit) 2607 STEM Digital Fabrication I (½ credit) 2608 STEM Digital Fabrication II (½ credit) 2609 STEM Digital Fabrication III (½ credit) 2612 PLTW Computer Science Essentials (1 Credit)
Grades 11-12	
	3900 Computer Science I (½ credit) 3901 Computer Science II (½ credit) 3902 Programming (½ credit) 3903 Multimedia Communications (½ credit) 3904 HTML Web/JavaScript (½ credit) 3907 Computer Aided Design 2D-3D (½ credit) 3908 Media Productions (1 credit) 3999 Student Experience (1 credit) 2601 STEM Robotics (½ credit) 2607 STEM Digital Fabrication I (½ credit) 2608 STEM Digital Fabrication II (½ credit) 2609 STEM Digital Fabrication III (½ credit) 2612 PLTW Computer Science Essentials (1 Credit)

3900 Computer Science I
An introduction to the use of computers, basic programming, and several software applications.

3901 Computer Science II
Students will expand computer application skills in word processing, database, spreadsheets, presentations, and internet use.

3902 Programming
The student will learn program design and logic skills. Current programming languages will be used**.**

3903 Multimedia Communications
The student will explore the concepts of combining two or more forms of media into one project. Examples of applications include animation, presentation software, video software and sound-editing software**.**

3904 HTML and JavaScript
The student will explore the fundamental concepts and structure of web page and site design using HTML codes and tags. JavaScript will be used to enhance pages.

3907 Computer Aided Design 2D – 3D
CAD is a course in which students will express themselves visually and will be able to showcase their creativity. The CAD course will be directed toward the development of industry standard skills.

3908 Media Productions (South)
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.

3999 Student Experience through Media (South)
This course provides students an opportunity to video blog about their school experience. Students will utilize social media and videos as primary communication tools to express their creative ideas through the powers of technology. Students will work with students and staff across the district in a professional capacity as they serve as a quasi-marketing team for the district in order to engage students and the community with what is happening in the district.

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 work with industry professionals, collaborate with classmates, conduct research, engage in the design process,

experience the tooling and fabrication process, adhere to timelines and budgets, document the design process, communicate their design and discuss their work with industry professionals.

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 introduction 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

2612 Project Lead The Way Computer Science Essentials

Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to PLTW Computer Science Principals and PLTW Computer Science A.

ENGLISH COURSES

	College Prep *All 1 Credit	Honors/AP *All 1 Credit	Electives *All ½ Credit unless otherwise stated
Grade 9			
	301 English I	310 English I Honors	504 Creative Writing 511 Drama/Theater 512 Yearbook (1 Credit)

Grade 10			
	401 English II	421 English II Honors	500 Speech/ Oral Interpretation 504 Creative Writing 511 Drama/Theater 512 Yearbook (1 Credit)
Grade 11			
	522 English III	531 English III Honors 532 AP English Language and Composition	500 Speech/ Oral Interpretation 503 Literature as Film 504 Creative Writing 505 Contemporary Literature 511 Drama/Theater 512 Yearbook (1 Credit) 613 Writing for College I 800 ACT/SAT Prep
Grade 12			
	622 English IV	631 English IV Honors 621 AP English Literature and Composition	500 Speech/Oral Interpretation 503 Literature as Film 504 Creative Writing 505 Contemporary Literature 511 Drama/Theater 512 Yearbook (1 Credit) 613 Writing for College I

301 English I

Students will learn and practice techniques for close reading, writing, textual citation, speaking, and analysis of text using a variety of selections, both literary and informational, classic and contemporary, representing diverse cultures and viewpoints. An appreciation for the readings is developed through the study of the fundamentals of composition. Students will write routinely using standard English conventions to produce clear, coherent essays. They will also focus on developing and refining their oral communication, listening, grammar, vocabulary, digital media, research, and thinking skills. Learning targets for English 9-10 as established by Ohio's Learning Standards will drive the instruction of this course. While there are no fees for this course, students will be required to obtain copies of the major literary

works that will be studied during the school year. The students are required to take an end of course exam for English I.

310 English I Honors

In this weighted course, students will learn and practice techniques for close reading, writing, textual citation, speaking, and analysis of text using a variety of selections, both literary and informational, classic and contemporary, representing diverse cultures and viewpoints, as do all English I courses. An appreciation for the readings is developed through the study of the fundamentals of composition. Students will write routinely using standard English conventions to produce clear, coherent essays. They will also focus on developing and refining their oral communication, listening, grammar, vocabulary, digital media, research, and thinking skills. Learning targets for English 9-10 as established by Ohio's Learning Standards will drive the instruction of this course. The honors course, however is both accelerated and enriched with regards to content, thus covering more material with more depth. In addition, students are expected to demonstrate their writing with a greater degree of sophistication in content and style. Students are expected to work independently and to be motivated intrinsically. There are no fees for this course, however, students will be required to obtain copies of the major literary works that will be studied during the school year. The students are required to take an end of course exam for English I.

401 English II

Students will continue to learn and practice techniques for close reading, writing, textual citation, speaking, and analysis of text using a variety of selections, both literary and informational, classic and contemporary, representing diverse cultures and viewpoints. Composition centers on the development of the basic forms of writing, concentrating on developing clearly organized and well- developed multi-paragraph compositions using standard English conventions. They will also continue to focus on developing and refining their oral communication, listening, grammar, vocabulary, digital media, research and thinking skills. Learning targets for English 9-10 as established by Ohio's Learning Standards will drive the instruction for this course. While there are no fees for this course, students will be required to obtain copies of the major literary works that will be studied during the school year. The students are required to take an end of course exam for English II.

421 English II Honors

In this weighted course students will continue to learn and practice techniques for close reading, writing, textual citation, speaking, and analysis of text using a variety of selections, both literary and informational, classic and contemporary, representing diverse cultures and viewpoints. Composition centers on the development of the basic forms of writing, concentrating on developing clearly organized and well- developed multi-paragraph compositions using standard English conventions. They will also continue to focus on developing and refining their oral communication, listening, grammar, vocabulary, digital media, research and thinking skills. Learning targets for English 9-10 as established by Ohio's Learning Standards will drive the instruction for this course. The honors course, however, proceeds at an accelerated pace and is enriched with regards to content, thus covering more material with more depth. Greater independence is expected of the students in their evaluation of literature. In addition, students are expected to demonstrate a greater degree of sophistication in content and style in their writing. There are no fees for this course, however, students will be required to obtain copies of the major literary works that will be studied during the school year. The students are required to take an end of course exam for English II.

500 Speech/Oral Interpretation

Communications is a course that introduces students to various facets of communication skills. This course will include public speaking and media literacy intended for publication. Public address and research skills will be used along with technology and software-based applications for presentation purposes. Students in this course will be expected to use the writing process to produce speech outlines and drafts and to develop technical writing. Students gain confidence and poise through class presentations. Computer-based research skills are honed and the writing process is included.

504 Creative Writing

This course offers students a series of activities and experiences designed to develop the awareness and skills essential in writing creatively. Students will experiment with various forms and will write daily in class. Class activities will include reading professional writing, writing from a variety of prompts, orally presenting personal compositions to the class, and peer editing the compositions of others. Success in this class will depend on the ability to synthesize techniques studied in class with original thinking, while employing the necessary grammar, usage, and punctuation to make a composition clear and precise. Each student will compile a portfolio of their work.

505 Contemporary Literature

This course offers a global approach to literature. Students will explore the literature of the twentieth century to the present. Emphasis will be placed on the research, and critical analysis skills necessary for success in college. Students will also write creatively by developing their own poems, stories and creative essays. Contemporary issues and mature language may be encountered in the reading throughout the course. This course is intended for juniors and seniors who enjoy reading, and would like to study literature published in the twenty-first century.

511 Drama/Theater

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

512 Yearbook

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.

522 English III

Students will study of a wide range of literary and informational texts that focus on the foundational works of American Literature from Native American and colonial times to the contemporary period. Students will study prominent authors of each literary period with emphasis on significant contributions and historical context of works. Students will continue to practice techniques of close reading, writing, textual citation, formal and informal speaking and analytical skills. Students will write routinely using standard English conventions to produce clear, coherent essays. They will also focus on developing their listening, grammar,

vocabulary, digital media and thinking skills. Learning targets for English 11-12 as established by Ohio's Learning Standards will drive the instruction for this course. There are no fees for this course, however, students will be required to obtain copies of the major literary works that will be studied during the school year.

531 English III Honors

In this weighted course, students will analyze a broad range of literary and informational texts that focus on the foundational works of American Literature from Native American and colonial times to the contemporary period. Students will study prominent authors of each literary period with emphasis on significant contributions and historical context of works. Students will continue to practice techniques of close reading, writing, textual citation, formal and informal speaking and analytical skills. Students will write routinely using standard English conventions to produce clear, coherent essays. They will also focus on developing their listening, grammar, vocabulary, digital media and thinking skills. Learning targets for English 11-12 as established by Ohio's Learning Standards will drive the instruction for this course. The honors course, however, is both accelerated and enriched with regards to content, thus covering more material with more depth. In addition, students are expected to demonstrate in their writing a greater degree of sophistication in content and style. Students are expected to work independently and to be motivated intrinsically. There are no fees for this course, however, students will be required to obtain copies of the major literary works that will be studied during the school year.

622 English IV

Students will analyze a broad range of literary and informational text that focus on significant literary works and styles of British Literature. Students will explore the history of the English language, the lives of writers and historical backgrounds of specific literary periods. This class will help students become more aware of the relationship of the individual to humanity. Students will continue to advance techniques for close reading, writing, textual citation, formal and informal speaking and analytical skills. Students will routinely write using standard English conventions to produce clear, coherent essays. They will also focus on developing their listening, grammar, vocabulary, digital media, and thinking skills. Learning targets for English 11-12 as established by Ohio's Learning Standards will drive the instruction for this course. There are no fees for this course, however, students will be required to obtain copies of the major literary works that will be studied during the school year.

