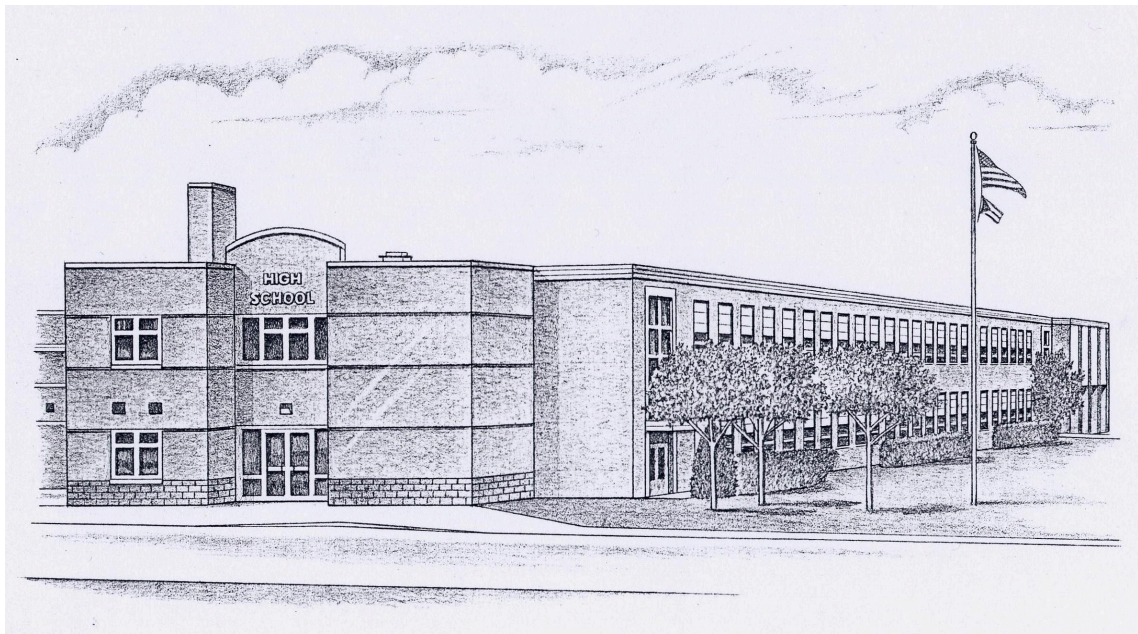


James A. Garfield H.S.

Curriculum Guide

2025-2026

January 9, 2025



James A Garfield High School

10233 State Route 88
Garrettsville, OH 44231

Phone Numbers

Athletic Office	330-527-0039
Attendance Office	330-527-0027
Main Office	330-527-4341
Special Services	330-527-5524
Transportation Office	330-527-4250

District Administration

Ted Lysiak	Superintendent
Emery Boyle-Scott	Director of Special Services

High School Administration

Kathleen Kisabeth	Principal
Bethany Maresh	Dean of Students
Jim Pflieger	Athletic Director

High School Guidance Counselors

Jeff Livingston	Grades 10-12
Shelby Scirocco	Grades 7-9

Board of Education

Guy Pietra	President
David Vincent	Vice President
Patricia Brett	
Colleen Khairallah	
Deral White	

High School Website

<http://www.jagschools.org/o/jag-high-school>

District Website

<http://www.jagschools.org>

The James A. Garfield Schools are an equal opportunity provider & employer.

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Credit Requirements

It is the student's responsibility to see that requirements for graduation are met. The Guidance and Counseling Department makes every effort to keep students and parents informed. However, the final responsibility rests with the student and parents. If you have questions regarding scheduling or other questions, please contact Jeff Livingston (jelivingston@jagschools.org) or Shelby Scirocco (sscirocco@jagschools.org).

Minimum Requirements for Graduation

English	4 Credits	Health	0.5 Credit
Mathematics*	4 Credits	P E	0.5 Credit
Science**	3 Credits	Electives	5 Credits
Social Studies***	3 Credits	Fine Arts	Required as one of your elective credits****
Total: 20 Credits		PFL	0.5 Credit

*Mathematics units must include 1 unit of the following: Algebra II, Data Science or Mathematical Modeling & Reasoning

**Science units must include 1 unit of Physical Science, 1 unit of Life Science and 1 unit advanced study in one or more of Chemistry, Physics, Advanced Biology, or Earth Science

***Social Studies units must include ½ unit of U.S. History, ½ unit of Government, and ½ unit of World History

****Maplewood students are exempt from the fine arts credit

The James A. Garfield School District has adopted a policy that exempts students who participate in interscholastic athletics, band or cheerleading for two full seasons from the physical education requirement. Students must take another course of at least 60 contact hours in its place.

Graduation Requirements

First - Students will need to meet all graduation credits.

- 4 English
- 4 Math
- 3 Science
- 3 Social Studies (including ½ Government, ½ World History, and ½ U.S. History)
- ½ PE
- ½ Health
- ½ Financial Literature
- 1 Fine Art
- 5 Electives

Second - Students will need to show competency by doing one of the following:

- Earning a competency score on Algebra I and English II tests.
- Demonstrate Two Career-Focused Activities
- Enlist in the Military
- Complete College Coursework

Third - Students will need to show readiness by earning two of the following seals (at least one State-Defined):

(State-Defined)

- OhioMeansJobsReadiness Seal
- Industry-Recognized Credential Seal
- College-Ready Seal
- Military Enlistment Seal
- Citizenship Seal
- Science Seal
- Honors Diploma Seal
- Seal of Biliteracy
- Technology Seal

(Locally-Defined)

- Community Service Seal
- Fine and Performing Arts Seal
- Student Engagement Seal

Please see a school counselor, principal, or the Ohio Department of Education for more information.

Honors Diploma Criteria - See Appendix A

College Credit Plus

Dual Credit classes allow eligible high school students to enroll in a college course and earn college credit while still in high school. This may be done in multiple ways:

- The student may take Dual Credit courses on our campus
- The student may take classes at the college or university of their choosing
- The student may take classes online
- The student may take any combination of these
- The student may take classes at multiple postsecondary institutions

Interested students and their parents are required to attend a CCP meeting or meet with their school counselor to review guidelines. Following the informational

meeting, students who wish to participate in the program are required to complete their CCP Intent to Participate forms prior to April 1st of the school year preceding the year in which the student plans to participate in the program.

Students must be accepted as a CCP student at the individual institution they wish to attend.

Students must also adhere to the eligibility requirements set forth by the OHSAA and the James A. Garfield Board of Education to participate in athletics.

James A. Garfield High School has partnered with Hiram College offer JAG students the opportunity to take courses for both high school and college credit **on our campus**. All dual credit classes that take place on our campus will be taught by a James A. Garfield teacher at the high school, as approved and certified by the respective departments at each university. Students will remain at the high school for all instruction. The curriculum for the college course will be followed in order to offer college credit. Students will take the university final at the completion of the course. Students successfully completing the course will receive college credit. The student will have a transcript reflecting the credits earned and a college GPA. The grade in the dual credit course will also be reflected as the grade earned as the JAG course and will be calculated into the student's cumulative high school GPA.

If a student is not accepted to the partner institution associated with a course offered on our campus, they may be granted permission to remain in the class and earn high-school only credit on an unweighted GPA scale. **Students who are not taking at least three classes at JAG HS will not be eligible for honor roll.**

Dual Credit Course Offerings taught at JAG HS with dual credits earned through college and JAG High School:

Hiram College -

Biol 151: Intro Biology I: w/lab

Biol 152: Intro Biology II: w/lab

WRLA 101: Writing in Liberal Arts

Math 108: Statistics: MM

Fren 101: Beg French I

Math 197: Precalculus

Math 198: Calc I: MM

Costs and Grades of College Credit Plus:

Students have two options for College Credit Plus

Option A: allows students to take classes for college credit ONLY at their own expense.

Option B: allows students to take college classes for BOTH high school and college credit.

Option A Cost: The rate of credit hours per the higher education institution you wish to attend.

Option B Cost: Students will NOT be required to pay for the cost of tuition, textbooks, materials, or fees associated with such courses. Students will NOT be

assessed tuition and or fees as long as they **pass their class**, order textbooks through the high school and return the textbooks.

Option A Grades: grades for courses taken under Option A are not included on the high school transcript nor do they affect GPA.

Option B Grades: grades for courses under Option B (for high school as well as college credit) will be included in calculations of GPA and class rank and may affect eligibility for graduation.

Please contact Mr. Livingston for more information.

Procedural Guidelines:

- Interested students and their parents are required to attend a CCP meeting or meet with their school counselor to review guidelines
- Fill out CCP Final Forms by April 1st of the school year preceding the year in which the student plans to participate in the program.
- Student must have a qualifying GPA or ACT score that meets the requirements of the university in which they are attending

Requirements:

Hiram College:

Application and credential review is holistic and there is no single set of fixed criteria that solely determines admissibility to Hiram College. Each admission application and its supporting credentials are carefully read and given individual consideration. Hiram College reserves the right to make the final determination of a student's admissibility to the College.

