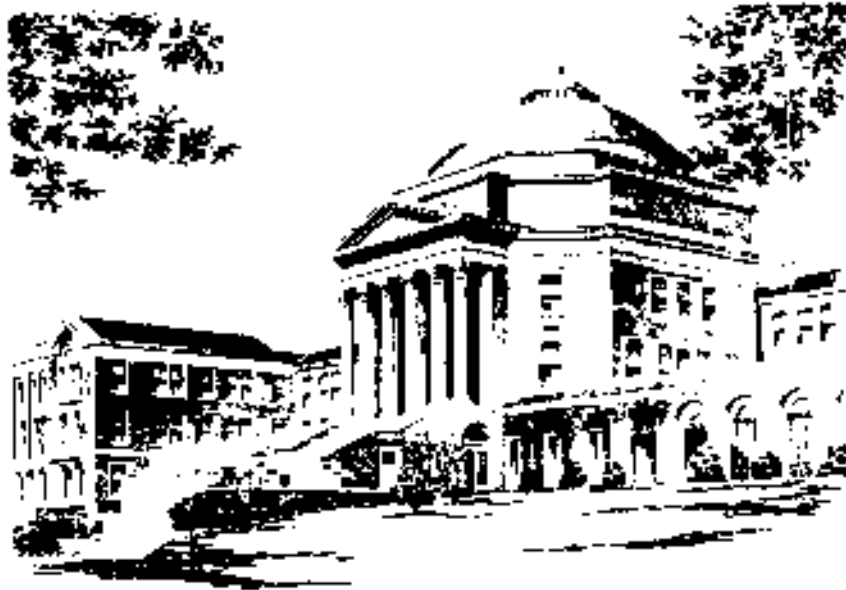


# WALNUT HILLS HIGH SCHOOL

Cincinnati, Ohio



## 2017-2018 COURSE GUIDE

WALNUT HILLS HIGH SCHOOL  
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**COURSE GUIDE  
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## **FOREWORD**

### **STATEMENT OF PHILOSOPHY**

Walnut Hills High School, a classical six-year college preparatory high school, is dedicated to the pursuit of academic excellence in a culturally diverse community. Academic ability, a respect for learning, and a will to achieve are tools for the student body and faculty alike. Analytical and creative thinking skills equip students to draw upon the knowledge of the past, to weigh the questions of the present, and to envision the possibilities of the future. Involvement in extra-curricular and co-curricular activities provides additional opportunities for pursuing intellectual, social and athletic goals. We believe that intellectual achievement is intrinsically valuable in a democratic atmosphere of mutual respect, social equality, and personal responsibility.

### **CLASSICAL EDUCATION**

Classically trained students learn to appreciate the past, evaluate the present and prepare for the future while becoming life-long learners. These students learn to think and write critically, logically and analytically using elements of the Socratic method. Content is structured to build an appreciation of the sciences, mathematics, language, literature, and the fine arts based upon the civilizations of Greece and Rome.

### **OBJECTIVES**

1. To offer rigorous college preparatory courses, as well as college level courses, enabling students to graduate with advanced standing.
2. To set and maintain high academic standards while providing each student with the opportunity for a structured, yet individualized, six-year sequence of courses, thereby enhancing the intellectual maturation process.
3. To maintain an atmosphere of mutual respect in our culturally diverse community and thereby promote a responsible exchange of ideas among students and other members of the Walnut Hills High School community.
4. To bring together capable students and teachers, dedicated to intellectual achievement, with the principles of mutual respect, and for the development of good citizenship.
5. To continue to serve as a model of excellence in the educational community in its traditional role as a unique college preparatory secondary school.
6. To encourage teachers to pursue additional enrichment opportunities and to support those endeavors financially with the continued help of the Walnut Hills High School Association (Parent Board) and Alumni Foundation and/or other sources of support.
7. To maintain policies favorable to creative teaching techniques and to the development of improved pedagogy, consistent with our motto *Sursum ad Summum* "Rise to the Highest," including the opportunity to use textbooks and other curricular materials uniquely applicable to the special nature of the Walnut Hills High School program.
8. To create a positive school climate in which administrators, counselors, and faculty exhibit compassion and respect for the needs of others in the Walnut Hills High School community, and to respond to those needs in an informed and timely fashion.
9. To encourage teachers, counselors, and administrators to provide an atmosphere conducive to the emotional growth and well-being of the whole person. Support services will be available to help students cope with the problems and challenges of living in an increasingly complex and swiftly changing society.
10. To transmit our diverse cultural heritage to our students for posterity, and to equip students with the necessary skills for a lifelong pursuit of learning.
11. To prepare students for contemporary life by stressing civic training, social responsibility and community service.
12. To develop leaders with a desire to serve the common good.
13. To encourage involvement of students, faculty, parents, alumni, and community in the support of Walnut Hills High School.