631 English IV Honors

In this weighted course, students will analyze a broad range of literary and informational text that focus on significant literary works and styles of British Literature. Students will explore the history of the English language, the lives of writers and historical backgrounds of specific literary periods. This class will help students become more aware of the relationship of the individual to humanity. Students will continue to advance techniques for close reading, writing, textual citation, formal and informal speaking and analytical skills. Students will routinely write using standard English conventions to produce clear, coherent essays. They will also focus on developing their listening, grammar, vocabulary, digital media, and thinking skills. Learning targets for English 11-12 as established by Ohio's Learning Standards will drive the instruction for this course. The honors course, however, is both accelerated and enriched with regards to content, thus covering more material with more

depth. In addition, students are expected to demonstrate in their writing a greater degree of sophistication in content and style. Moreover, students are expected to work independently and to be motivated intrinsically. There are no fees for this course, however, students will be required to obtain copies of the major literary works that will be studied during the school year.

532 AP English Language and Composition

The Advanced Placement English Language and Composition course work models a college composition class. The curriculum concentrates on argumentation: how to analyze the rhetoric employed by writers and speakers, how to construct successful arguments which synthesize accredited sources, and how to compose successful arguments that draw on personal knowledge and experiences. Promoting an awareness of current events and history, particularly American history, the coursework places a greater emphasis on non-fiction than fiction and analyzes fiction for arguments made by the author. **Fee Required**. *Students enrolled in this course are required to take the A.P. Exam in May.*

621 AP English Literature and Composition

The Advanced Placement English Literature and Composition course is a college-level literature and composition class. The curriculum involves both the study and practice of writing and the study of literature. Composition study will encompass the modes of discourse, rhetorical strategies and argumentation, critical analysis of literature, and exposition. The study of literature will include a mix of world, English, and American literature, **Fee Required**. *Students enrolled in this course are required to take the A.P. Exam in May*.

503 Literature as Film

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.

613 Writing for College I

This course offer the college bound student daily opportunities to practice various forms of prose required in college classes. Illustration, narration, description, process, definition, comparison and contrast, classification, cause and effect, and persuasive writing methods are the primary focus. Students will learn to use all of the methods within the framework of the writing process. This course continues the development of good writing techniques and writing across the curriculum. There is a focus on using standard English conventions, which include proper mechanics, usage, grammar, spelling, voice and tone. Brainstorming, drafting personal revisions, editing, peer revision, and publishing are incorporated for each written piece. A review of college applications and the writing of college essays is included in this course.

FAMILY AND CONSUMER SCIENCES COURSES

Grades 9-12	*All ½ credit
	1300 Career Explorations 6402 Creative Cooking 6502 Food for Fitness 6506 Independent Living 6508 Child Development

1300 Career Explorations

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. This course addresses financial literacy standards.

6402 Creative Cooking

Would you like to learn about the ins and outs of a kitchen? Learn the basics of cooking and food preparation techniques to be confident in the kitchen. This course offers hands-on experience in meal planning, preparing, serving and storing foods. **Fee Required**

6502 Food for Fitness

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**

6506 Independent Living

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**

6508 Child Development

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**

FINE ARTS COURSES - MUSIC

Grade 9	
	7401 Symphonic Band (1 credit) 7403 Wind Symphony (1 credit) 7412 Mixed Choir (1 credit) 7416 Treble Choir (1 credit) 7512 Concert Choir (1 credit)
Grades 10-12	
	7401 Symphonic Band (1 credit) 7403 Wind Symphony (1 credit) 7412 Mixed Choir (1 credit) 7416 Treble Choir (1 credit) 7512 Concert Choir (1 credit) 7503 Music Theory & Harmony (1 credit)

7401 Symphonic Band

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

7403 Wind Symphony

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

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.

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**

7503 Music Theory and Harmony

Topics to be discussed include a brief study of western music history, musical notation, major and minor keys, scales, modes, intervals, triads, elementary arranging, and ear

training. Students may repeat this course for a more intense study of music theory, form, and composition.

FINE ARTS COURSES - ART

Grade 9	
	7405 Art I (1 credit) 7414 Art Appreciation (1 credit) 7407 Ceramics I (½ credit) 7507 Ceramics II (½ credit)
Grade 10	
	7405 Art I (1 credit) 7406 Art II (1 credit) 7407 Ceramics I (½ credit) 7507 Ceramics II (½ credit) 7408 Graphic Design I (½ credit) 7408B Graphic Design II (½ credit) 7414 Art Appreciation (1 credit)
Grade 11	
	7405 Art I (1 credit) 7406 Art II (1 credit) 7502 Art III (1 credit) 7407 Ceramics I (½ credit) 7507 Ceramics II (½ credit) 7408 Graphic Design I (½ credit) 7408B Graphic Design II (½ credit) 7414 Art Appreciation (1 credit)
Grade 12	
	7405 Art I (1 credit) 7406 Art II (1 credit) 7502 Art III (1 credit) 7602 Art IV (1 credit) 7407 Ceramics I (½ credit) 7507 Ceramics II (½ credit) 7408 Graphic Design I (½ credit) 7408B Graphic Design II (½ credit) 7414 Art Appreciation (1 credit)

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**

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**

7408 Graphic Design I
This is an introductory course to gain an overview of graphic design, including design basics, Adobe Photo Shop, 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**

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**

7407 Ceramics I
This course is designed to introduce students to the basics of hand-building 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: 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**

GENERAL ELECTIVE COURSES

	Requirements	Electives
Grade 9		
		1110 Academic Decathlon (1 credit) **South Only** 1004 Freshmen Mentee (Rebel Grow) (0.5 Credit) (South)
Grade 10		
		1110 Academic Decathlon (1 credit) **South Only**
Grade 11/12		
		1110 Academic Decathlon (1 credit) **South Only** 800 ACT/SAT Prep 1000 Senior Mentoring Rebel Grow (South)

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. Academic Decathlon's 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. 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.

1000 Rebel Grow Mentoring

At the heart of every freshman mentoring program are the student mentors. Seniors/Juniors apply the previous spring to become 1 of approximately 66 classroom mentors whose responsibilities include taking daily attendance, planning daily classroom

activities, tutoring students with academic needs, facilitating small group discussions, leading mini lessons, and communicating with the Rebel Grow teacher-coordinators.

1004 Rebel Grow Freshmen Mentee Program

This course is a peer mentoring program which provides every incoming freshman an opportunity to gain support from a current Senior. The goal of the program is to ensure our incoming freshmen experience academic success and adjust positively to the high school experience.

HEALTH AND PHYSICAL EDUCATION COURSES

	Course Offerings each course is a ¼ Credit unless otherwise specified	Requirements
Grade 9		
	8302 PE Competitive Team Sports I 8303 PE Competitive Team Sports II 8304 PE Lifelong Wellness I 8305 PE Lifelong Wellness II 8306 PE Strength and Conditioning I 8307 PE Strength and Conditioning II 8603 PE Plyometrics and Conditioning (½ credit)	Students must earn ½ credit of Health and ½ Credit of PE before they graduate.
Grade 10		
	8401 Health (½ credit) 8302 PE Competitive Team Sports I 8303 PE Competitive Team Sports II 8304 PE Lifelong Wellness I 8305 PE Lifelong Wellness II 8306 PE Strength and Conditioning I 8307 PE Strength and Conditioning II 8603 PE Plyometrics and Conditioning (½ credit)	Students must earn ½ credit of Health and ½ Credit of PE before they graduate.
Grade 11/12		
	8401 Health (1/2 Credit) 8302 PE Competitive Team Sports I 8303 PE Competitive Team Sports II 8304 PE Lifelong Wellness I 8305 PE Lifelong Wellness II 8306 PE Strength and Conditioning I 8307 PE Strength and Conditioning II 8603 PE Plyometrics and Conditioning (½ credit)	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
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
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.

8304 Lifelong Wellness I
This course if 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
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.

8306 Strength and Conditioning I
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
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.

8603 Plyometrics and Conditioning
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).

MATH COURSES

	College Prep *All 1 Credit	Honors/AP *All 1 Credit	Electives *All ½ Credit unless otherwise stated
Grade 9	***All 1 Credit**		
	3093 Algebra I 3103 Geometry 3113 Algebra II 3114 Advanced Quantitative Reasoning	3091 Honors Geometry 3111 Honors Pre-Calculus	3128 Sports Statistics (½ credit) 3520 Applied Algebra II
Grade 10			
	3093 Algebra I 3103 Geometry 3113 Algebra II 3114 Advanced Quantitative Reasoning 3123 Pre-Calculus	3101 Honors Algebra II /Trig 3091 Honors Geometry	3128 Sports Statistics 3520 Applied Algebra II
Grades 11-12			
	3093 Algebra I 3103 Geometry 3124 Financial Algebra 3123 Pre-Calculus 3122 Introduction to College Math	3101 Honors Algebra II /Trig 3111 Honors Pre-Calculus 3121 AP Calculus 3125 AP Statistics 3126 AP Calculus BC	3128 Sports Statistics 3520 Applied Algebra II

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.

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 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.

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 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.

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 concept to describe the world using Algebraic concepts. **Recommendation: Graphing Calculator**

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**

3114 Advanced Quantitative Reasoning

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 (numbers and units) to solve real world problems. Students will apply basic math skills to the analysis and interpretation of quantitative information (numbers and units) in real-world contexts to make decisions relevant to daily life. Critical thinking is its primary objective and outcome, emphasizing interpretation, representation, calculation, analysis/synthesis, assumptions and communication. The student will often work in groups, make presentations and experiment with mathematical models. Attendance is very important. 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.

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

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**

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.

3122 Introduction to College Math

This is a ½-year statistics and ½-year calculus class. Statistics is taught in the 1st semester. The student 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.

They 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 limit ideas, both algebraically and graphically. They will discover the various uses/applications of the derivate, setting the groundwork for the algebraic and graphical ideas of integrals.

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.

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

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.