College Credit Pathways:

Below are possible examples of ways students can earn up to 15 or 30 college credit hours. There is flexibility in these pathways and if students are interested in earning all 15 or 30 hours they should discuss these pathways with their counselor.

Possible 15 Hour Pathway

English Composition 1	3 hours
Calculus or College Mathematics	3 hours
Humanities or Fine Arts Course	3 hours
Social Science Course	3 hours
Biology I	3 hours

Possible 30 Hour Pathway

15 hours from list above	15 hours
English Composition 2	3 hours
Calculus II or Statistics	3 hours
Humanities or Fine Arts Course	3 hours
Social Science Course	3 hours
Biology II or Physics or Chemistry	3 hours

Credit Flexibility Options

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 customize students' needs and interests. Credit flexibility options are designed for those students who demonstrate the ability, interest, and maturity to accept personal responsibility for their learning in a selected curricular area and have the opportunity to pursue it outside of James A. Garfield High School. If there are any questions pertaining to the James A. Garfield credit flexibility options, please contact the guidance counselors.

Classification of Students

Students are required to be scheduled in a class for six (6) periods per day.

- This translates into a Minimum load for Freshmen & Sophomores: 5 3/4 credits per year
- Minimum load for Juniors: 6 credits per year
- Senior Exception: 5 credits with the option to have an adjusted school day if the student is in good standing for graduation, has good attendance, and/or passed state testing requirements
- Any student taking less than 6 credits must have it approved by the administration.

College Preparatory Curriculum

Recommendations for Ohio's State-Assisted Universities

College-bound students should be aware that the state universities in Ohio (Akron, Bowling Green, Central State, Cincinnati, Cleveland State, Kent, Miami, Ohio State, Ohio University, Shawnee, Toledo, Wright State, and Youngstown) endorse the minimum core curriculum for college preparation in Ohio, which consists of the following:

English	4 credits
Math	4 credits (Algebra, Geometry, Algebra II, 4 th Required Math Course)
Science	3 credits (Physical Science, Biology, Chemistry)
Social Studies	3 credits
World Language	2 credits of the Same Language
Visual/Performing Arts	1 credit (Fine Arts Curriculum)

Private and out-of-state colleges and universities may require more extensive preparation in specific subject areas (e.g., 3 credits of world language). Check with the college or university of your choice for additional information.

Career & Technical Education

The following curriculum is designed for those students planning to attend their 11th & 12th grade at Maplewood Career Center for Career & Technical Education.

Grade 9		Grade 10	
English 9	1 Credit	English 10	1 Credit
Algebra I	1 Credit	Geometry	1 Credit
Physical Science	1 Credit	Biology I	1 Credit
Modern World History	1 Credit	American History	1 Credit
Physical Education I	0.25 Credit	Physical Education II	0.25 Credit
Electives	1.5 Credit	Health	0.5 Credit
		Electives	1 Credit

Maplewood Career Center Admissions

Two-Year Program - beginning in Grade 11

Junior Year

Lab	3 Credits
English	1 Credit
Math	1 Credit

Senior Year

Lab	3 Credits
English	1 Credit
Math	1 Credit

A third credit of Science and Social Studies will be taken during the Junior and Senior years.

Maplewood General Information

Purpose

Maplewood Career Center was established to provide a broad range of career and technical preparation programs for students who want to prepare for career employment immediately after high school.

Admissions Requirements

Any student who is 16 years old or older by October 1st of the school year, has attended two years of high school, and has earned at least 4 credits, is usually eligible for admission to Maplewood.

Application Procedures

Eligible students should contact their home school guidance counselor to apply.

Expenses

There is no tuition charge for high school students from a participating school district. Students may be required to purchase tool kits or other special items needed for certain courses.

Academic Electives

Maplewood offers most students the opportunity to enroll in one additional academic class during each year at Maplewood. Students planning to attend college after graduation or students who are short credits for graduation may elect to schedule an additional class. Maplewood's goal is to prepare students both academically as well as vocationally for employment after graduation.

Transportation

Students will be transported by bus from their home to and from Maplewood each day. A limited number of work experience programs require students to furnish their own means of transportation.

Student Activities

Students are encouraged to participate in co-curricular activities and commencement (graduation) at Garfield. In addition, Maplewood also offers many clubs for the students.

Graduation

Students remain members of Garfield, and graduate from their home school. In addition to their high school diploma, students receive a vocational certificate awarded by Maplewood. Full-time employment, potential self-employment, apprenticeship, technical school, and college are some of the opportunities open to the career center graduate.

The Registration Process

During the scheduling process, students are only requesting classes. No student is guaranteed that any course requested will be available. Students may have to make alternative selections at some time during the scheduling process. Some students may be assigned to specific classes for academic reasons, because of scheduling conflicts, or because classes may be offered in alternate school years. Classes may also be added to incomplete schedules. While the intent of the registration process is to give the widest possible range of choices to the student, the practical matter of building a schedule for the high school staff and students may require necessary changes in individual student schedules. Requests for a specific teacher will not be considered before, during, or after the registration is completed.

Schedule Changes

Schedule changes, adds and drops, will be handled by the guidance counselor.

Procedure

1. Schedule changes will only be considered during the 1st week of each semester for electives. Core courses (Math, English, Science, History, AP and/or CCP) courses may be changed until interims of the 1st nine weeks with a meeting with student, parent, teacher and counselor.
2. Students must turn in a completed add/drop form to their counselor.
3. An appointment must be made with a counselor to arrange an alternative schedule.
4. After the 1st week of each semester, no classes will be added and the credit requirement must be maintained. Students dropping a course after the 1st week of the semester will receive a “WF” (withdraw fail) on their transcript.

Exceptions to this policy can be made depending on specific circumstances.

Grade Point Average and Class Rank

GPA is determined by adding the quality points and dividing by the credits earned. The quality points are determined by multiplying the value assigned by the grade and the value of the credit. Class rank is based on all courses studied in grades 8-12 where letter grades and credits are issued. **Final rank** is computed at the completion of **eight** semesters.

Non-Weighted Classes

0.25 credit x 4.0 = 1 quality point
0.50 credit x 4.0 = 2 quality points
1 credit x 4.0 = 4 quality points

Weighted Classes

1 credit x 5.0 = 5 quality points

Example GPA calculation

English 9	1 credit	88%	3.5 QP
PE	0.25 credit	91%	0.95 QP
Algebra I	1 credit	79%	2.6 QP
Modern World History	1 credit	98%	4.0 QP
Desktop Applications	0.50 credit	65%	0.70 QP
Total	3.75 credit		11.75 QP

11.75 QP divided by 3.75 Credits = 3.13 GPA

Grading Scale

Letter Grade	% Range	Point Value	Weight Point Value
A	95-100	4.0	5.0
A-	90-94	3.8	4.8
B+	87-89	3.5	4.5
B	83-86	3.2	4.2
B-	80-82	3.0	4.0
C+	77-79	2.6	3.6
C	73-76	2.3	3.3
C-	70-72	2.0	3.0
D+	67-69	1.7	2.7
D	63-66	1.4	2.4
D-	60-62	1.0	2.0
F	<60	0	0

Weighted Classes Include:

- All AP Classes
- All College Credit Plus Classes (Dual Credit)

Non-weighted Classes include:

- CCP Taken for high school credit only
- All other academic courses

The GPA is calculated at the end of each semester.

CUM LAUDE SYSTEM

Outstanding student achievement will be recognized with the distinctions of Cum Laude, Magna Cum Laude, and Summa Cum Laude. The following chart illustrates how the grade point averages will be calculated for all students. Students will be recognized at commencement according to their GPA based upon the following:

Summa Cum Laude	GPA of 4.00 or Above
Magna Cum Laude	GPA of 3.75-3.99
Cum Laude	GPA of 3.5-3.75

The top five students according to class rank after seven semesters will be the five commencement speakers at graduation. Cum Laude honors are based on grades earned at the end of the **seventh** semester of a student's high school career.

Class Rank

Class rank will be used for scholarship purposes, commencement speakers, and official transcripts. **Students must complete at least 5 of their 7 semesters at JAG HS to be eligible for the Georgia Lee Alford Scholarship.**

Semester/Yearly Grade Calculations

Semester Calculation

Average of 1st nine weeks = 40% of total grade

Average of 2nd nine weeks = 40% of total grade

Average of semester exam grade = 20% of final grade

Example Calculation:

1st 9 weeks = 78% x .40 = 31.2

2nd 9 weeks = 89% x .40 = 35.6

Exam = 53% x .20 = 10.6

Grade = 77%

Yearly Calculation

(Semester 1 + Semester 2) divided by 2

Example Calculation: 77% + 89% divided by 2 = 83%

Athletic Eligibility

Athletes must have a 1.0 GPA and pass 5 credits *not including Physical Education I & II* the preceding 9 weeks to be eligible to participate in athletics.* For eligibility purposes, ½ credit courses count as 1 credit. Refer to the Student Handbook for more details.