## **I. INTRODUCTION**

The guidance staff is committed to working directly with students and parents. The goal is to provide a smooth transition from junior high to senior high school and ultimately, to college.

According to the National Association of College Admission Counselors, the most important thing the prospective college student can do in high school is to make decisions which maximize future possibilities. With that goal in mind, students must challenge themselves academically and personally. These challenges must not be equated solely with achieving high grades. Students should experience subjects in-depth by selecting a well-rounded curriculum that includes advanced courses in all academic areas of study. When possible, students should elect to study a subject for four years and option for “AA” or “AP” selections.

In addition to academic pursuits, we believe in developing the whole person by encouraging participation in extra-curricular activities. Walnut Hills provides opportunities in art, music, drama, athletics, and a large number of clubs and organizations. We also believe that volunteering in the community and/or having a part time job provide valuable experiences while enhancing options for the future.

This guide for students and parents presents requirements for graduation, course descriptions, and other information useful for planning a program of study at Walnut Hills High School. Each student is advised to use this information to create a schedule well suited to personal interests and plans for college. Above all, students must prepare for a future that involves change. A program balanced with a variety of academic pursuits should assist students in preparing for the unknown demands of the future. Optioning and scheduling require thoughtful decisions. The allocation of class time is determined by student demand as indicated by the options. Requests for changes in programs must be considered as they affect the total school organization. If problems arise, students and parents should confer with counselors.

## **II. ADMISSION REQUIREMENTS FOR COLLEGE ACCEPTANCE**

When students are planning their freshman courses and high school program, they should be aware of the admissions and scholarship criteria employed by colleges. Thoughtful planning will enable students to present colleges with a positive portrayal of themselves.

The most challenging job for college admissions committees is selecting a well-balanced class for each school year. Admissions officers view the high school transcript as crucial, because it documents a student’s academic progress throughout high school. Colleges prefer consistently high academic achievement or an improvement in grades throughout one’s high school career. Admissions officers not only examine a student’s grade point average, but also pay particular attention to the specific courses selected by the candidate. Another related indicator of student success is class rank. Some colleges and universities mandate that candidates rank in the top ten or fifteen percent of their class. Many colleges are flexible in judging the class rank of a student from a competitive school like Walnut Hills, since 97% of the students attend college immediately upon graduation from high school.

Scores obtained on college-entrance examinations are additional indicators of potential success in higher education. Since many colleges require certain minimum scores for admission, students should take these exams and take them seriously. In the ninth and tenth grades Walnut Hills students take the PSAT. In the eleventh grade Walnut Hills students take the PSAT exam in October and the ACT in April. In the 10<sup>th</sup> grade students who have taken AP classes should consider taking the SAT Subject Tests in that content area. By the end of the junior year students should have taken the SAT, ACT, and selected SAT Subject Tests if required by schools to which the student is applying.

In addition to the academic profile of a student, colleges express interest in a student’s activities, volunteer community involvement and/or work experience. Participation in an activity for several consecutive years often indicates an in-depth commitment to a program and may be viewed more positively than engaging in many activities over short periods of time. Admission officers highly regard continuity of activities.

### **III. HISTORY OF WALNUT HILLS HIGH SCHOOL**

Walnut Hills High School first opened in 1895 as the third public high school in Cincinnati. Today, Walnut Hills is a nationally recognized college preparatory school for grades 7-12 with an enrollment of approximately 2,800 pupils and a professional staff of over 140.

From the beginning, the curriculum of Walnut Hills High School has reflected a well-balanced course selection with emphasis on the influence of the classical past. A curriculum guide from 1896 included courses in astronomy, German, Greek, logic, philosophy, political science, and geology. Today, the curricular offerings continue to reflect our classical heritage not only by specific courses but also by presenting balanced opportunities in academics, arts and athletics.

By the second decade of the school's history, a trend appeared which determined the future direction of the school. Most of the graduates were continuing their education by entering colleges and universities. In 1915, for example, 60% of the graduates opted for higher education. In consideration of this development, Randall Condon, Superintendent of Schools, proposed that Walnut Hills become a classical, college preparatory high school. By 1918 the administration was committed to making Walnut Hills comparable, in every respect, to the best college preparatory schools in the nation. The program became so popular that the old building became inadequate, and on September 8, 1931, the present building on Victory Parkway was officially dedicated. The inspiration for the design was the Jeffersonian style of architecture at Monticello and the University of Virginia. It was quite appropriate that, given the purpose of Walnut Hills High School, the architecture should have reflected the classical ethos.