SCIENCE COURSES

	College Prep ***All 1 Credit**	**Honors/AP** ***All 1 Credit**	**Electives** ***All ½ Credit unless otherwise stated**
Grade 9			
	2302 Physical Science 2611 PLTW Engineering Essentials	2401 Honors Biology	2604 STEM Drone 2642 Forensic Science 2643 Astronomy 2610 PLTW Principles of Biomedical Science (1 cr)

Grade 10			
	2403 General Biology 2507 General Chemistry (1 credit)	2401 Honors Biology 2423 AP Environmental 2500 Honors Chemistry 2641 AP Physics 1 2621 AP Biology 2645 Honors Human Anatomy and Physiology	2604 STEM Drone 2642 Forensic Science 2643 Astronomy 2610 PLTW Principles of Biomedical Science (1 cr)
Grade 11			
	2421 Environmental Science 2507 General Chemistry	2423 AP Environmental 2500 Honors Chemistry 2641 AP Physics 1 2605 AP Physics 2 2621 AP Biology 2631 AP Chemistry 2645 Honors Human Anatomy and Physiology	2604 STEM Drone 2642 Forensic Science 2643 Astronomy 2610 PLTW Principles of Biomedical Science (1 cr)
Grade 12		**Honors/AP**	**Electives**
		2423 AP Environmental 2500 Honors Chemistry 2641 AP Physics 1 2605 AP Physics 2 2621 AP Biology 2631 AP Chemistry 2645 Honors Human Anatomy and Physiology	2604 STEM Drone 2642 Forensic Science 2643 Astronomy 2610 PLTW Principles of Biomedical Science (1 cr)

2302 Physical Science

This course 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 study of the physical world as it relates to fundamental concepts about matter, energy and motion. A unified understanding of phenomena in physical, living, Earth and space systems is the culmination of all previously learned concepts related to chemistry, physics and Earth and space science along with historical perspective and mathematical reasoning. **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.

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**

2403 General 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**

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**

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.*

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**

2507 General 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. An understanding of leading theories and how they have informed current knowledge prepares students with higher order cognitive capabilities of evaluation, predication and application. **Fee Required**

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 application 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**

2604 STEM Drone

This course uses the Drone Smartz program and teaches students about drone flying, the legal and safety issues, and the regulations according to the Federal Aviation Agency and the Federal Communications Commission. The three areas of aviation, operations, equipment and personnel, will be taught. The hands-on experiences enable students to learn via a simulator and actual flight time. Students are required to complete research, and flight logs and maintain a personal portfolio to demonstrate training and competence as evidence of completion of this program. Students have the potential to earn their operator's certification.

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**. 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: Honors Chemistry; Fee Required,** *Students enrolled in this course are required to take the A.P. Exam in May.*

2641 AP Physics 1

Advance 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

Advance 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.*

2610 Project Lead The Way Principles of Biomedical Science

In this course students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene, diagnosing and proposing treatment to patients in a family medical practice, tracking down and containing a medical outbreak, stabilizing a patient during an emergency and collaborating with other to design solutions to local and global medical problems.

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**

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**

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**

SOCIAL STUDIES COURSES

	College Prep *1 credit	Honors/AP *1 credit	Electives *½ credit unless otherwise stated
Grade 9			
	1315 World History and Civilizations	1316 Honors World History and Civilizations	
Grade 10			
	1402 US History 1403 Honors US History	1504 AP Psychology 1621 AP US History	1502 Sociology 1503 Psychology 1510 U.S. Military: Past, Present, Future (1 credit) 1727 Microeconomics 1728 Macroeconomics
Grade 11			
	1506 US Government (1/2 Credit) 1607 Financial Literacy (1/2 Credit)	1623 AP US Government and Politics 1504 AP Psychology	1502 Sociology 1503 Psychology 1510 U.S. Military: Past, Present, Future (1 credit) 1727 Microeconomics 1728 Macroeconomics
Grade 12			

		1630 AP European History 1504 AP Psychology	1502 Sociology 1503 Psychology 1510 U.S. Military: Past, Present, Future (1 credit) 1624 Senior Seminar Post WWII 1625 Senior Seminar Modern Era 1727 Microeconomics 1728 Macroeconomics

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. Student 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.

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

1506 US Government

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 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.

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.

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.

1504 AP Psychology

The AP Psychology 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.*

1510 U.S. 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**

1607 Financial Literacy

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.

1621 AP US History

The AP US History 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, such as identity, peopling, and America in the world. In line with college and university US history survey courses' increased focus on early and recent American history and decreased emphasis on other areas, the AP US History course expands on the history of the Americas from 1491 to 1607 and from 1980 to the present. It also allows teachers flexibility across nine different periods of US history to teach topics of their choice in depth. 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.*

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.*

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.

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.*

1727 Microeconomics and 1728 Macroeconomics

These courses will be theory based. Students will understand economic graphs, ratios, and laws from a microeconomic and macroeconomic perspective. These courses address financial literacy standards.

WORLD LANGUAGE COURSES

Grades 9	*All 1 credit
	4301 French I 4401 French II 4304 Spanish I 4404 Spanish II
Grade 10	*All 1 credit
	4301 French I 4401 French II 4501 French III 4304 Spanish I 4404 Spanish II 4504 Spanish III
Grade 11	*All 1 credit
	4301 French I 4401 French II 4501 French III 4304 Spanish I 4404 Spanish II 4504 Spanish III 4604 Spanish IV Honors
Grade 12	*All 1 credit
	4301 French I 4401 French II 4501 French III 4601 French IV Honors 4701 French V Honors 4304 Spanish I 4404 Spanish II 4504 Spanish III 4604 Spanish IV Honors 4704 AP Spanish

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 waiver 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.

4701 French V Honors

Honors will follow the College Board guidelines for an AP-level course. Written and oral proficiency will be the main objective gained from:

1. Formal/informal speech excerpts from several target language speaking countries;
2. Vocabulary, idiomatic expressions, syntactical definition from media, newspapers, and the internet;
3. Composition of expository paragraphs and essays;
4. Verbal expression emphasizing fluency and comprehension

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.*

CAREER-TECHNICAL EDUCATION PROGRAMS

Excel TECC is a career technical consortium serving the ten school districts of Aurora, Beachwood, Chagrin Falls, Mayfield, Orange, Richmond Heights, Solon, South Euclid/Lyndhurst, West Geauga, and Willoughby-Eastlake offering 24 unique programs. The objective of Career-Technical education is to prepare students to enter a two- or four-year college, a two-year technical school or the career of their choosing. Excel TECC provides programs located throughout our districts as well as the Mayfield Innovation Center, Gates Mills Environmental Education Center, Cuyahoga Community College, Cleveland Botanical Gardens, Northern Career Institute (NCI) Eastlake and Northern Career Institute (NCI) Willoughby. Students in Excel TECC programs are eligible to receive college credit upon successful completion of their program according to Tech Prep standards and may receive anywhere from one to twenty-nine college credits. Excel TECC students may also participate in CCP programs. Students interested in participating in CCP while in Excel TECC should contact their guidance counselor for more information and be sure to follow all policies and procedures regarding CCP.

Some programs require students to travel away from their home school and spend a portion of the day at the program site. If the student spends a partial day attending the program, students will return to their home school for academic subjects. When considering Ohio Tech Prep options, it is important to know that:

- Transportation is provided
- Students graduate from their home high school
- Students can participate in home high school extra-curricular activities
- Most programs are two-years, beginning in the junior year
- An application process is required
- Articulation and college credit may be available to successful completers

Application to Excel TECC programs is an on-line process beginning in December. Students choose up to two programs and parents check a “sign-off” box on the application. Application information will be available through high school counselors. Students will receive an interview for any program they have applied to.

By program start date students must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in Mathematics and English (except intervention programs).

Once enrolled in a two-year tech prep program, **the junior will be expected to remain in that program for the two years.**

Fee and equipment charges are required for all tech prep programs. Students will be given a list of these charges by their instructors at the beginning of the course. Excel TECC offers the following college tech prep programs:

OHIO COLLEGE TECH PREP PROGRAMS

Career-Technical Programs	Location
9637 Pre-Nursing 1	NCI - Eastlake
9636 Pre-Nursing 2	NCI - Eastlake
9572 Agriculture Career Exploration	Gates Mills Environmental Education Center
9512 Auto Collision 1	NCI - Willoughby
9612 Auto Collision 2	NCI - Willoughby
9427 Auto Services 1	NCI - Willoughby
9428 Auto Services 2	NCI - Willoughby
9306 Business Academy 1	NCI - Willoughby
9307 Business Academy 2	NCI - Willoughby
9710 CADD Engineering Technology 1	Mayfield Innovation Center
9715 CADD Engineering Technology 2	Mayfield Innovation Center
9575 Career Based Intervention	Gates Mills Environmental Education Center
9573 Cleveland Botanical Garden & Holden Arboretum	Cleveland Botanical Garden & Holden Arboretum
9542 Construction Trades 1	Mayfield High School
9543 Construction Trades 2	Mayfield High School
9518 Cosmetology 1	NCI - Willoughby
9618 Cosmetology 2	NCI - Willoughby
9545 Culinary Arts 1	Beachwood High School
9645 Culinary Arts 2	Beachwood High School
9563 Digital Arts and Technology 1	Aurora High School
9564 Digital Arts and Technology 2	Aurora High School
9565 Fire/EMS Training Academy 1	Mayfield High School
9566 Fire/EMS Training Academy 2	Cuyahoga Community College
9574 Floriculture and Gardening Operations	Gates Mills Environmental Education Center
9711 Information Technology and Programming 1	Mayfield High School
9713 Information Technology and Programming 2	Mayfield High School
9516 Interactive Media 1	Mayfield High School

9616 Interactive Media 2	Mayfield High School
Career-Technical Programs	**Location**
9546 Landscape and Turf Operations 1	Gates Mills Environmental Education Center
9547 Landscape and Turf Operations 2	Gates Mills Environmental Education Center
9634 Licensed Practical Nursing 1	NCI - Eastlake
9635 Licensed Practical Nursing 2	NCI - Eastlake
9520 Marketing Communications (Grade 12 Only)	Beachwood High School
9632 Medical Assisting 1	NCI - Eastlake
9633 Medical Assisting 2	NCI - Eastlake
9567 Medical Technologies 1	Mayfield High School
9568 Medical Technologies 2	Mayfield High School
9570 Performing Arts Academy 1	Chagrin Falls High School
9571 Performing Arts Academy 2	Chagrin Falls High School
9595 Studio Art and Design 1	Orange High School
9695 Studio Art and Design 2	Orange High School
9540 Teacher Education and Children's Health 1 (TEACH 1)	Beachwood High School
9672 Teacher Education and Children's Health 2 (TEACH 2)	Beachwood High School
9527 Welding 1	NCI - Willoughby
9627 Welding 2	NCI- Willoughby

Pre-Nursing (Nursing Assistant)

Pre-Nursing I & II (Northern Career Institute-Eastlake Campus)

Pre-Nursing I Principles of Allied Health & Patient Centered Care and Diagnostics

Pre-Nursing II Medical Terminology & Pharmacology

ALL COURSES ARE FULL YEAR

Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.