COURSE DESCRIPTIONS

Dual Credit and AP Offerings

Writing in Liberal Arts
Precalculus
Calculus
Statistics:MM
Methods of Decision Making
Intro Bio I & Bio II:w/lab
Beg French I
Musical Theater
History of Rock and Roll
AP English Lit & Composition
AP U.S. History
AP U.S. Government & Politics
AP World History

Art and Photography Department

Studio Art A

Grade Level: 9,10,11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0011

Fee: \$15.00

Studio Art A is a basic course in drawing, painting, collage, figure drawing, and portraiture. This is an introduction to the foundations of art and students will demonstrate their understanding of art concepts. All students are expected to spend at least 1-2 hours per week out of class on their weekly sketchbook drawings. The class fee will be used to buy art materials/supplies for the projects you will take home.

Studio Art B

Grade Level: 9,10,11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0012

Fee: \$15.00

Studio Art B is a basic course in ceramics, art history, print making and paper mache and a foundation to further studies in art. In specific assignments students will demonstrate their understanding of art concepts and develop good craftsmanship and care of equipment. The class fee will be used to buy art materials/supplies for the projects you will take home.

Art II

Grade Level: 10,11,12

Credit: 1

Prerequisite: Studio Art A & Studio Art B

Length: Year

Course Number: 0015

Fee: \$30.00

The second-year course is for students interested in pursuing a career in art. The course will be divided into four groups: 1) drawing, 2) painting, 3) sculpture

and pottery, 4) commercial art. A stronger concentration in each area will be made so as to achieve projects of higher quality than in Art I. Students will have a weekly sketchbook assignment to be completed outside of class. The class fee will be used to buy art materials/supplies for the projects you will take home.

Art III

Grade Level: 11,12

Credit: 1

Prerequisite: Art II

Length: Year

Course Number: 0020

Fee: \$30.00

The third-year course is for students interested in pursuing a career in art. Students will experiment and explore new areas of art along with developing individual preferences. Commercial art, printmaking, crafts, mixed media, performance art, and a continuation of previously studied media will be presented. Students will have a weekly sketchbook assignment to be completed outside of class. The class fee will be used to buy art materials/supplies for the projects you will take home.

Art IV

Grade Level: 12

Credit: 1

Prerequisite: Art III

Length: Year

Course Number: 0023

Fee: \$30.00

The fourth-year course is for students interested in pursuing a career in art. Portfolio preparation will be stressed as well as preparation of entries in various contests and exhibitions. An advanced approach to previously studied media and techniques is intended to develop individual style. Art criticism of professional and personal work will be studied. Journals/sketchbooks will be kept. The class fee will be used to buy art materials/supplies for the projects you will take home.

Crafts

Grade Level: 10,11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0040

Fee: \$35.00

Crafts are often thought of as useful objects that an artist made beautiful. The art you will create in this class is intended to be used and enjoyed, rather than hung on a wall. Participants will explore a variety of media related to crafts. Depending on the class size and students' interest, activities may include reed basket making, coiled basket making, fabric painting and ceramics. The class fee will be used to buy art materials/supplies for the projects you will take home.

Building & Design 1

Grade Level: 11, 12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0045

Fee: \$35.00

This course will be an interdisciplinary class that combines fine art elements, design principles and building techniques. The class will be team taught and alternate its time in the industrial arts room learning basic woodworking and electrical skills and the art room where students will design and finish projects

using a variety of art materials. The class will offer many opportunities for students to envision and build their own creations with help from the teachers. Students with a strong interest in building and designing will be most successful. The class fee will be used to buy art materials/supplies for the projects you will take home.

Building & Design 2

Grade Level: 11, 12

Credit: 0.5

Prerequisite: Building & Design 1

Length: Semester

Course Number: 0046

Fee: \$35.00

Students will continue to create with the materials, tools and methods available in the Art and Shop rooms and is a continuation of the skills learned in Building & Design 1. Students who enjoy working with their hands, developing ideas and improving precision and craftsmanship will especially enjoy this class. Several projects will be determined individually by students. The class fee will be used to buy art materials/supplies for the projects you will take home.

Digital Photography I

Grade Level: 9,10,11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0031

Fee: None

This is an introductory class to the world of digital images and how they are used and created. Students will be expected to take photos both in and outside of class on their own.. We will use some of the latest online editing programs and apps to learn how to edit a photo into a quality digital image. We will cover topics such as composition, rule of thirds, focus, clarity and framing. Students will critique the work of others in the class as well as self evaluate their own photos.

This class will require students to have a smartphone for taking photos. (Apple or Android)

Digital Photography II

Grade Level: 9,10,11,12

Credit: 0.5

Prerequisite: Successful completion of Digital Photography I with a 70% C- or above

Length: Semester

Course Number: 0032

Fee: \$15.00

This class will expand on the photo editing techniques learned in Digital Photography I. Students will be responsible to take photos on their own outside of class. They will have the opportunity to independently explore a variety of techniques to enhance their photos. Students will create a digital portfolio of their images. Self-guided study and guided instruction will both be part of the coursework. **This class will require students to have a smartphone for taking photos. (Apple or Android)**

Computer Generated Art

Grade Level: 9, 10, 11, 12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0034

Fee: None

This course is a design course in evaluating and creating digital art. Students will

learn how to manipulate technology to create graphics, photos, and other forms of media. Students will explore practical as well as artistic ways to express their ideas with digital media. Students will explore the ways in which AI can be used in the Art & Design world. They will also look at the pros and cons of using AI to create Art.

Basic Sewing

Grade Level: 10, 11, 12

Credit: 0.5

Prerequisite: Art I

Length: Semester

Course Number: 0042

Fee: \$20.00

Students will work with the sewing machine to explore sewing techniques to create a variety of projects such as a lined zipper bag, a bucket hat, and a set of drawstring bags. We will also learn several hand sewing techniques like hemming pants and mending clothes and backpacks. We may explore stuffed animals like plushies and sock monkeys. Students will also learn traditional embroidery techniques to create art and add visual elements to clothing. Students will have time at the end of the course to pursue a project or series of projects that they design themselves. ***This class would have a limit of 10 students due to the availability of equipment.***

Fiber Arts

Grade Level: 9, 10, 11, 12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0043

Fee: \$15.00

Students will explore a range of fiber and paper crafts in this relaxing and self-directed class. With an emphasis on craft and production, students will learn basic techniques in origami, paper folding, quilling, and paper flowers. Moving into yarn and fiber arts, students will learn to crochet and knit running stitches and may move onto small 3D objects like plushies. Students will have the opportunity to try their hands at a weaving project and learn about the many approaches to knitted and woven apparel.

Worldwide French Arts - But in English

Grade Level: 9, 10, 11, 12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0416

Fee: None

Are you interested in French food, music, dance, painting, sculpture, film, architecture? This course will take you to France and Francophone regions of the world to see how monuments, clothing, foods, and many other parts of daily life have been influenced by the renowned style of the French people throughout history. Surprise yourself with new flavors, new views of the world. From crepes to snails, the Caribbean to Washington D.C., discover some new and exciting

facts about French arts. (Do you know why our nation's capital city is laid out the way it is?)

Guidance Department

College & Career Planning

Grade Level: 10,11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0600

Fee: None

Students will explore a variety of issues involving career and college options, beginning with a self-inventory of strengths and weaknesses. They will look at job outlooks and research career paths that others have taken. Students will hear from a variety of speakers, visit a college, tour a manufacturing facility, practice public speaking, set up and travel to individual job shadowing experiences, participate in mock interviews, and write their resumes. The final unit of the class will allow students to focus on their next steps of researching jobs, career training, applying for colleges, etc. Students will need to be organized, motivated and hard-working.

James A. Garfield Internship Program

Grade Level: 11,12

Credit: 0.25 per 30 hours

Prerequisite: Must be on track with credits

Length: Semester

Course Number: 0603

Fee: None

This program is designed for students interested in gaining entry level work experience while earning high school credit. Grade will be pass or fail. Students will be enrolled in all courses required for graduation and have the ability to earn up to 3 additional elective credits. The type and scope of work must be approved by staff and assistance in gaining employment is offered. A flexible schedule option is available for students to depart school early for work on a case by case basis and can be revoked if attendance or grades become poor. Students can only add the course at the beginning of Fall and Spring semester, unless they have met with their counselor to make arrangements.

Creating Exceptional Character

Grade Level: 9, 10, 11, 12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0610

Fee: None

The Creating Exceptional Character Workshop is an elective course for students interested in learning about people with disabilities. Within a special education classroom setting, students model positive classroom conduct for special education students for improvements in problem solving, academics, communication skills, socialization, and behavior. Students complete guided instruction learning the history and laws of special education, characteristics of people with disabilities, career opportunities in the field, and much more. Projects and assignments provide an introduction to people with disabilities. This course promotes acceptance of all students at James A. Garfield High School.