Throughout its history Walnut Hills has determined to maintain its academic integrity. In 1935, 1972 and again in 1996, the Board of Education reaffirmed the status of the school as a six-year program specialized for college preparation. As early as 1926 a systematic method of pupil selection was adopted. Today, an entrance test remains as the criteria for admission. Through this admissions policy, Walnut Hills has attracted a diverse student body with representation from a variety of ethnic and socio-economic backgrounds.

Throughout its history the popularity of Walnut Hills has necessitated additions to the building. In 1960 the annex added seventeen classrooms, and in 1976 a fine arts complex was dedicated. In 1999 a thirty classroom arts and science center replaced the annex. This facility has world-class laboratories, spacious art studios, and an expanded level of technology. A highlight of the facility is an outdoor learning center with five bio-beds with plantings representing different geographic areas and a two level aquatic pool. The outside of the center also features a sculpture garden to display artwork. Our Alumni Foundation with the 16,000 alumni financed this twelve million dollar project.

Today, Walnut Hills remains proud of its past and present accomplishments. Currently, the National Merit semi-finalists number 20 students. These students received letters of commendation for placing among the top .5%. The passing rate on the Ohio Graduation Test is 100%. Walnut Hills offers more College Board Advanced Placement courses than any other school in the nation. Classes average \$27 million in scholarship offers and participate in the most extensive extracurricular program in Cincinnati. Walnut Hills continues to present educational challenges that prepare students for college entrance.

In addition to intellectual achievement, Walnut Hills brings together capable students and faculty dedicated to the principles of mutual and collective respect and to the development of good citizenship. In today's society we anticipate that students may change careers six or seven times throughout their lives. Walnut Hills, must, therefore, prepare students for change. By devotion to a strong academic college preparatory program that maintains roots in the classical tradition while exposing students to the most advanced technology and challenging courses, Walnut Hills will continue to prepare students to be lifelong learners who adapt to the conditions of a rapidly changing world. As we enter the year 2017-2018, Walnut Hills truly epitomizes its motto, *Sursum ad Summum* – "Rise to the Highest."

#### IV. WHHS GRADUATION AND COURSE REQUIREMENTS

##### A. GRADUATION REQUIREMENTS

1. 22 units earned in grades 9-12 (23 recommended)
2. Minimum completion of 18 academic courses in grades 9-12.

##### B. SPECIFIC COURSE REQUIREMENTS

1. English: English 7, 8, 9, 10, 11, and 12. Students must complete 4 years of high school English
2. Fine Arts: One Fine Art credit is required in grades 9-12, which could be in Music, Theatre, or Visual Arts.  
Music: A semester course of vocal or instrumental music is required in grades 7 or 8.  
Theatre: Theatre courses are offered in grades 7-12.  
Visual Arts: Art 7-8. One semester is required in grades 7 or 8.
3. Health: Senior High Health (1 sem.) in grades 8-12.
4. Latin: Latin I, Latin II, and Latin III are required for students who enter at grade 7 or 8. Latin IV is required if no further language study is planned.
5. Modern Foreign Language: Two years of study in a foreign language are required for students who enter at grade 9 or later or for those who have not completed Latin IV. A combination of three years of modern foreign language is recommended for students who enter at grade 7.
6. Mathematics: Pre-Algebra (does not count for high school credit), Algebra I, Geometry, Algebra II, and one more year. Students must complete four years of high school math, with the 4<sup>th</sup> Math class being a Level 4 Math requirement.
7. Physical Education: PE 7, two semesters are required in grades 8-12 for high school graduation requirements.
8. Science: Science 7AA, Science 8AA, Biology (grade 9), Chemistry (grade 10 or 11) and a third year science elective are required. Physics is highly recommended for those planning to enter scientific, engineering, health-related, or other technical fields.
9. Social Studies: Social Studies 7, American History 8, Modern History 9, American History 10, one semester of Economics, and Government.

##### C. ADDITIONAL GRADUATION REQUIREMENTS (STARTING WITH THE CLASS OF 2018)

All students must take end-of-course exams:

1. Algebra I and Geometry or Integrated Math I and II
2. English I and English II
3. Biology
4. American History and American Government

Students studying Advanced Placement (AP), International Baccalaureate Studies (IB) participating in college credit plus courses in Physical Science, American History, or American Government may take assessments aligned to those courses in lieu of end-of-course exams to avoid double testing.