Clinical Requirements: During the junior and senior years, students attend clinical sites and will need to provide their own transportation to and from the sites. Students must pass a BCI background check, negative drug screen and submit evidence of other health screening requirements, which are required by the clinical sites. Students must also successfully pass CPR (training provided during the course) prior to attending clinicals.

Recommended for: College Bound/Technical Education 3 credits each year 4 Cuyahoga Community College 6 credits Lakeland Community College 10 credits through University of Akron 3 CT2 credits Certifications Available: State Tested Nursing Assistant (STNA) & CPR; in process for program approval through Ohio Board of Nursing for Medication Aide Certification (MA-C) Career: H, P This program is designed to provide the basic healthcare skills necessary for an entry-level position in health care. Upon successful competition of the program and passage of certification exams, students can begin a career as a State Tested Nursing Assistant (STNA). Students will learn to assist patients with daily living and fundamental tasks, assist in a health care setting, and prepare sterile environments.
Certifications Available: State Tested Nursing Assistant (STNA), CPR, and Medication Aide (pending Ohio Board of Nursing program approval).

This program is designed to provide the basic health-care skills necessary for an entry level position in health care. Upon completion of the program and passage of certification exams students can begin a career as a State Tested Nursing Assistant (STNA) and/or Medication Aide. Students will learn to assist patients with daily living and fundamental tasks, assist in a health care setting, and prepare sterile environments.

Auto Collision

9512 Auto Collision 1

Consists of 9512a: Collision Nonstructural Inspection and Repair and 9512b: Collision Painting and Refinishing

9612 Auto Collision 2

Consists of 9612a: Collision Structural Inspection and Repair and 9612b: Collision Electrical and Mechanical **Location: NCI, Willoughby**

Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school. The Auto Collision program is designed to teach students the complete cycle of repairing automobiles and other vehicles damaged from normal "wear and tear" or from accidents and collisions. The knowledge and skills covered include shop safety, use of hand and power tools, rust repair, sheet metal repair, body panel replacement, fiberglass repair, unibody and frame repair, custom fabrication, custom painting, MIG welding, detailing and customer service. ASE and NATEF certifications are available for qualified students.

Job opportunities for those completing this program include: body repair shops, auto dealerships, wholesale or retail parts and paint sales, frame shops, front end shops, custom shops, auto recycler, shop foreperson and major claims insurance adjuster. The Ohio Technical College offers advance placement in Auto Collision repair and Refinishing Technologies. College credit is also available through Cuyahoga Community College. In addition to classroom training, senior-level students who meet the established requirements may be permitted to work at an Auto Collision related job during the second semester of their senior year.

Auto Services

9427 Auto Services 1

Consists of 9427a: Ground Transportation Maintenance, 9427b: Automotive Braking, Suspension, and Steering Systems

9428 Auto Services 2

Consists of 9428a: Ground Transportation Electrical/Electronics and 9428b: Automotive Engine Performance **Location: NCI, Willoughby**

Prerequisite: Interview conducted by the instructor. By the program start date student must have complete coursework required for junior status at their home school.

The Auto Services program is a "hands on" learning environment, and experience is gained by performing many aspects of customer service. Students in the 1st year of the Auto Services program will be taught to use a computerized 4-wheel alignment machine and computerized wheel balancer and gain experience with tire pressure monitoring systems. Students will also have the opportunity to receive the SP2 safety certificate and The Valvoline Motor Oil Basics Certificate. Students will remove and replace various steering and suspension components, brakes and exhaust systems and will use MIG welding and Oxy fuel torches.

Second year students will use a variety of advanced computerized scan tools from SnapOn and Bosch to diagnose and repair drive train, emission, electrical issues such as AntiLock Brake systems and check-engine lights. Students will be introduced to drive train, transmission and engine repair. Students will also be introduced to the maintenance and repair of sports and recreational vehicles such as ATVs and motorcycles.

Business Academy

9306 Business Academy 1

Consists of 9306a: Business Foundations and 9306b: Management Principles

9307 Business Academy 2

Consists of 9307a: Strategic Entrepreneurship and 9307b: Marketing Principles

Location: NCI, Willoughby

Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.

Articulated College Credit: A maximum of 14 college credits are available through Cuyahoga Community College.

The Business Academy is a dynamic, comprehensive program which will introduce students to the exciting professional world of Business. Students will explore several diverse career areas including Entrepreneurship, Marketing, Commerce, Management, Personal Finance, Project Management, International Business, Business Law, Finance, Operations and Management. The objectives of the Business Academy are to prepare students for transition to college, technical school or employment and to connect,

collaborate and compete in a global economy. An emphasis on communication, critical thinking, strong work ethic, goal setting, productivity, leadership and teamwork will provide students with a solid foundation for success. Students will have an opportunity to participate in DECA, a Career Technical Student Organization. Students will be encouraged to participate in an Internship experience during their senior year. Course content will include creating a viable Business Plan, Personal Financial Literacy, Marketing Ethics, Finance, Social Responsibility, developing Business Relationships, Leadership, Customer Relations, and Professional Development. The latest technology will be fully integrated to facilitate and foster collaboration and teamwork in a professional environment.

CADD Engineering Technology
9710 CADD Engineering Tech 1
9715 CADD Engineering Tech 2
(Computer-Aided Design/Drafting)
Location: Mayfield Innovation Center
Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.

High school students interested in any engineering or Architectural field, with strong mathematics and science skills, an interest in how things are made and work and an interest in design and product invention are ideal candidates for the CADD Engineering Technology course.

Students who complete the program have the opportunity to earn college credit.

CADD I, the first year of a two-year program located at Mayfield Innovation Center meets daily for lab and lecture activities. The program gives high school juniors interested in Science, Technology, Engineering, and Mathematics (STEM) careers a head start on mastering core concepts and techniques critical to success in these areas. CASS, a College Tech Prep program, stresses academic/scholastic achievement, problem-based technical skill development, and work ethics principles critical to success beyond high school. Foundational knowledge such as engineering vocabulary, principles, practices, and techniques form the basis for interactive daily lessons. Competencies include mechanical, manufacturing, electronic and fluid topics such as 2D and 3D design, assembly drawings, product simulation, stress analysis, computer numerical control, rapid prototyping/3D printing, electricity and manufacturing operations. Students use cutting-edge software and tools in daily class activities and competitions for key exposure to engineering fields for the future. Specific software program selections may vary, but will include AutoCAD, Solidworks and Revit applications, as well as applications to support Fabrication Lab equipment. Students may also have the opportunity to intern with outside businesses.

CADD II, a continuation of the CADD I program, builds on previously learned concepts and principles. Competencies focus on Architectural design, including site/foundation planning, plan development and electrical, mechanical and structural concepts. Later in the year, emphasis is placed on developing specialization(s) within Engineering or Architectural areas of interest. The instructor will assume more of a facilitating role working one on one with each student. Students will be involved in collaborative and independent learning activities based on individual interest and competitions. Students may also have the opportunity to intern with outside businesses. New concepts and techniques will be exposed based on student interest, pace of CADD I, and outside involvement and/or need(s) of corporations, colleges, and the community.

Construction Trades
9542 Construction Trades I
9543 Construction Trades II
Location: Mayfield High School
Students who complete the program have the opportunity to earn college credit.
Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.

The Construction Trades program will prepare students to enter the workforce or to continue education at the post-secondary level. Students will learn basic skills in construction management, safety and in the following trade areas: house framing, masonry, gutters, siding, roofing, plumbing, electrical, painting, carpentry, deck building, dry wall, floor coverings, wall papering and simple home repairs by building homes in the classroom. Students will also experience onsite work learning, how to estimate jobs along with reading blueprints. Students will get the chance to get real life job experience by providing home improvements in the community. In the second year of Construction Trades students will have the opportunity to maintain a construction related job during the day. Students would work a minimum of 15 hours per week, and must provide their own transportation. Students will be required to take an end of course exam.

Cosmetology
9518 Cosmetology 1
9618 Cosmetology 2
Location: NCI, Willoughby
Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school.

The Cosmetology two-year program is designed to introduce students to fundamental training and experiences needed for successful Ohio State Board of Cosmetology licensing. The knowledge and skills include sanitation procedures, anatomy and physiology, basic chemistry, business management, hair care procedures, skin care, nail care, salon safety

procedures, English composition,-a 120-hour salon internship and professional ethics. Students will practice on mannequins. Upon successful testing, the students will practice on customers in a salon setting at the school.
Recommendations: Good disciplinary and attendance records.
Students who complete the program have the opportunity to earn college credit.
Certifications Available: Upon successful completion of the two-year program and the accumulation of 1500 hours, students are eligible to take the State Board of Cosmetology Examination for a cosmetology license.