CPSC 17100: INTRO TO COMPUTER SCI-W/LAB:MM

Grade Level: 9,10,11,12

Prerequisite: None

Course Number: 0115

Credit: 1.0

Length: Semester

Fee: None

The introduction to the computer science discipline which establishes a scientific foundation for a variety of topics, including computer programming, computer design, information processing, the algorithmic solution of problems, and the study of the algorithmic process itself. Students must also register for a lab.

English Department

English 9

Grade Level: 9

Prerequisite: None

Course Number: 0305

Credit: 1

Length: Year

Fee: None

This course provides tools for communication acquired through inquiry and research. The students will use technology, research skills, and study skills to develop their critical thinking, speaking, and writing ability. They will learn strategies that enhance their independent reading and writing. Students will discover different genres, and how to write to accomplish different objectives.

English 10

Grade Level: 10

Prerequisite: None

Course Number: 0320

Credit: 1

Length: Year

Fee: None

This course provides students an opportunity to develop their writing skills as they study a variety of genres of literature including short stories, poetry, drama, and Holocaust literature. A major emphasis is placed on the writing process and students will consistently work toward becoming competent and confident writers. Further, sophomores engage in a study and understanding of grammar to the degree that it impacts their writing and their study of foreign languages.

English 10 Advanced

Grade Level: 9, 10

Prerequisite: Successful completion of English 9A or teacher recommendation

Course Number: 0321

Length: Year

Fee: None

Credit: 1

This course provides students an opportunity to develop their writing skills as they study a variety of genres of literature including short stories, poetry, drama, and Holocaust literature. This class will have an emphasis on research and analytic writing. Students will also prepare and deliver an informative speech.

English 11

Grade Level: 10, 11

Credit: 1

Prerequisite: None

Length: Year

Course Number: 0335

Fee: None

The eleventh grade course concentrates on the new Common Core academic standards which focus on analytical reading and formal writing skills needed for college. Students will read works of Literature from a number of genres and respond to them through a variety of writing techniques. A research project will be added in the second semester. Oral presentations will be a key component in the curricula. Skill Development for the SAT and ACT will be studied.

English 11 Advanced

Grade Level: 11

Credit: 1

Prerequisite: Successful completion of English 10A or teacher recommendation

Course Number: 0336

Length: Year

Fee: \$10.00

This course is a college preparatory course and focuses on many of the same elements as English 11 and is aligned with the Common Core academic standards concentrating on the analytical reading and formal writing skills needed for college. This course follows an accelerated pace, has an emphasis on independent reading, and is writing intensive. Students will read a varied array of literary works and respond to each through a plethora of writing techniques. Many writing assignments will involve elements of research. Oral presentations will be a key component in the curricula. Skill Development for the SAT and ACT will be studied.

English 12

Grade Level: 12

Credit: 1

Prerequisite: None

Length: Year

Course Number: 0340

Fee: None

The twelfth grade college preparatory course focuses on the new Common Core academic standards focusing on literature and composition. This course draws upon world classic and modern literature through the short story, novel, drama, and poetry. Composition focuses on various narrative styles as well as an emphasis on persuasive and expository writing. The students will focus on an in-depth evaluation and practice with five of the dominant literary criticism theories using the course literature. The student is expected to become an independent reader and writer throughout the course of the year.

Advanced Placement English

Grade Level: 11, 12

Credit: 1

Prerequisite: None

Course Number: 0350

Length: Year

Exam Fee: \$90.00

This course is designed for academically talented seniors. The curriculum of AP English is enriched and the course prepares the student for the Advanced Placement English test administered each spring. Emphasis is placed on intensive reading, essay writing, and the interpretation of literature and poetry. Students taking this course will be expected to read various novels over the

summer and complete reader logs in order to be prepared for class discussions and lectures on the first day of class. Students must perform well on the Advanced Placement exam in order to receive college credit.

Creative Writing

Grade Level: 10,11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0361

Fee: None

This course engages students in a wide variety of exercises to enhance students' abilities in expressing themselves creatively through writing. Students will assess and reflect upon the writing process, and read various examples of creative writing. Students will read and write in a vast number of realms such as persuasion, reflection, synthesis and interpretation. Students will also learn techniques for evaluating writing and will use these techniques to provide positive assessments for fellow class members.

Mythology A

Grade Level: 11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0364

Fee: None

This course will explore the myths and legends of ancient and past cultures of Greece, Rome, and Eastern Europe. Students will analyze similarities and differences in these civilizations' beliefs, customs, and traditions, as well as focus on the influence and effects that folklore of these societies continues to have on modern day culture.

Mythology Z

Grade Level: 11, 12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0365

Fee: None

This course will explore the myths and legends of ancient and past cultures of Scandinavia, Africa, and the Americas. Students will analyze similarities and differences in these civilizations' beliefs, customs, and traditions, as well as focus on the influence and effects that folklore of these societies continues to have on modern day culture.

Writing in the Liberal Arts (Dual Credit)

Grade Level: 11,12

Credit: 1.0

Prerequisite: Acceptance to Hiram College

Length: Year

Course Number: 0368

Fee: None

Hiram College requirements: DC students should anticipate a minimum of 3-4 papers, totaling 20-25 pages of formal writing and research. Further, DC students will be responsible for approximately 150 pages of reading per week. Writing in the Liberal Arts (WRLA) provides an exposure to college-level intellectual inquiry through an engagement with interesting and important ideas. Each course is centered on some idea, theme, or topic fundamental to understanding and living. The enduring question for this class is **What is Equality?** Through the careful

and considerate examination of the course topic, the student will learn the following:

- Ideas have complexity and generality
- Ideas are connected to one another, and depend on and illuminate one another: knowledge is interdisciplinary in nature
- Much goes into understanding something well: students need to develop the capacity of critical inquiry
- Histories and traditions of systematic inquiry can guide (and obscure) insight and understanding
- Reflective learning integrates these ideas into various spheres of students' own lives—coursework, career, calling character, and community

Health / Physical Education

Physical Education I

Grade Level: 9, 10, 11, 12

Credit: 0.25 Prerequisite: None

Length: Semester

Course Number: 0480

Fee: None

Physical Education I is a required course for all graduation. The curriculum will consist of, but is not limited to: softball, basketball, volleyball, physical fitness, soccer and other team sports and activities. The purpose of this course is to help students develop recreational skills which will assist them in making wise use of leisure time and to develop lifelong healthy habits. ***A Phys. Ed. waiver may be earned by participating in sports, band or cheerleading. See page 4.***

Physical Education II

Grade Level: 10,11,12

Credit: 0.25

Prerequisite: Physical Education I

Length: Semester

Course Number: 0485

Fee: None

A required course where students will be involved with a lifetime sports curriculum such as golf, bowling, physical fitness, etc. The purpose of this course is to help students develop recreational skills which will assist them in making wise use of leisure time. ***A Phys. Ed. waiver may be earned by participating in sports, band or cheerleading. See page 4.***

Health

Grade Level: 10,11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0490

Fee: None

This course is a requirement for graduation and should be taken by all sophomores. It deals with the social issues of health and well-being including a study of wellness, physical and emotional health, safety, chemical dependency, sexuality, and choosing medical care, nutrition, fitness, basic anatomy/systems, and abstinence based sexuality. Course includes CPR certification, organ donor information, healthy relationships, and domestic violence identification.

Personal Fitness

Grade Level: 11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0495

Fee: None

This class is designed to help students participate and plan a healthy lifestyle.

This class will include health topics, different forms of exercise, nutrition, and overall mental and physical wellbeing. The class will be tailored depending on the wants/needs of the students in the class. **This is an elective credit only, not a PE credit.**

Body & Mind Fusion

Grade Level: 9, 10, 11, 12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0497

Fee: None

This course consists of ways to reduce anxiety. Students find ways like yoga, pilates, exercise, zumba, meditation, drawings, coloring to reduce stress in their daily lives. **This is a high demand class. Preference will be given to upperclassmen and on a case-by-case basis. This is an elective credit only, not a PE credit.**

Industrial Arts Department

Industrial Arts I

Grade Level: 9,10,11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0705

Fee: \$10.00 (plus wood)

This Industrial Arts I course consists of woodworking, wood identification, and planning/constructing a variety of projects. You will become familiar with the safe operation of all the power and hand tools that are typically used in the woodworking industry. You will also be introduced to a variety of wood types and their uses. We will also cover blueprint reading, tape measure reading, and project design.

Industrial Arts II

Grade Level: 10,11,12

Credit: 1

Prerequisite: Industrial Arts I

Length: Year

Course Number: 0710

Fee: \$20.00 (plus wood)

This Industrial Arts II course consists of an advanced study of the design, layout, planning and construction of a more complex variety of woodworking projects. It includes a more in depth knowledge of machining and machine processes as well as tool and machine set-up.