And meet one of the following:

1. Earn a cumulative passing score of 18 on seven end-of-course exams.
2. Earn a “remediation free” score on a nationally recognized college admission exam such as ACT or SAT.
3. Earn a State Board of Education-approved industry-recognized credential or a state-issued license for practice in a career and achieve a score that demonstrates work force readiness and employability on a job skills assessment.

\*These graduation requirements are designed to provide preparation for undergraduate degree programs. Students and parents, however, are encouraged to investigate specific college program requirements early enough to plan an appropriate combination of high school courses.

**SEE WALNUT HILLS HIGH SCHOOL ACADEMIC GRID ON PAGE 12 OF THIS GUIDE**

#### **D. DIPLOMA WITH HONORS**

A Cincinnati Public Schools Honors diploma will be awarded to the student who completes this college preparatory curriculum and meets seven of the following eight criteria:

1. Earn four units of English.
2. Earn four units of mathematics that include Algebra I, Geometry, Algebra 2, and another higher level course or a four year sequence that contains an equivalent content.
3. Earn four units of science that include Biology, Chemistry, Physics and an additional unit of science.
4. Earn four units of social studies.
5. Earn three units of one foreign language or two units each of two foreign languages.
6. Earn one unit of fine arts.
7. 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.
8. Obtain a composite score of 27 on the American College Test (ACT) or 1210 on the Scholastic Assessment Test (SAT).

#### **V. GENERAL INFORMATION**

##### **A. COURSE COMPLETION CRITERIA**

1. Credits are earned for all courses in grades 9 – 12.
2. Credit is awarded for a course in which the pupil has earned a final grade of “D” or better in each semester.
3. Examinations are required at the end of each semester in all subjects. The exam weight is 25% of each semester grade.

##### **B. LEVEL CHANGE**

On occasion, a change in level (drop status) of an AA/AP course is necessary. In order to facilitate a change, the following steps must be taken:

- Teacher or student must initiate a level change discussion.
- Student must demonstrate that he/she has completed all homework and sought additional help from the teacher and
- Teacher must complete a ‘Change of Status’ form. Teacher, student, parent and counselor will sign form.

##### **C. GRADING PRACTICES**

1. Honor Roll Eligibility  
“A” Honors reflects a 4.0 or better GPA. “A” Average is 3.51 – 3.99 GPA, “B” Average is a GPA of 3.00 – 3.5. A grade of “D” or “F” in any subject will prohibit eligibility for the Honor Roll.
2. Honors Program for Eighth and Ninth Grades:  
The top 90 students based on grades earned will be invited to participate in the Honors Program for the following year. Final selections will be made in June by administrator once grades from the recently completed courses are known.
3. Academic Honesty  
It is essential that Walnut students embrace honesty and integrity in all academic endeavors. *Sursum ad summum*, “Rise to the Highest,” and respect for the academic work and ideas of others leave no room for cheating or plagiarism of any kind at Walnut Hills. As stated in the student/parent handbook and CPS Districtwide Code of Conduct: “A student must not use, submit or attempt to obtain data or answers dishonestly, by deceit or by means other than those authorized by the teacher. These are examples of acts of cheating/plagiarism: any inappropriate copying, literary theft, falsification, counterfeiting, piracy, fraud, or unsupervised possession of any federal, state or district mandated test(s). Plagiarism includes, but is not limited to copying word for word from references such as books, magazines, research materials or the Internet.
4. Grading Policy  
Grades at Walnut Hills are earned by the student, determined by the teacher, and are considered final. Any concerns about grades should be brought directly to the teacher.



**D. SCHEDULE CHANGES**

Each year a new master schedule is created to accommodate students' course requests made during optioning in January and February. Faculty members are employed, textbooks are purchased and rooms are assigned on the basis of these requests. Student schedules are available on Power School. Please contact your child's counselor with scheduling errors **two weeks** prior to the first day of school. Parents may email their requests to their counselors. Counselor will respond to emails by the start of the school year. Due to high volume of emails being processed, please refrain from further communication with the counselor once your issue has been resolved.

**E. ELIGIBILITY TO CONTINUE AT WALNUT**

College-bound students should make no less than a "C" in any subject. Students are expected to maintain a minimum grade point average of 2.0. Students who fail a semester of three or more subjects within a school year must attend another school the following year. Students who fail one or two subjects will be required to attend summer school and attain a grade of "C" or better. Seniors who fail any required subject for graduation will be permitted to repeat the courses in summer school in order to receive an August diploma.