Culinary Arts
9545 Culinary Arts 1
9645 Culinary Arts 2
Location: Beachwood High School
Career Technical Credit Transfer Program (CT2)
Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.
Certifications Available: ProStart
Culinary Arts I: The purpose of the Culinary Arts I program is to offer on-site training in our public restaurant to high school juniors showing interest and aptitude for the food service industry. The first year of this two-year sequence consists of a supervised in school restaurant experience and related instruction. Using the nationally recognized ProStart curriculum, students will develop basic skills in food preparation, proper use and care of materials and equipment, compliance with state and local sanitary codes, organizational structure, job descriptions, planning, production, food ornamentation, catering and dining service. Culinary Arts I also focuses on Serve Safe Training and Certification. Successful completion of this training may be applied toward college requirements. This certification program is an industry standard. The Culinary Arts I Program meets for 3 ¾ hours daily (10:00 a.m. – 1:45 p.m.) Students drive or take a bus directly to Beachwood after completing required classes at their home schools in the morning.

Culinary Arts II: This program meets for 1-1/2 hours daily (7:45 a.m.-9:15 a.m.) Students drive or take a bus directly to Beachwood in the morning and return to their home school for the remainder of the school day. The internship component allows the students to work in the food industry after school and weekends a minimum of 12.5 hours per week to receive credit and earnings. Students must provide their own transportation. The Culinary Arts II ProStart curriculum is endorsed by the National Restaurant Association Educational Foundation and provides each student earning a certificate of achievement with articulated college credit. ProStart teaches culinary mathematics, restaurant business management and marketing techniques and industry career information. Topics such as: employability skills, menu planning and design, cost extension/markup, restaurant design and equipment analysis are also addressed.

Digital Arts and Technology

9563 Digital Arts and Technology 1

9564 Digital Arts and Technology 2

Location: Aurora High School

Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits earned in English and Mathematics.
3 credits each year.
Be sure to read all requirements before committing to this program.

The Digital Arts and Technology program is geared towards the students who are interested in digital photography, videography, audio engineering, cinematography, graphic design and digital media. Students will receive training on how to market the aforementioned skills and advance their careers or post-secondary education. Basic photography and camera skills are taught using our array of DSLR cameras, studio lighting, strobes, and software such as Adobe Lightroom and Photoshop. The videography/cinematography component of the program involves music videos, short films, documentaries, presentations and special effects. Students utilize high-end DSLR and cinema cameras and software to professionally edit video. A third tier of Digital Arts and Technology is audio engineering. We use industry standard audio recording and mixing software and Avid Pro Tools. Students will learn the basics of audio by means of recording techniques, microphone placement, and mixing. First year students meet every day in the morning where all aspects are taught to a basic level. Students will be encouraged to gravitate towards their desired area of specialization. Throughout the two years, students will learn 21st century skills in digital arts, professional networking, and technology. Students will create their own online portfolios that they will take with them into the job market. Most importantly, everything is taught from a business standpoint so these skills can be utilized in the business world. Senior year for three days a week, students are provided with the opportunity to obtain and maintain an internship, throughout the entire school year. Students are able to work for, and alongside professionals in the related field. The internship opportunity will provide unparalleled real life experience, help develop respect and understanding for the field and provide a foundation for professional network.

Fire/EMS Training Academy

9565 Fire/EMS Training Academy 1

9566 Fire/EMS Training Academy 2

Partnered with Cuyahoga Community College
22 semester credits available through CT2
Location: EMT Basic (Tri-C East Campus); Firefighting Level 1 and 2 (Tri-C West Campus)

Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics. **To enter the EMT/Fire Academy all students are required to have a physical on file by the start of their junior year**. Be sure to read all requirements before committing to this program.
Recommendations: Good discipline record, good study habits
Recommended for: College Bound/Technical Education
3 credits each year
Students who complete the program have the opportunity to earn college credit.
Certifications Available: NREMT, State of Ohio Professional Firefighter I & II or APCO Dispatch.
Would you rather fight fires and cut up cars, or push papers? Do you prefer working in a fast paced environment or sitting behind a desk? Do you have passion, discipline, drive, courage, self-motivation, and most importantly, the concern for the well-being of others and the desire to give back to the community? If you have what it takes to become a Firefighter and EMT and you are in good physical condition, look no further!

The Fire/EMS Training Academy is partnered with Cuyahoga Community College and is a two-year commitment. Students have the potential (provided you meet all requirements of the program) to take the National Registry Emergency Medical Technician (NREMT) and State of Ohio Professional Firefighter I & II Exam or APCO Dispatch certifications. Upon completion, students will be immediately employable after graduation.

The first year students learn the foundations of the Firefighting and EMS field, featuring a wide variety of practical learning experiences and related academic classes. Students will be exposed to and become proficient in foundational skills necessary in the Fire and EMS career, including: communications, leadership and teamwork, problem solving skills, safety and wellness, ethical and legal responsibilities, employability skills, CPR/First Aid Training and the ability to assess and provide treatment to patients.

The second year, students will spend the entire year at Tri C Western Campus at the Public Safety Training Building. First semester students will be enrolled in a college level EMT class and the second in either the Fire Academy or Communication/Dispatch class. <u>It should be stressed that the EMT and Firefighting programs are at a college level and students must achieve and maintain an 80% grade average and meet the attendance requirements in order to be eligible to sit for the NREMT and Firefighting examination.</u>

<u>Information Technology and Programming</u>
9711 Information Technology and Programming 1
9713 Information Technology and Programming 2
Location: Mayfield High School
Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits earned in English and Mathematics.

Recommendations: Good attendance and disciplinary record **Recommended for:** College bound students pursuing high tech careers.
3 credits each year

Students who complete the program have the opportunity to earn college credit.
Information Technology and Programming (ITP) is highly recommended for students with interests in any area of computer technology including programming, software and web development, game development, mobile application development, database, information systems and computer maintenance and repair. ITP provides the opportunity for students to continue their education following high school at university, community college or technical school, prepared to earn an Associates' or Bachelors' Degree. Students have the potential to earn up to 16 semester hours of college credit through Ohio College Tech Prep and Ohio Board of Regents University System of Ohio.

ITP is highly regarded as one of the top Information Technology programs in Ohio. Science 2002, ITP students have earned numerous major team and individual-student awards on the regional, state and national levels of competition including four consecutive Skills USA National Championships for Tech Prep Information Technology. Since 2001 over 95% of ITP graduated have enrolled in post-secondary education including two and four- year colleges and universities as well as technical programs and elite military training programs.

Over the two years of ITP the following topics are learned: programming and logic and modular design, principles of web design, operating system technology, programming languages, website development, networking, database and computer applications; problem solving techniques and methodology; teamwork, leadership and professionalism skills; communication, technical writing, public speaking and employability skills. In the first year, all core-competency areas are covered providing a solid foundation on which our students can choose to build their future. In the second year, ITP students have the opportunity to choose their concentration area from a selection of Programming with C#, Programming with Java, Java Games Development, Mobile Applications Development, Web Design with Adobe Creative Suite or A+ Certification for Computer Hardware/Software Maintenance and Repair. The second year is further enhanced by collaboration with organizations such as Toastmasters International, Progressive Insurance Company's Enterprise Technology Group, and many other business and industry partners that provide Experiential Learning Opportunities for the ITP students. Competitive events give ITP students a realistic feeling for the high states nature of business and industry in our global economy. Through professional organizations such as Skills USA and Ohio College Tech Prep, ITP students have the opportunity to compete on the local, state and national level as individuals or teams.

Interactive Media

9516 Interactive Media 1
9616 Interactive Media 2
Location: Mayfield High School
Students can earn 12-15 college credits for Lakeland Community College, Tri-C and the Art Institute of Pittsburgh after successfully completing the IM program.

Prerequisite: Interview conducted by the instructor with portfolio samples of hand drawn or digitally created artwork. By the program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics.

Interactive Media (IM) is highly recommended for students with interests in the area of art combined with digital technology such as digital art and design, digital photography, graphic design, animation, web authoring, special effects video, 3D design, and emerging interactive multi-media technologies. The computer hardware found in the classroom matches the professional graphic arts environment. Students utilize drawing tables, scanners, digital photo and video cameras, lighting and sound equipment, and computers with dual display monitors. Interactive Media students learn to use professional level computer software for design, image editing, drawing and animation, special effects video, web authoring, vector graphics and desktop publishing.

Students become confident communicating effectively and professionally with adult clientele by working with local non-profit organizations and small business clients in the classroom. Interactive Media students have done award winning projects for clients that include the Lake County Metroparks and the Hungarian Society of Cleveland. Students will have high probability for employment in a 21st century career in the arts because computers are the standard tools for many jobs in the art industry today. Interactive Media provides the opportunity for students to continue their education following high school at university, community college or technical school. Also included in the student's learning will be Business, Economics and customer service concepts as well as leadership, teambuilding, communication and problem solving skills.

Licensed Practical Nursing

9634 Licensed Practical Nursing 1

Consists of 9634a: Patient Centered Care and 9634b: Nutrition and Wellness

9635 Licensed Practical Nursing 2

Consists of 9635a: Patient Centered Care and Diagnostics, and 9635b: Lifespan Development and Medical Intervention and 9635c: Medical Terminology

Location: NCI, Eastlake

Prerequisite: Interview conducted by the instructor. Must have a 3.0 cummaltive GPA at time of application and score a level 5 or above on WorkKeys Applied Math and Workplace Documents and a level 4 or above Graphic Literacy. By the program start date student must have completed coursework required for junior status at their home school.

Clinical Requirements: During the senior year, students attend clinical sites and will need to provide their own transportation to and from the sites. Students must pass a BCI background check, negative drug screen and submit evidence of other health screening requirements, which are required by the clinical sites. Students must also successfully pass CPR (training provided during the course) prior to attending clinicals.

Articulated College Credit: University of Akron-30 credits; (CTAG) transferrable to any 2 or 4 year college in Ohio- minimum of 30% of the technical nursing credits in a pre-licensure, associate degree nurse education program; 30 credits through Kent State University 3 credits (CTAG) for Medical Terminology

Certification Available: Licensed Practical Nursing (LPN), State Tested Nursing Assistant (STNA) and CPR.

This unique program is approved by the Ohio Board of Nursing, C.O.E, and the Ohio Department of Career and Technical Education. It is 1 of only 4 high school nursing programs in the state of Ohio. It progresses from the simple to complex in theory, skills and clinical practice. Some of the courses include: fundamentals of nursing which includes a skill lab component, body and structure, nutrition, professional relationships, pharmacology and medical/surgical nursing. Clinical experience is correlated with theory and is provided at local hospitals, rehab facilities, assisted living facilities and nursing homes.