Industrial Arts III

Grade Level: 11,12

Credit: 1

Prerequisite: Industrial Arts II

Length: Year

Course Number: 0715

Fee: \$20.00 (plus wood)

This Industrial Arts III course is designed for students to take on more advanced, individual project work. Students will be able to plan, layout and construct projects of their choice using a variety of materials and techniques.

General Maintenance I

Grade Level: 9,10,11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0716

Fee: \$10.00

This course is a completely hands-on course designed to introduce students to the typical maintenance and repair of household systems and light construction. This includes surveying, concrete work, bricklaying, wall and floor framing, electrical, plumbing, drywall, insulation and roofing.

Building & Design 1

Grade Level: 9, 10, 11, 12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0045

Fee: \$35.00

This course will be an interdisciplinary class that combines fine art elements, design principles and building techniques. The class will be team taught and alternate its time in the industrial arts room learning basic woodworking and electrical skills and the art room where students will design and finish projects using a variety of art materials. The class will offer many opportunities for students to envision and build their own creations with help from the teachers. Students with a strong interest in building and designing will be most successful. The class fee will be used to buy art materials/supplies for the projects you will take home.

Building & Design 2

Grade Level: 9, 10, 11, 12

Credit: 0.5

Prerequisite: Building & Design 1

Length: Semester

Course Number: 0046

Fee: \$35.00

Students will continue to create with the materials, tools and methods available in the Art and Shop rooms and is a continuation of the skills learned in Building & Design 1. Students who enjoy working with their hands, developing ideas and improving precision and craftsmanship will especially enjoy this class. Several projects will be determined individually by students. The class fee will be used to buy art materials/supplies for the projects you will take home.

Mathematics Department

Algebra I

Grade Level: 8,9

Prerequisite: None

Course Number: 0765

Credit: 1

Length: Year

Fee: None

This course aims to deepen and extend student understanding built in previous courses by focusing on developing fluency with solving linear equations, inequalities, and systems. These skills are extended to solving quadratic equations, exploring linear, quadratic, and exponential functions graphically, numerically, symbolically, and as sequences, and by using regression techniques to analyze the fit of models to distributions of data. Lessons are structured for students to collaborate actively by working in study teams.

Key concepts addressed in this course are:

- Representations of linear, quadratic, and exponential relationships using graphs, tables, equations, and contexts.
- Symbolic manipulation of expressions in order to solve problems, such as factoring, distributing, multiplying polynomials, expanding exponential expressions, etc.
- Analysis of the slope of a line multiple ways, including graphically, numerically, contextually (as a rate of change), and algebraically.
- Solving equations and inequalities using a variety of strategies, including rewriting (such as factoring, distributing, or completing the square), undoing (such as extracting the square root or subtracting a term from both sides of an equation), and looking inside (such as determining the possible values of the argument of an absolute value expression).
- Solving systems of two equations and inequalities with two variables using a variety of strategies, both graphically and algebraically.
- Representations of arithmetic and geometric sequences, including tables, graphs, and explicit or recursive formulas.
- Use of exponential models to solve problems, and to compare to linear models.
- Investigation of a variety of functions including square root, cube root, absolute value, piecewise-defined, step, and simple inverse functions.
- Use of function notation.
- Statistical analysis of two-variable data, including determining regression lines, correlation coefficients, and creating residual plots.
- The differences between association and causation, and interpretation of correlation in context.
- Comparison of distributions of one-variable data.

A scientific calculator is mandatory. **A graphing calculator (TI-Nspire) is highly recommended.**

Geometry

Grade Level: 9,10

Prerequisite: Algebra I

Course Number: 0770

Credit: 1

Length: Year

Fee: None

This course emphasizes several big ideas in an integrated algebra/geometry context. The course is structured around problems and investigations that build spatial visualization skills, conceptual understanding of geometry topics, and an awareness of connections between different ideas. Students are encouraged to investigate, conjecture, and then prove to develop their reasoning skills. Lessons are structured for students to collaborate actively by working in study teams. The key concepts addressed in this course are:

- Transformations (reflection, rotation, translation, dilation) and symmetry
- Relationships between figures (such as similarity and congruence)
- Properties of plane figures (such as equal or perpendicular sides or diagonals)
- Measurements of plane figures (such as area, perimeter, and angle measure)
- Measurements of three-dimensional shapes (such as volume and surface area)
- Tools for analyzing and measuring shapes (such as the Pythagorean Theorem, trigonometric ratios, the Laws of Sines and Cosines, and coordinate geometry)
- Investigation and proof (having found patterns, students conjecture and prove)
- Geometric construction (with compass and straightedge)
- Algebra (with substantial review of writing and solving equations and graphing)
- Probability

A scientific calculator is mandatory. **A graphing calculator (TI-Nspire) is highly recommended.**

Geometry A

Grade Level: 9,10

Prerequisite: A grade of "B" or higher in Algebra 1 A and a performance level of "Proficient" or above.

Course Number: 0771

Length: Year

Fee: None

Accelerated Geometry – The depth and design of this course is intended to prepare students for the **Algebra IIA** curriculum emphasizing several big ideas in an integrated algebra/geometry context. The course is structured around problems and investigations that build spatial visualization skills, conceptual understanding of geometry topics, and an awareness of connections between different ideas. Students are encouraged to investigate, conjecture, and then prove to develop their reasoning skills. Lessons are structured for students to collaborate actively by working in study teams.

The key concepts addressed in this course are:

- Transformations (reflection, rotation, translation, dilation) and symmetry
- Relationships between figures (such as similarity and congruence)
- Properties of plane figures (such as equal or perpendicular sides or diagonals)
- Measurements of plane figures (such as area, perimeter, and angle measure)
- Measurements of three-dimensional shapes (such as volume and surface area)
- Tools for analyzing and measuring shapes (such as the Pythagorean Theorem, trigonometric ratios, the Laws of Sines and Cosines, and coordinate geometry)
- Investigation and proof (having found patterns, students conjecture and prove)
- Geometric construction (with compass and straightedge)
- Algebra (with substantial review of writing and solving equations and graphing)
- Probability

A scientific calculator is mandatory. **A graphing calculator (TI-Nspire) is highly recommended.**

Algebra II

Grade Level: 10,11

Credit: 1

Prerequisite: Algebra & Geometry

Length: Year

Course Number: 0780

Fee: None

Algebra II is the third course in a five-year sequence of rigorous college preparatory mathematics courses that starts with Algebra I and continues through Calculus. It aims to apply and extend what students have learned in previous courses by focusing on finding connections between multiple representations of functions, transformations of different function families, finding zeros of polynomials and connecting them to graphs and equations of polynomials, modeling periodic phenomena with trigonometry, and understanding the role of randomness and the normal distribution in making statistical conclusions.

Key concepts addressed in this course are:

- Visualize, express, interpret and describe, and graph functions (and their inverses, in many cases). Given a graph, students will be able to represent the function with an equation, and vice-versa, and transform the graph, including the following function families: absolute value, exponential, linear, logarithmic, piecewise-defined, polynomial, quadratic, square root, trigonometric
- Use of variables and functions to represent relationships given in tables, graphs, situations, and geometric diagrams, and recognize the connections among these multiple representations.
- Application of multiple algebraic representations to model and solve problems presented as real world situations or simulations.

- Solving linear or quadratic equations in one variable, systems of equations in two variables, and linear systems of equations in three or more variables, including solving with graphical methods.
- Use of algebra to rewrite complicated algebraic expressions and equations in more useful forms.
- Rewriting rational expressions and arithmetic operations on polynomials.
- The relationship between zeros and factors of polynomials.
- Operations with complex numbers, and solving quadratic equations with complex solutions.
- Modeling periodic phenomena with trigonometric functions.
- Solving trigonometric equations and proving trigonometric identities.
- Calculating the sums of arithmetic and geometric series, including infinite geometric series.
- Concepts of randomness and bias in survey design and interpretation of the results.
- Use of a normal distribution to model outcomes and to make inferences as appropriate.
- Use of computers to simulate and determine complex probabilities.
- Use of margin of error and sample-to-sample variability to evaluate statistical decisions.
- Understand logarithms and their inverse relationship with exponentials.
- Use logarithms to solve exponential equations.

A graphing calculator is a mandatory component of the course content standards (TI-Nspire is recommended).

Algebra IIA

Grade Level: 10, 11

Credit: 1

Prerequisite: A grade of "B" or higher in Geometry and a performance level of "Proficient" or above and/or a teacher recommendation.

Course Number: 0782

Length: Year

Fee: None

Accelerated Algebra II - The depth and design of this course is intended to prepare students for the **Dual Credit Pre-Calculus** curriculum.

Algebra IIA is the third course in a five-year sequence of rigorous college preparatory mathematics courses that starts with Algebra I and continues through Calculus. It aims to apply and extend what students have learned in previous courses by focusing on finding connections between multiple representations of functions, transformations of different function families, finding zeros of polynomials and connecting them to graphs and equations of polynomials, modeling periodic phenomena with trigonometry, and understanding the role of randomness and the normal distribution in making statistical conclusions.

Key concepts addressed in this course are:

- Visualize, express, interpret and describe, and graph functions (and their inverses, in many cases). Given a graph, students will be able to represent the function with an equation, and vice-versa, and transform the

graph, including the following function families: absolute value, exponential, linear, logarithmic, piecewise-defined, polynomial, quadratic, square root, trigonometric

- Use of variables and functions to represent relationships given in tables, graphs, situations, and geometric diagrams, and recognize the connections among these multiple representations.
- Application of multiple algebraic representations to model and solve problems presented as real world situations or simulations.
- Solving linear or quadratic equations in one variable, systems of equations in two variables, and linear systems of equations in three or more variables, including solving with graphical methods.
- Use of algebra to rewrite complicated algebraic expressions and equations in more useful forms.
- Rewriting rational expressions and arithmetic operations on polynomials.
- The relationship between zeros and factors of polynomials.
- Operations with complex numbers, and solving quadratic equations with complex solutions.
- Modeling periodic phenomena with trigonometric functions.
- Solving trigonometric equations and proving trigonometric identities.
- Calculating the sums of arithmetic and geometric series, including infinite geometric series.
- Concepts of randomness and bias in survey design and interpretation of the results.
- Use of a normal distribution to model outcomes and to make inferences as appropriate.
- Use of computers to simulate and determine complex probabilities.
- Use of margin of error and sample-to-sample variability to evaluate statistical decisions.
- Understand logarithms and their inverse relationship with exponentials.
- Use logarithms to solve exponential equations.

A graphing calculator is a mandatory component of the course content standards (TI-Nspire recommended).

Mathematics Modeling and Reasoning

Grade Level: 10 - 12

Credit: 1

Prerequisite: Algebra I and Geometry

Course Number: 1524

Length: Year

Fee:None

Critical thinking and reasoning are the primary objectives and outcomes of this advanced quantitative reasoning course. It includes the application of mathematical skills including algebraic methods to the analysis and interpretation of quantitative information (numbers in context) in real-world situations to make decisions that are relevant to daily life. Additionally, the course emphasizes interpretation, precision, representation, calculation, analysis/synthesis, use of assumptions and communication through student presentations and writing. Students combine problem solving with modeling to analyze real-life situations and devise solution strategies. These habits and skills cut across disciplines, promote perseverance, and provide a gateway into successful postsecondary

education and a variety of careers. This course will prepare students to enter directly into a credit-bearing math course at the postsecondary level or to go directly into a career field. Learning is structured for students to actively collaborate by working in teams and will include hands-on, collaborative work within real-world contexts.

Data Science Foundations

Grade Level: 10 - 12

Credit: 1

Prerequisite: Algebra I and Geometry

Course Number: 1525

Length: Year

Fee: None

Acquiring foundational knowledge in data science and basic programming skills are the primary objectives and outcomes of the Data Science Foundations course. It includes the use of mathematics, statistics and computer science methods in the analysis and interpretation of data in all forms. In the context of real-world situations students will make predictions and decisions using data. Students combine problem solving and reasoning skills with statistics and modeling to analyze big data to find patterns and communicate meaning in data. Ohio's Learning Standards related to Statistics and Probability relevant to data science are taught along with the data demands of good citizenship in the 21st century. These habits and skills cut across disciplines, promote perseverance, and provide a gateway into successful postsecondary education and a variety of careers. Data Science Foundations is designed to be a hands-on course that promotes reasoning using the standards for mathematical practice. Learning is structured for students to actively collaborate by working in teams and will include hands-on, collaborative work within real-world contexts.

PreCalculus (Math 19700)(Dual Credit)

Grade Level: 11,12

Credit: 1

Prerequisite: Algebra IIA with a minimum of a B average or Algebra II with an A average and Hiram College Mathematics Placement Test – Algebra 16

Course Number: 0791

Length: Year

Fee: None

The depth and design of this course is intended to prepare students for the **Dual Credit Calculus (MATH 198)** curriculum. The *Precalculus* course includes an introduction to calculus with functions, graphs, limits, area under a curve, and rates of change. On a daily basis, students work collaboratively with others as they use problem-solving strategies, complete investigations, gather evidence, critically analyze results, and communicate clear and effective arguments while justifying their thinking.

The course is well balanced among procedural fluency (algorithms and basic skills), deep conceptual understanding, strategic competence (problem solving), and adaptive reasoning (application and extension). The course embeds the Standards for Mathematical Practice as an integral part of each lesson in the course. With the emergence of new technology, many lessons have moved beyond a traditional handheld device and are written with Desmos eTools as an integral component. The curriculum contains several key labs and hands-on

activities throughout the course to introduce and connect concepts, with an emphasis on modeling.

A graphing calculator is mandatory (TI-Nspire recommended).

Calc I:MM (Math 19800)(Dual Credit)

Grade Level: 12

Credit: 1

Prerequisite: Dual Credit Pre-Calculus (MATH 197)

Hiram College Mathematics Placement Test – Algebra 16 and Math Placement-Trig/Function 9 and Math Placement-Calc Readiness 13

Course Number: 0792

Length: Semester

Fee: None

The differential calculus. Topics include limits, continuity, differentiation of algebraic and transcendental functions, maxima/minima and other applications of the derivative. This course fulfills the Modeling Methods requirement.

The goals for the course include:

1. Developing an understanding of the fundamental concepts and techniques of differential and integral calculus.
2. Understanding the importance of differential and integral calculus in a variety of applications.
3. Developing the ability to read mathematics with understanding and to write mathematics understandably.

A graphing calculator is mandatory (TI-Nspire recommended). This course, taken in tandem with Calculus 2, also follows the syllabus for the Advanced Placement Calculus Exam (AB/BC). Students may opt to take the AP Exam. The cost of the exam is approximately \$88.00.

Statistics:MM (Math 10800)(Dual Credit)

Grade Level: 11,12

Credit: 1

Prerequisite: Algebra II or Data Science Foundations with a minimum of a B average and Hiram College Mathematics Placement Test - Algebra 12

Course Number: 0794

Length: Semester

Fee: None

A course designed for students from different disciplines who desire an introduction to statistical reasoning. Topics include collecting and summarizing data, concepts of randomness and sampling, statistical inference and reasoning, correlation and regression.

The purpose of this course is for students to learn some basic statistical concepts and methodology.

The goals for students in the course include:

1. Developing an understanding of the fundamental concepts in statistics and the applications.
2. Developing data analysis, report writing and critical thinking skills.
3. Developing the ability to use the modern computer technology in basic model building, data analysis and decision making.

Extensive use of Microsoft Excel, PowerPoint, Word (or comparable applications) and a graphing calculator will be applicable throughout the course. **A graphing calculator is a mandatory component of the course content standards (TI-Nspire is recommended).**

Music Department

Instrumental Music

Grade Level: 9,10,11,12

Credit: 1

Prerequisite: Successful completion of GMS Band or audition with director

Course Number: 0805

Length: Year

Fee: \$45.00

The high school band performs during the fall as the "Marching Pride".

Mandatory practices prepare for the season's performances to include band shows, parades, and football games. During the winter and spring months, students perform in a concert band showcasing their musicianship at concerts and contests. Further performance opportunities are available to our band members, such as solo and ensemble contest, jazz band, or other special ensembles. Because our students take great pride in fine performances, attendance is a must. Please see the directors if you have any questions. ***A physical education waiver may be earned by participating in sports, band or cheerleading. See page 4.***

Chorus

Grade Level: 9,10,11,12

Credit: 1

Prerequisite: None

Length: Year

Course Number: 0810

Fee: none

The high school choir, formally known as the Concert Choir, is focused on making a high level of vocal music to share with our school and community through a variety of performances. Attendance at several weekend and evening programs is required. This course consists of practice of choral music to continue the development of vocal technique, music reading/theory skills, rehearsal/performance skills, and self-confidence through music. Each year we strive to perform music in several languages and styles. The choir is welcoming to all varieties of skill levels. No formal training is required.

Students must wear a choir uniform for events. Please see the director for more information on uniforms.

Science Department

Physical Science

Grade Level: 8, 9

Credit: 1

Prerequisite: None

Length: Year

Course Number: 0855

Fee: None

Physical Science is an introductory-level course that is required for all incoming students. It will introduce students to basic key concepts in Chemistry and Physics that provide a foundation for further study in other science courses. This course covers the Physical Science objectives required by the Ohio Department of Education.