Upon successful completion of the nursing course, the graduate takes the Ohio Board of Nursing examination which provides licensure for the graduate. Once licensed, the graduate nurse is able to provide comprehensive total nursing care to people of all ages.

ADMISSION REQUIREMENTS:

1. Passage of a pre-entrance exam with a proficient score. Proficient scores generally indicate a moderate level of overall academic preparedness necessary to support learning of nursing-related content.
2. Minimum cumulative GPA of 3.0 at the time of application.

Marketing Communications

9520 Marketing Communications

Location: Beachwood High School – Grade 12 Only

9 college credit through Lakeland Community College

Prerequisite: This program is designed for students entering their senior year. Prerequisites include an interview conducted by the instructor and by the program start date student must have completed coursework required for senior status at their home school.

Students who complete the program have the opportunity to earn college credit.

Marketing Communications is a college-preparatory course intended for students desiring to study business, marketing or a related field in college, start a business after graduation, or work immediately. Students will explore business topics through class instruction, marketing research engagement in small group debates, development of interpersonal communication and leadership skills, creative or effective persuasive presentations and discussion involving classroom to work world experience. All students are employed in diverse fields of choice and are evaluated at their work sites.

Students participate in DECA, the marketing leadership association for students to develop marketing skills outside of the classroom and to collaborate and be involved with other students across the country. Some DECA activities include volunteering, fundraising and business competitions that offer advancement to the state, national and international level. Students also belong to Junior Achievement.

Medical Assisting

9632 Medical Assisting 1

Consists of 9633b: Medical Terminology and 9632b Patient Centered Care and Diagnostics

9633 Medical Assisting 2

Consists of 9633a: Lifespan Development and Medical Interventions and 9632a: Medical and Dental Office Technology

Location: NCI, Eastlake

Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school. **Clinical Requirements:** During the senior year, students attend clinical sites and will need to provide their own transportation to and from the sites. Students must pass a BCI background check, negative drug screen and submit evidence of other health screening requirements, which are required by the clinical sites. Students must also successfully pass CPR (training will be provided during the course) prior to attending clinicals. **Articulated College Credit:** Lakeland Community College- 13 credits; University of Akron – 30 credits. 30 credits through Kent State University 3 credits (CTAG) for Medical Terminology

Certifications Available: Registered Medical Assistant (RMA) and CPR. Certified Phlebotomy Technician (CPT)

The Medical Assisting Program is designed to prepare students to handle both the clinical duties and administrative responsibilities in a medical setting. Students learn anatomy and physiology, medical office protocol, vital signs, and patient care. Medical terminology, medical ethics, office skills, and basic patient care are included. Classroom and clinical settings offer a variety of opportunities for learning.

Medical Technologies I and II

9567 Medical Technologies I

9568 Medical Technologies II

Location: Mayfield Innovation Center
6080 Wilson Mills Road
Mayfield Village, OH 44124

College Credit Plus Program

Grade 11

3 High School Credits

Grade 12

4 High School Credits

Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school. This includes seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics
Requirements: Proof of current vaccinations, required blood titers, PPD, seasonal flu inoculation, criminal background check.
Recommended for: College Bound/Technical Education

Students who complete the program have the opportunity to earn college credit.

Be sure to read all requirements of Medical Tech 2 before committing to this program.

Medical Technologies is intended for those students who are serious about an educational future in the medical/dental sciences. The program prepares students with an interest in the medical professions to develop the knowledge, attitudes, practices and technical skills to obtain employment in medical, dental and diagnostic treatment facilities. Medical Technologies prepares the student to continue their education in a post-secondary institution in the medical/dental or diagnostic sciences. The medical Technologies students will participate in instructional, laboratory, and clinical experiences designed to equip the student for direct patient care, diagnostic, therapeutic and treatment options. As seniors, students will participate in a clinical experience in world renowned health care facilities that will include an in depth look at local medical/dental facilities. Students must be able to provide their own transportation to the clinical lab experience. Related subjects include Lifespan Human Growth and Development, Principles of Allied Health, Patient Centered Care and Diagnostics, AHA Healthcare Provider C certification, OSHA completion, Infection Control and Risk Management, Human Relations, disease pathology/treatment, Basic Electrocardiogram Interpretation and Medical Terminology.

<u>Performing Arts Academy 1 and 2</u>
9570 Performing Arts Academy 1
9571 Performing Arts Academy 2
Location: Chagrin Falls High School
3 college credits through Cuyahoga Community College
Prerequisite: Audition consisting of two contrasting monologues or one monologue and one song, no more than 90 seconds each. Monologue texts and a list of recommended song selections will be posted on the Academy website. Students must be prepared to sing acappella. By the program start date student must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics. During the interview process a resume and a headshot or school photo, a letter of recommendation from a

theatre, drama or music program student has attended and a character reference should be provided.

The Chagrin Falls Performing Arts Academy is a college preparatory program for high school juniors and seniors. Juniors are encouraged to attend in the morning but accommodations may be made for juniors to attend in the afternoon; seniors are required to be in the afternoon session. The Academy is an accredited, half-day high school program which takes place during school hours. The program will consist of acting, theatre, voice, voice for the stage and tech theatre training and performance education. This will include daily acting classes, plus classes in voice, movement, musical theatre, technical theatre, stage combat, makeup, history, vocal training, and audition labs. The acting class will consist of sessions of improvisation, scene study, Shakespeare, Styles physical technique, acting for the camera and two years studying Stanislavski technique. The voice class will include vocal exercises, dialects and monologues. There will be fully mounted productions and student plays along with special workshops led by guest artists from the professional theatre. The Academy produces eight productions a year. Students need only participate in one show a year. Students may audition for as many as fit their schedule. Students auditioning must clear their schedule to accommodate rehearsals and productions. Students must provide their own transportation to after school and evening events.

Studio Art and Design

9595 Studio Art and Design 1

Consists of 9595a: Business of Arts and Communications and 9595b: Visual Creation

9695 Studio Art and Design 2

Consists of 9695a: Visual Design Primer and 9695b: Advertising and Communication

Location: Orange High School

Prerequisite: Studio art packet, portfolio, reference letter and interview

Do you **engage, invent, create…because we do.**

The expectation in Studio Art and Design is to prepare self-motivated, creative students for careers in the visual arts by developing a comprehensive portfolio for college acceptance.

Curriculum expectations:

- To embrace creative problem solving and visual communications while developing individual expressions within content, image and message.
- To analyze interdisciplinary connects that influence social and cultural contexts of visual imagery.
- To identify, examine and understand the aesthetic, stylistic and functional considerations of designing objects, environments and communications.
- To create a portfolio of art works that demonstrates high level of craftsmanship and conceptual understanding for display in various regional and national student exhibitions.

- To develop and support a personal philosophy of art based on aesthetic theories and understanding of visual culture.
- To investigate and plan strategies for lifelong involvement and advocacy of the arts. This program is geared toward the student with an interest in a career opportunity in Painting, Art Education, Fashion Design, Architecture, Interior Design, Display Design, Graphic Design, Advertising, Illustration, Animation, Photography, Fine Arts, Product Design and more.

The Studio Art and Design program has created a networking consortium of professional artists presently employed in multiple careers in art. This consortium was designed to be a professional contact and resource to help guide parents and inspire students in their college choices and career information from a professional contact within the networking group including former alumni from area high schools. Each student's portfolio work will be created and prepared for college acceptance along with expectations to compete for merit portfolio scholarships. These alumni represent several universities and art institutes including:

- Columbus College of Arts and Design
- Cleveland Institute of Art
- Rhode Island School of Design
- Pratt Institute
- Parsons School of Design
- Maryland Institute College of Art
- School of the Art Institute of Chicago
- Syracuse University

Teacher Education and Children's Health (TEACH)

9540 TEACH 1

9672 TEACH 2

Location: Fairmount Early Childhood Center at Beachwood

Prerequisite: Interview conducted by the instructor. By the program start date students must have completed coursework required for junior status at their home school including seven (7) credits with a mandatory two (2) credits each earned in English and Mathematics. Be sure to read all requirements of the TEACH 2 program before committing to this program.

Students who complete the program have the opportunity to earn college credit.

The Teacher Education and Children's Health (TEACH) program prepares students to full a vital role in the education and health of children. High school students receive the opportunity to teach and care for children in many different early learning environments. The first year of the program stresses basic skills needed to work with children and the students are provided with the opportunity to actively be engaged with children at our laboratory schools. In the second year, the students expand their experiences with

opportunities to intern with children birth through school-age and other childhood professionals. Again, the students assume a different role in the classroom and gain knowledge and experience working with children. In related class, the students are involved in learning activities requiring higher order thinking skills where they create and implement many learning opportunities for children.

Welding

9527 Welding 1

Consists of 9527a: Gas Metal Arc Welding and 9527b: Shielded Metal Arc Welding

9627 Welding 2

Consists of 9627a: Flux Cored Arc Welding and 9627b: Gas Tungsten Arc Welding

Location: NCI, Willoughby

Prerequisite: Interview conducted by the instructor. By the program start date student must have completed coursework required for junior status at their home school.

Students who complete the program have the opportunity to earn college credit.

This two-year program trains students in SMAW, GMAW, GTAW, FCAW-GS, CAC, blueprint reading and shop safety. Students are taught the same skills that are taught at the Lincoln School of Welding. Related classroom instruction is also an important part of the Welding program. In related class, students learn the scientific theories and principles of welding as well as information on fabrication and welding different alloys. Blueprint reading and layout skills along with mathematics and other job skills are part of the related class. Community Service projects are stressed. Opportunities for trained welders include millwright welder, fabrication welder, tack welder, pipe welder, welding inspector and welding equipment tender.

ENVIRONMENTAL EDUCATION PROGRAMS

Agriculture Career Exploration (A.C.E)
Cleveland Botanical Garden
Floriculture and Gardening Operations
Landscape Construction and Design

Environmental Education Programs
Grades 10-12
EE1 and EE2
College Tech Prep
Prerequisite: Interview by instructor.
Recommendations: Good attendance and discipline record
3 credits each year
6 college credits through Ashland or Cuyahoga Community College

These programs are designed to educate the student in practices of commercial horticulture, including ornamental landscaping, greenhouse production, public gardening,

and floral design. Plants provide the basis for our ecosystems and our economies. The curriculum is designed to prepare students for a wide array of careers in horticulture by blending academics and the technical subject areas. All programs are considered Tech Prep in which students have the opportunity to earn up to 6 semester college credits through an articulation agreement with Ashland and Cuyahoga Community College. Students will be required to complete a co-op project. Students will have the opportunity to explore post-secondary training in the area of agriculture by visiting Cuyahoga Community College and the Agricultural Technical Institute in Wooster. Students enrolling in the program also become members of FFA, and have the opportunity to join the Ohio Nurserymen and Landscapers Association.

9572 Agriculture Career Exploration (A.C.E)
Location: Gates Mills Environmental Education Center
Prerequisite: Interview conducted by the instructor and recommended by counselor and/or administrator.

This program offers 10^{th}-12^{th} grade students an exploration of the various Agriculture occupations with emphasis on entry level job skills. This work-study program is designed for selected students to explore agriculture-related careers while getting firsthand experience in the world of work. Students successfully completing various job shadow sites throughout the school year will have the opportunity to gain paid employment. While learning job skills, students will also gain knowledge in the areas of: employability skills, positive work habits, communication and interpersonal skills, basic floral design, landscape techniques, plant propagation and care, and general horticulture skills. Students will have the opportunity to explore post-secondary training in the area if agriculture by visiting Cuyahoga Community College, and the Agricultural Technical Institute in Wooster. Students enrolling in the program become members of FFA, and have the opportunity to join the Ohio Nurserymen and Landscapers Association.

9573 Cleveland Botanical Garden and Holden Arboretum
Location: Cleveland Botanical Garden & Holden Arboretum

Cleveland Botanical Garden & Holden Arboretum Program is for students that desire a career in landscape maintenance and public gardening. The students are engaged by hands-on horticultural experiences as they work alongside their teachers and the knowledgeable CBG and HA staff members in areas of interest. This program is designed for those students who wish to develop their landscaping skills, work habits, and knowledge to ultimately become successful workers in the horticulture industry and productive members of society. Entry employment opportunities are available and continuation of higher education is encouraged after completion of the program.

9574 Floriculture and Gardening Operations
Location: Gates Mills Environmental Education Center

The Floriculture and Gardening Operations program is for students who wish to explore areas in the green industry before entering post-secondary training or the work force. The program offers the basics in landscape and golf course maintenance, gardening, greenhouse, floral, garden center and nursery operations. The program includes hands-on training by growing, maintaining, selling and designing with trees, shrubs, perennials, annuals, vegetables, houseplants and cut flowers. Students are encouraged to participate in a paid internship program to enhance the learning experience in specialized areas of horticulture. Opportunities are available for students to participate in community events, field trips, volunteer experiences, National Technical Honor Society, industry certifications, local and state competitions and FFA. Students will also have the opportunity to make connection with industry professionals.

Landscape Construction and Design
9546 Landscape Construction and Design 1
9547 Landscape Construction and Design 2
Location: Gates Mills Environmental Education Center

The Landscape Construction and Design Program is an intensive Tech Prep program designed for students who are serious about employment in the landscape industry and/or to prepare themselves for further education in a college, university, or trade school. The course uses a project based, problem based philosophy. The course provides students with hands-on work and instruction both on the horticulture campus and at off-site locations. Students will engage in topics such as landscape equipment operation, landscape design and estimating, plant identification and care, construction with stone, wood and precast pavers, and general maintenance of the landscape. Career opportunities include: landscape designer/architect, crew leader – landscape maintenance, park system maintenance, landscape/hardscape construction, and gardener.

INTERVENTION PROGRAMS

Agriculture Career Exploration (A.C.E)
Career Based Intervention at Gates Mills
Career Based Intervention at Tri-C
Job Training
All students have the ability to learn, to establish a career plan and carry out their career path to gain success in their lives. The intervention programs are designed to assist students who possess barriers to career and academic success to establish a career path by using work based learning experiences and gaining competencies to achieve a successful path to career options. The intervention instruction is designed to help students recover credits, get back on track academically and establish career goals. Based on the student's

age, potential career desires and academic credits they will be referred to the appropriate intervention program by the student's guidance counselor and/or principal.

9572 Agriculture Career Exploration (A.C.E)

Location: Environmental Education Center, Grades 10-12

Prerequisite: Interview conducted by the instructor and recommended by counselor and/or administrator

This program offers 10th-12th grade students an exploration of the various Agriculture occupations with emphasis on entry level job skills. This work-study program is designed for selected students to explore agriculture-related careers while getting firsthand experience in the world of work. Students successfully completing various job shadow sites throughout the school year will have the opportunity to gain paid employment. While learning job skills, students will also gain knowledge in the areas of: employability skills, positive work habits, communication and interpersonal skills, basic floral design, landscape techniques, plant propagation and care, and general horticulture skills. Students will have the opportunity to explore post-secondary training in the area of agriculture by visiting Cuyahoga Community College, and the Agricultural Technical Institute in Wooster. Students enrolling in the program become members of FFA, and have the opportunity to join the Ohio Nurserymen and Landscapers Association.

9575 Career Based Intervention

Location: Gates Mills Environmental Education Center, Grades 9-10 Prerequisite: Interview conducted by the instructor and recommended by counselor and/or administrator

9th graders earn up to seven credits dependent upon student performance (2 Lab, 1 Related, up to 4 Virtual Learning), 10th graders earn up to eight credits dependent upon student performance (2 Lab, 1 Related, up to 5 Virtual Learning)

Career-Based Intervention (CBI) is a Career Technical Education Program designed for students in grades 9-10 who have barriers to achieving academic and career success. The program is designed to help students recover credits and improve academics.

9306a Business Foundations

Subject Code: 141000

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

9306b Management Principles

Subject Code: 141025

Students will apply management and motivation theories to plan, organize and direct staff toward goal achievement. They will learn to manage a workforce, lead change, and build relationships with employees and customers. Students will use technology to analyze the internal and external business environment, determine trends impacting business, and examine risks threatening organizational success. Ethical challenges, project management and strategic planning will also be addressed.

9307a Strategic Entrepreneurship

Subject Code: 141030

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

9307b Marketing Principles

Subject Code: 144000

Students will obtain fundamental knowledge and skills in marketing communication, marketing management, marketing research, merchandising and professional selling. They will acquire knowledge of marketing strategies, market identification techniques, employability skills, business ethics and law, economic principles and international business. Technology, leadership and communications will be incorporated in classroom activities.

9427a Ground Transportation Maintenance

Subject Code: 177000

In this first course, students will apply skills needed to inspect and perform general service on vehicles. Students will research applicable service information and technical service bulletins and perform maintenance on vehicles. Students will inspect and service engine, drive train, suspension, steering, electrical and braking systems. Students will perform ignition maintenance including spark plug/glow plug and ignition wire and coil pack replacement. Additionally, students change fluids and filters and inspect vehicles for leaks and fluid condition.

9427b Automotive Braking, Suspension, and Steering Systems

Subject Code: 177003

Students will perform inspections, troubleshoot malfunctions and service automotive undercarriage systems. Students will identify poor performing hydraulic brake systems and replace malfunctioning components. 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. Additionally, students will disable and enable supplemental restraint systems (SRS) and will replace antilock brake systems components.

9428a Ground Transportation Electrical/Electronics

Subject Code: 177002

Student 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 utilize printed and electronic repair manuals to troubleshoot electrical circuits, test components and replace defective modules.

9428b Automotive Engine Performance

Subject Code: 177006

Students will research vehicle service histories using model specific service bulletins. Students will test and diagnose for 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.

9450a Gas Metal Arc Welding

Subject Code: 176000

Students will use the Gas Metal Arc Welding process (GMAW) to 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, shielding gas and adjust welding equipment based on the physical characteristics and metal properties. Students will apply quality control factors to evaluate weld quality.

9450b Shielded Metal Arc Welding

Subject Code: 176001

Students will be able to use the Shielded Metal Arc Welding process (SMAW) to 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 their quality control factors to evaluate the quality of welds.

9451a Flux Cored Arc Welding

Subject Code: 176002

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

9451b Gas Tungsten Arc Welding

Subject Code: 176003

Students will use the Gas Tungsten Arc Welding process (GTAW) to 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 and 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.

9512a Collision Nonstructural Inspection & Repair

Subject Code: 177011

Students will learn the skills and knowledge of automotive body panel repairs, replacements, and adjustments. Students will analyze, document 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.

9512b Collision Painting & 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 and will develop and execute a plan for refinishing using a total product system. Students will inspect, clean, and determine condition of spray guns and related equipment. Additionally, students will observe safety precautions when using hazardous materials.

9527a Gas Metal Arc Welding

Subject Code: 176000

Students will use the Gas Metal Arc Welding process (GMAW) to 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, shielding gas and adjust welding equipment based on the physical characteristics and metal properties. Students will apply quality control factors to evaluate weld quality.

9527b Shielded Metal Arc Welding

Subject Code: 176001

Students will be able to use the Shielded Metal Arc Welding process (SMAW) to 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 their quality control factors to evaluate the quality of welds.

9595a Business of Arts and Communications

Subject Code: 340006

A growing number of professionals make a living in industries related to arts and communications. From event management to tracking expenses, students learn the business side of visual, media and performing arts. Topics include marketing, branding, producing, promoting, booking, budgeting and merchandising, etc. Students learn and apply intellectual property rights, licensing, copyright,

royalties, liabilities and contractual agreements. They learn how both profit and non-profit organizations and businesses operate.

9595b Visual Creation

Subject Code: 340315

A keen eye for detail, art elements, design principles and styles of art are essential to the world of visual communications. Students learn proper composition with such principles as color theory, typography and drawing. They create designed targeted for the Internet and for two- or three dimensional products while adhering to copyright laws and deadlines.