Biology I

Grade Level: 9, 10

Credit: 1

Prerequisite: Physical Science

Length: Year

Course Number: 0860

Fee: None

This course covers all biological fields including cell functions, animal functions, plant functions, genetics, and evolution. This class is required to meet state requirements. This course covers the Life Science objectives required by the Ohio Department of Education. ***Biology I is required for Anatomy & Physiology and DC Biology.***

Chemistry

Grade Level: 10,11,12

Credit: 1

Prerequisite: B or better in Algebra I, 10th graders-teacher recommendation

Course Number: 0870

Length: Year

Fee: \$26.00

This course is recommended for students in the college preparatory curriculum. Emphasis is placed on atomic structure, chemical reactions, calculations involving reactants & products, gases, nuclear chemistry, solutions, acids & bases, and thermodynamics. Fee includes the price of goggles.

Intro to Organic & Biochemistry

Grade Level: 11,12

Credit: 1

Prerequisite: Minimum of a B in Chemistry and Biology and teacher recommendation

Course Number: 0872

Length: Year

Fee: \$25.00

This course is designed as a general introduction to Organic and Biochemistry. Topics include Lewis structures, physical properties, basic nomenclature, and chemical reactions of the major classes of organic compounds (alkenes, alkanes, esters, etc.) The course applies organic chemistry to biochemicals with an emphasis on health-related applications. Topics include amino acids and proteins, enzymes, esters, carbohydrates, lipids, nucleic acids, vitamins and coenzymes, and basic metabolism. This course is recommended for anyone interested in pursuing a career in a medical or science related field.

Environmental Biology

Grade Level: 10, 11,12

Prerequisite: Biology I

Course Number: 0874

Credit: 1

Length: Year

Fee: \$15.00

This is an elective course for students that are looking for a third science credit. The primary focus is on how life is sustained in different ecosystems. This course will examine a wide range of objectives covering: tropical biology, water ecology, biodiversity, pollution, ecology, biomes, energy, and conservation. Most assessments will be based on projects, research, and labs.

Anatomy & Physiology

Grade Level: 10, 11,12

Prerequisite: Biology I

Course Number: 0875

Credit: 1

Length: Year

Fee: \$30.00

This course is designed to emphasize anatomy and physiology. The course will cover all of the human organ systems. The course is designed to prepare students who are interested in medical fields. It is a rigorous course to prepare students for college coursework. The cat dissection is a mandatory component of this course.

Physics

Grade Level: 11,12

Prerequisite: B or better in Alg 1 & 2 and enrollment in Dual Credit Math or Trig

Course Number: 0880

Length: Year

Fee: \$12.50

Credit: 1

This course is recommended for students in the college preparatory curriculum. Emphasis is placed on motion, forces, momentum, heat, electricity, energy, sound, and light. The course fee includes a carbonless lab notebook.

Intro Bio I:w/lab (Biol 15100)(Dual Credit)

Grade Level: 11,12

Prerequisite: Chemistry and Biology I

Course Number: 0881

Credit: 1

Length: Semester

Fee: None

This course is offered in conjunction with Hiram College. It is an introduction to the scientific process as exemplified by the study of ecology and evolution. The scientific process will be used to understand how scientists make progress in understanding nature works and how science differs from other ways of human understanding. Ecology, the sum of the interactions of organisms with their living and nonliving environment, and evolution, how organisms change and adapt to their surroundings over time, will be explored using examples from all kinds of organisms. Laboratory experience will include many opportunities to work on various aspects of the scientific process (hypothesis generation, data gathering and analysis, hypothesis testing) through a focus on the diversity of life. There is a mandatory summer reading.

Intro Bio II:w/lab (Biol 15200)(Dual Credit)

Grade Level: 11,12

Credit: 1

Prerequisite: Dual Credit Biology I

Length: Semester

Course Number: 0882

Fee: None

This course is offered in conjunction with Hiram College. The purpose of this course is to explore the myriad ways organisms reproduce, develop, acquire nutrients and energy, manage waste, respond to the environment, and exhibit distinctive adaptations that have resulted from evolution. One recurring key concept is the conservative nature of all life's processes in all organisms. This is evident in the similarities found in primary energy metabolism (i.e., cellular respiration and photosynthesis), other aspects of metabolism (biomolecular building blocks and the macromolecules they form), reproduction, protein synthesis, energy flow and nutrient cycling, and managing/regulating water intake and retention. All organisms also detect and respond to their environment on many levels (organismal, organ, cellular, and subcellular), and biologists find both similarities and differences among all of life in these respects.

Geology

Grade Level: 10, 11,12

Credit: 1

Prerequisite: Biology I

Length: Year

Course Number: 0886

Fee: None

Geology is an elective course for students needing a third science credit. This course is aligned with the State of Ohio's standards for a Core Geology class. In Geology, students will be introduced to key concepts and theories about Earth while incorporating basic Biology, Chemistry and Physics components. The areas of focus include: Solar system and Earth's beginnings, geologic time and the rise and fall of dinosaurs, rock and minerals formation, and natural geologic processes that form earthquakes, volcanoes, and glaciers. Lab activities will include opportunities to explore how volcanoes and glaciers form and how they transform the Earth.

Social Studies Department

World History

Grade Level: 9

Credit: 1

Prerequisite: None

Length: Year

Course Number: 0504

Fee: None

World History 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. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

AP World History: Modern

Grade Level: 9, 10, 11, 12

Credit: 1

Prerequisite: Selection process

Length: Year

Course Number: 0511

Exam Fee: \$90.00

Book Fee: \$25.00

This is a full year 1 credit class that allows students receiving a 3,4 or 5 on the AP exam to earn college credit. In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation (College Board). **Fee of \$25.00 for additional AMSCO Text.**

U.S. History

Grade Level: 10

Credit: 1

Prerequisite: None

Length: Year

Course Number: 0505

Fee: None

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

AP U.S. History

Grade Level: 10

Credit: 1

Prerequisite: B or better in World History Advanced or an A in World History

Course Number: 0506

Length: Year

Exam Fee: \$88.00

Book Fee: \$25.00

Advanced Placement U.S. History may be taken to meet the graduation requirement and in lieu of the regular American History course. It is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in American History. This program prepares students for college courses by making demands upon them equivalent to those of a full year introductory college course. Students should be well above average in reading and writing abilities. Students must perform well on the Advanced Placement exam in order to receive college credit. **Fee of \$25.00 for additional AMSCO Text.**

Psychology

Grade Level: 10, 11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0520

Fee: None

This is an upperclassmen social studies elective to help toward graduation requirements. The course involves the study of human behavior and the mind. Students will explore topics like perception, intelligence, learning, personality and mental disorders. The aim of the class is to prepare upperclassmen for a 100 level college psychology class.

Sociology

Grade Level: 9, 10, 11, 12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 1217

Fee: None

This is a social studies elective to help toward graduation requirements. The course involves the study of society and the interaction of people. Students will explore topics like culture, diversity, socialization, deviance, and racism. The aim of the class is to prepare upperclassmen for a 100 level college sociology class.

U.S. Government

Grade Level: 11

Credit: 1.0

Prerequisite: None

Length: Year

Course Number: 0525

Fee: None

How the American people govern themselves at national, state and local levels of government is the basis for this course. Students can impact issues addressed by local governments through service learning and senior projects. This course will also explore the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants.

AP U.S. Government

Grade Level: 11

Credit: 1

Prerequisite: B or better in AP US History or an A in US History

Course Number: 0528

Length: Year

Exam Fee: \$90.00

Book Fee \$25.00

This course follows the syllabus for the Advanced Placement American Government and Politics Exam. Students will study the constitutional foundations of the United States, the branches of government, the bureaucracy, and the development of public policy, civil liberties and civil rights, political theory, development of political parties and public policy. Students must perform well on the Advanced Placement exam in order to receive college credit. **Fee of \$25.00 for additional AMSCO Text.**

Personal Financial Literacy

Grade Level: 11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0530

Fee: None

This course explores the fundamentals that guide individuals and nations as they

make choices about how to use limited resources to satisfy their wants. More specifically, it examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security. **Graduation requirement beginning with the Class of 2026.**

Economics

Grade Level: 10, 11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0531

Fee: None

This course is a semester-long elective to fulfill ½ credit toward graduation requirements that will explore both macro and micro economic principles, laws of supply and demand, individual decision making, comparative economic systems, and factors that impact our economy. Students will gain an understanding of how to think as an economist as well as analyze economic policies. Real world situations will be utilized to demonstrate economic fundamentals.

Current Events

Grade Level: 10, 11,12

Credit: 0.5

Prerequisite: None

Length: Semester

Course Number: 0535

Fee: None

The dynamics of global interactions among nations and regions present issues that affect all humanity. These dynamics include: competing beliefs and goals; methods of engagement; evolution of technology and its implementation; and conflict and cooperation. Contemporary issues have political, economical, historic, and geographic components. Approaches to addressing global and regional issues reflect historical influences and multiple perspectives. Students can impact global issues through service learning, senior projects and debates.

World Languages Department

French I

Grade Level: 8, 9,10,11,12

Credit: 1

Prerequisite: C or better in Language Arts or teacher recommendation

Course Number: 0405

Length: Year

Fee: None

In Level I, students develop skills in listening, speaking, reading, and writing. As much as possible, students are immersed in French as they experience language patterns, phonetics, and culture through activities involving music, art, role-playing, foods, and more. College preparatory course content.