9612a Collision Structural Inspection & Repair

Subject Code: 177010

Students will perform automotive collision repair of full and unibody frames and attach nonstructural 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.

9612b Collision Electrical & Mechanical Systems

Subject Code: 177009

Students will perform inspections and repair electrical and mechanical damage due to collision. Topics include electrical and wiring harness, suspension, and braking and cooling system repairs. Students will service supplemental restraint systems (SRS) and ensure the integrity of the systems.

9627a Flux Cored Arc Welding

Subject Code: 176002

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

9627b Gas Tungsten Arc Welding

Subject Code: 176003

Students will use the Gas Tungsten Arc Welding process (GTAW) to 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 and 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.

9632a 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.

9632b 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.

9633a 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.

9633b 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.

9634a 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 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.

9637c: Pharmacology

Subject Code: 072085

Students will apply the principles of pharmacology in order to read, interpret and dispense

prescriptions. They will learn how medications are classified and administered. Students will study the impact of drugs on different systems of the body, interaction of drugs, side effects and effectiveness in relation to dosages.

9635a 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.

9635b 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.

9635c 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.

9636a Principles of Allied Health

Subject Code: 072035

In this first course 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.

9636b 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 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.

9637a 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.

9637b 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.

9695a Visual Design Primer

Subject Code: 340310

Visual design takes the form of charts, drawing, boxes and more. In this first course for the Visual Design and Imaging pathway, students gain a perspective of symbols, typography and product output. They acquire basic knowledge of today's role of graphics in communication industries. Focusing on the consumer, students analyze products and create their own designs for critique. They learn how safety, deadlines, teamwork and ethics relate to the work.

9695b Advertising and Communication

Subject Code: 340340

Creators and producers of graphic images must understand how to integrate and adapt creations for multiple marketing purposes. Students research and analyze the power of visuals in advertising campaigns and public relations events. Using the principles of advertising and visual communications, they develop strategies and products for specific purposes and audiences. They use logos, images and type integrated strategically to create both printed and electronic products on a theme.

NONDISCRIMINATION POLICY: The Willoughby-Eastlake City Schools comply with the Rules and Regulations as set forth in Title IX implementing the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973. Complaints from students will follow a three-step procedure: 1) grievance filed initially with the building administrator (or designee) with notification to the Title IX compliance officer, 2) review by the appropriate director, and 3) appeal to the compliance officer.

The following documents should be completed by each student with the support of parents/guardians and a guidance counselor. Each student is encouraged to complete these forms in pencil, as they are intended to be documents which grow or adjust as a student progresses through school. An electronic version of these documents is also available on the district website: www.weschools.org

My Four-Year Planning Guide

Grade 9			
1st Semester		**2nd Semester**	
English		English	
Math		Math	
Science		Science	
Social Studies		Social Studies	
Computer		Computer	
PE		PE	
Elective		Elective	
Elective		Elective	
Elective		Elective	

Total Credits Earned: _____

Grade 10			
1st Semester		**2nd Semester**	
English		English	
Math		Math	
Science		Science	
Social Studies		Social Studies	
Computer		Computer	
PE		PE	
Health		Health	
Elective		Elective	
Elective		Elective	

Total Credits Earned: _____

(Fall Administration) PSAT Scores:

Critical Reading: _____ **Math: _____** **Writing: _____**

Grade 11			
1st Semester		**2nd Semester**	
English		English	
Math		Math	
Science		Science	
Social Studies		Social Studies	
Computer		Computer	
PE		PE	
Health		Health	
Elective		Elective	
Elective		Elective	

Total Credits Earned: _____

(Fall or Spring Administration Recommended) ACT Scores:

English: _____ Math: _____ Reading: _____ Science: _____ Writing: _____ Composite: _____

(Spring Administration Recommended) SAT Scores:

Critical Reading: _____ Writing: _____ Math: _____ Optional Subject Score(s):_____

Grade 12			
1st Semester		**2nd Semester**	
English		English	
Math		Math	
Science		Science	
Social Studies		Social Studies	
Computer		Computer	
PE		PE	
Health		Health	
Elective		Elective	
Elective		Elective	

Total Credits Earned: _____

Students are encouraged to refer to pages 5-6 for Graduation Requirements and page 9 for Eligibility Requirements.

(Fall Administration Recommended) ACT Scores:

English: _____ Math: _____ Reading: _____ Science: _____ Writing: _____ Composite: _____

Course Selection Overview

English			Science		
Course Number	**Course Title**	**Credits**	**Course Number**	**Course Title**	**Credits**
301	English I	1.0	2302	Physical Science	1.0
310	English I Honors	1.0	2401	Honors Biology	1.0
401	English II	1.0	2403	General Biology	1.0
421	English II Honors	1.0	2421	Environmental Science	1.0
522	English III	1.0	2423	AP Environmental	1.0
531	English III Honors	1.0	2500	Honors Chemistry	1.0
532	AP Eng. Language	1.0	2507	General Chemistry	1.0
621	AP Eng. Literature	1.0	2602	Physics	1.0
622	English IV	1.0	2604	STEM Drone*	0.5
631	English IV Honors	1.0	2621	AP Biology	1.0
500	Speech/Oral Interp.	0.5	2631	AP Chemistry	1.0
503	Literature as Film	0.5	2641	AP Physics I	1.0
504	Creative Writing	0.5	2605	AP Physics II	1.0
505	Contemporary Lit.	0.5	2642	Forensic Science*	0.5
511	Drama/Theater	0.5	2643	Astronomy*	0.5
512	Yearbook	1.0	2645	Honors Human Anatomy & Physiology	1.0
613	Writing for College I	0.5	2610	PLTW Principles of Biomedical Science	1.0
614	Writing for College II	0.5	2611	PLTW Engineering Essentials	1.0

*Denotes elective with a STEM Focus

Math			Social Studies		
Course Number	**Course Title**	**Credits**	**Course Number**	**Course Title**	**Credits**
3091	Honors Geometry	1.0	1315	World History & Civilizations	1.0
3093	Algebra I	1.0	1316	Honors World History & Civilizations	1.0
3101	Honors Algebra II Trig	1.0	1402	US History	1.0
3103	Geometry	1.0	1403	Honors US History	1.0
3123	Pre-Calculus	1.0	1502	Sociology	0.5
3111	Honors Pre-Calculus	1.0	1503	Psychology	0.5
3124	Financial Algebra	1.0	1504	AP Psychology	1.0
3113	Algebra II	1.0	1506	US Government	0.5
3121	AP Calculus AB	1.0	1510	US Military: Past, Present & Future	1.0
3122	Introduction to College Math	1.0	1621	AP US History	1.0
3520	Applied Algebra II	1.0	1624	Senior Seminar Post WWII	0.5
3125	AP Statistics	1.0	1625	Senior Seminar Modern Era	0.5

	Math				Social Studies	
Course Number	**Course Title**	**Credits**		**Course Number**	**Course Title**	**Credits**
3126	AP Calculus BC	1.0		1607	Financial Literacy	0.5
3128	Sports Statistics	0.5		1727	Microeconomics	0.5
3114	Advanced Quantitative Reasoning	1.0		1728	Macroeconomics	0.5
				1622	European History	1.0
				1630	AP European History	1.0

Business				Health and P.E.		
Course Number	**Course Title**	**Credits**		**Course Number**	**Course Title**	**Credits**
5500	Introduction to Business	0.5		8401	Health	0.50
5502	Accounting	1.0		8302	Competitive Team Sports I	0.25
5503	Entrepreneurship	0.5		8303	Competitive Team Sports II	0.25
5507	Business LAB/School Store	1.0		8304	Lifelong Wellness I	0.25
				8305	Lifelong Wellness I I	0.25
				8306	Strength and Conditioning I	0.25
				8307	Strength and Conditioning II	0.25
				8603	Plyometrics & Conditioning	0.5

Computer Education				Art		
Course Number	**Course Title**	**Credits**		**Course Number**	**Course Title**	**Credits**
3900	Computer Science I*	0.5		7405	Art I	1.0
3901	Computer Science II*	0.5		7406	Art II	1.0
3902	Programming*	0.5		7502	Art III	1.0
3903	Multimedia Communications*	0.5		7602	Art IV	1.0
3904	HTML/Java Script*	0.5		7407	Ceramics I	0.5
3907	Computer Aided Design 2D-3D*	0.5		7507	Ceramics II	0.5
3908	Media Productions*	1.0		7408	Graphic Design I	0.5
3999	Student Experience Through Design (South)*	1.0		7408B	Graphic Design II	0.5
2601	STEM Robotics*	0.5				
2607	STEM Digital Fabrication I*	0.5				
2608	STEM Digital Fabrication II*	0.5				

	Computer Education					
Course Number	**Course Number**	**Course Number**				
2609	STEM Digital Fabrication III*	0.5				

*Denotes elective with a STEM Focus

Family Consumer Science				Art		
Course Number	**Course Title**	**Credits**		**Course Number**	**Course Title**	**Credits**
6402	Creative Cooking	0.5		7401	Symphonic Band	1.0
6502	Food for Fitness	0.5		7403	Wind Symphony	1.0
6506	Independent Living	0.5		7412	Mixed Choir	1.0
6508	Child Development	0.5		7416	Treble Choir	1.0
1300	Career Explorations	0.5		7512	Concert Choir	1.0

World Language				General Electives		
Course Number	**Course Title**	**Credits**		**Course Number**	**Course Title**	**Credits**
4301	French I	1.0		800	ACT/SAT Prep	0.5
4401	French II	1.0		1000	Rebel Grow Mentoring (South)	1.0
4501	French III	1.0		1110	Academic Decathlon(South)	1.0
4601	French IV Honors	1.0		1004	Rebel Grow Freshman Mentee Program	0.5
4701	French V Honors	1.0				
4304	Spanish I	1.0				
4404	Spanish II	1.0				
4504	Spanish III	1.0				
4604	Spanish IV Honors	1.0				
4704	Spanish V Honors	1.0				