French II

Grade Level: 9,10,11,12

Credit: 1

Prerequisite: French I

Length: Year

Course Number: 0410

Fee: None

In Level II, students will continue to develop and strengthen their skills in listening, speaking, reading, and writing with emphasis on increasing vocabulary and grammar skills. The focus is still on immersing students in French as they

become more proficient with the language. Classroom experiences are similar to French I with more emphasis on improving ability to use French in everyday situations through music, art, film, role-playing, foods, and more. College preparatory course content.

French III (Introductory French 101)(Dual Credit)

Grade Level: 10, 11,12

Credit: 1

Prerequisite: French II

Length: Year

Course Number: 0415

Fee: None

In Level III, students continue to grow in ability using all four language skills—listening, speaking, reading, and writing. Oral and written projects in class may be in the form of recorded exercises, group and pair work, role plays, discussions, interviews, and videos. Written compositions and projects include prewriting, writing, and rewriting steps. Course content and syllabus follow those for the first semester of Introductory French through Hiram College. Required textbook. French/English dictionary required.

French IV (Introductory French 102)(Dual Credit)

Grade Level: 11, 12

Credit: 1

Prerequisite: French III

Length: Year

Course Number: 0420

Fee: None

Level IV students continue to grow in ability using all four language skills—listening, speaking, reading, and writing. Oral and written projects in class include recorded exercises, group and pair work, role plays, discussions, interviews, and videos. Written compositions and projects include prewriting, writing, and rewriting steps. In addition to reading level-appropriate texts, students will practice oral presentation skills. Course content and syllabus follow those for the second semester of Introductory French through Hiram College. Required textbook. French/English dictionary required.

Spanish I

Grade Level: 8, 9,10,11,12

Credit: 1

Prerequisite: C or better in Language Arts or teacher recommendation

Course Number: 0425

Length: Year

Fee: None

Students develop skills in communicating in Spanish through listening, grammar and vocabulary usage, speaking, reading, and writing Spanish. The course also includes an introduction to the study of Spanish-American cultures (food, art, music, and social customs and films). This course is recommended for college preparatory curriculum.

Spanish II

Grade Level: 9, 10,11,12

Credit: 1

Prerequisite: Spanish I

Length: Year

Course Number: 0430

Fee: None

Level II students continue to develop skills in communicating in Spanish through listening, grammar, vocabulary usage and discussions on culture. The study of Spanish/American Culture which includes food, art, holidays, geography, history

and customs will continue. This course is recommended for college preparatory curriculum.

Spanish III

Grade Level: 10, 11,12

Credit: 1

Prerequisite: Spanish II

Length: Year

Course Number: 0435

Fee: None

Level III continues to incorporate speaking, reading and writing in Spanish. Students learn a more advanced vocabulary and idioms through selected reading materials from Spanish-American literature. A Spanish novel is read each semester. These selected materials offer insights into the life, thought, and civilization of Spanish-speaking people, and are enriched by cultural mini-lessons in Spanish (art, cuisine, currency, music, sports, etc.). This course is strongly recommended for college preparatory curriculum.

Spanish IV

Grade Level: 11, 12

Credit: 1

Prerequisite: Spanish III

Length: Year

Course Number: 0440

Fee: None

Level IV continues to incorporate speaking, reading, and writing in Spanish. Students learn a more advanced vocabulary and idioms through selected reading materials from Spanish literature. Authentic literary works will be read, discussed, translated and critiqued. Spanish customs, history, art, and culture will be stressed. This course is recommended for college preparatory curriculum.

****If a student does not meet a prerequisite, he/she can only be in the class with teacher or principal approval.***

High School Honors Diploma

Criterion	Ohio Diploma	Academic Honors Diploma	International Baccalaureate Honors Diploma	Career Tech Honors Diploma	STEM Honors Diploma (New)	Arts Honors Diploma (New)	Social Science & Civic Engagement Diploma (New)
English Math	4 units 4 units, must include one unit of algebra II or equivalent	4 units 4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units 4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units 4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units 5 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content ⁴	4 units 4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units 4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content
Science	3 units	4 units, including two units of advanced science ²	4 units, biology, chemistry, and at least one additional advanced science ²	4 units, including two units of advanced science ²	5 units, including two units of advanced science ²	3 units, including one unit of advanced science ²	3 units, including one unit of advanced science ²
Social Studies	3 units	4 units	4 units	4 units	3 units	3 units	5 units
World Languages	N/A	3 units of one world language, or no less than 2 units of two world languages studied	4 units minimum, with at least 2 units in each language studied	2 units of one world language studied	3 units of one world language, or no less than 2 units of two world languages studied	3 units of one world language, or no less than 2 units of two world languages studied	3 units of one world language, or no less than 2 units of two world languages studied
Fine Arts	2 Semesters	1 unit	1 unit	N/A	1 unit	4 units	1 unit
Electives	5 units	N/A	N/A	4 units of Career-Technical minimum ³	2 units with a focus in STEM courses	2 units with a focus in fine arts course work	3 units with a focus in social sciences and/or civics
GPA	N/A	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT WorkKeys¹	N/A	27 ACT/1280 SAT ⁶	27 ACT/1280 SAT ⁶	27 ACT/1280 SAT ⁷ /WorkKeys (6 Reading & 6 Math) ⁷	27 ACT/1280 SAT ⁶	27 ACT/1280 SAT ⁶	27 ACT/1280 SAT ⁶
Field Experience	N/A	N/A	Complete a field experience and document the experience in a portfolio specific to the student's area of focus ⁵	Complete a field experience and document the experience in a portfolio specific to the student's area of focus ⁵	Complete a field experience and document the experience in a portfolio specific to the student's area of focus ⁵	Complete a field experience and document the experience in a portfolio specific to the student's area of focus ⁵	Complete a field experience and document the experience in a portfolio specific to the student's area of focus ⁵
Portfolio	N/A	N/A	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts ⁸	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts ⁸	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts ⁸	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts ⁸	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts ⁸
Additional Assessments	N/A	N/A	N/A	Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent	N/A	N/A	N/A

NOTE: Items shaded in blue are proposed changes to the current honors diploma system, including the entire STEM, Arts, and Social Science and Civic Engagement Honors Diplomas

High School Honors Diploma

For the Academic, International Baccalaureate, and Career Tech Honors Diplomas, students who entered the ninth grade between July 1, 2013 and June 30, 2017 may choose to pursue the diploma by meeting the requirements of these criteria or the previous criteria. Students entering the ninth grade on or after July 1, 2017 must meet these criteria.

Completion of any advanced standing program, which includes Advanced Placement, International Baccalaureate, College Credit Plus, and may include Credit Flexibility, can be counted toward the unit requirements of an Honors Diploma.

Students must meet all or all but one of the criteria to qualify for an Honors Diploma, and any one of the criteria may be the one that is not met.

Diploma with Honors requirements pre-suppose the completion of all high school diploma requirements in the Ohio Revised Code including:

½ unit physical education (unless exempted)

½ unit health

½ unit in American history

½ unit in government

¹ Writing sections of either standardized test should not be included in the calculation of this score. The Locating Information test is not included in the calculation of the WorkKeys score.

² Advanced science refers to courses that are inquiry-based with laboratory experiences and align with the 11/12th grade standards (or above) or with an AP science course, or with an entry-level college course (clearly preparing students for a college freshman-level science class, such as anatomy, botany, or astronomy).

³ Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post-secondary credit.

⁴ The fifth mathematics and science credit for the STEM honors diploma may be fulfilled with a single course.

⁵ Field Experience refers to experiential learning in either an internship or apprenticeship. Students will document their experiences by describing their understanding in a portfolio.

⁶ The student portfolio is a collection of experiential learning and competencies based on the student's field experiences. Students will engage with professionals or scholars in the field while developing their own portfolio or ePortfolio of original work that documents their technical, critical and creative skills representative of their honors focus; students' work must be reviewed and evaluated by scholars or professionals within the field/area of study in which the students' work is focused, and the scholars or professionals must be external to the district staff; students will give a presentation to showcase the work and provide an analysis of it to the school and local community. If the student does not complete a field experience, the portfolio can be based on a collection of work related to the student's honors diploma area of focus.

⁷ Students must score a minimum of a 6 on the Math WorkKeys Assessment and a minimum of 6 on the Reading WorkKeys Assessment in order to meet the WorkKeys score requirement. The WorkKeys option applies only to the Career Tech Honors Diploma.

⁸ These scores are based on the 2016 ACT and SAT assessments. ODE will publish a concordance document outlining equivalent scores for past and future tests that differ from the 2016 versions.

9/30/16

Honors Diploma Class of 2026 & Beyond

ACADEMIC HONORS DIPLOMA

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

*Students can use OMJ Readiness Seal in 2 additional seals requirement if it is not used in Experiential Learning.