**VI. OTHER**

- A.** It is expected that five academic subjects (i.e. courses in the areas of English, mathematics, foreign language, science, and social studies) will be carried by any student in any year. (A total of 6 courses per semester will be scheduled.) Art History AP and Music Theory AP may be applied toward this requirement.
- B.** In order to schedule more than five academic subjects in grades 9-12, students must have at least a "B" Average (3.0) in academic subjects, or, for compelling circumstances, must have approval of the counselor.
- C.** The Modern Foreign Language requirement must be fulfilled in the same language.
- D.** Advanced Placement Program – admission by application and approval only. The AP exam administered by ETS in the spring is required for course completion. (Fee per exam is \$92-\$139 subject to change). Students should not schedule more than 3 AA and/or AP subjects in one year unless high academic achievement has been demonstrated ("A" average) and, after consultation with the counselor, approval has been granted. Approved students who begin AA/AP courses cannot be withdrawn, unless an error in placement has been made. A "level change and withdrawal from a course" are separate considerations. **A double \*\* will note weighted courses.**
- E.** Course choices are considered final once courses begin. In rare circumstances, a student may request to withdraw from a course. A meeting must take place between the student, parent, and teacher to discuss a withdrawal from a course. If this request is approved by the teacher, the student will receive a "W" for withdrawn on their transcript.
- F.** Student options are generally limited to six periods of instruction to address accreditation standards and teacher contract limits for class size. Art and Music may be a seventh course.
- G.** Although the school acknowledges the personal and economic value of employment or childcare experience for adolescents, such opportunities should be scheduled after the normal school day. Students should not work more than twelve hours a week. Consistent with the college preparatory nature of the school, program changes are considered as they affect the total school organization.
- H.** For eligibility to play high school sports, OHSA (Ohio High School Athletic Association) guidelines require students to pass a minimum of five classes (excluding physical education) in the quarter preceding the sport.
- I.** Due to changes in faculty assignments or insufficient enrollment, some courses in this guide may be eliminated for the coming academic year.

**VII. GRADE CALCULATION, G.P.A. AND CLASS RANK**

Calculation of grade points for regular and weighted courses are shown below:

- College Prep: A = 4, B = 3, C = 2, D = 1
- AA/Honors: A = 5.0, B = 3.75; C = 2.50, D = 1.25
- AP courses: A = 6, B = 4.5, C = 3, D = 1.5

The calculations of grade points for weighted courses are 1.0 for College Prep, 1.25 for AA, Honors, and 1.5 for AP courses and CCP (College Credit Plus).

Both cumulative weighted and unweighted G.P.A. are calculated only from semester grades. Both are shown on the transcript along with weighted class rank at the end of the fifth, sixth and seventh semesters of senior high studies. Weighted courses will have a double asterisk by the number of units (\*\*).

### **VIII. NEW COURSES**

Students or faculty may petition for the addition of new courses to the Course Guide. A brief description of proposed course content and a suggested course title must be signed by a minimum of 25 students who are eligible to take the course. The feasibility of scheduling the course will be evaluated with the appropriate department and Instructional Leadership Team by December.

### **IX. AA/ADVANCED ACCELERATED CURRICULUM**

Advance Accelerated, or AA courses are designed for the more serious student who wishes for greater depth of study and academic rigor. Those who take AA courses are well-prepared for more advanced studies and possible acceptance into AP courses. Advanced Accelerated courses have an additional weight of 1.25 that is factored into GPA and class rank. Walnut Hills High School offers AA courses in most subject areas.

### **X. ADVANCED PLACEMENT PROGRAM AT WALNUT HILLS**

#### **What is the AP Program?**

Walnut Hills High School offers 34 Advanced Placement Courses providing students the opportunity to pursue college-level studies while still in high school. Based on their performance on rigorous AP Examination, students can earn credit, advanced placement, or both for college.

#### **How do students benefit?**

Students who take AP courses learn a subject in greater depth, while developing the analytical and study skills that are important for success in college. Recognizing the additional challenge of AP classes, Walnut Hills regards a “B” in an AP course as equivalent to an “A” in a regular class, and applies a factor of 1.5 to the letter grade when calculating the weighted GPA and class rank.

**Students improve their chances of being accepted by the college of their choice.** College admissions personnel view the AP experience as one indicator of future success at the college level. They generally look more favorably upon a grade of “B” in an AP class than an “A” in a college preparatory level course. As college admissions become more selective, participation in an AP course is a great advantage. Follow-up studies show that students with AP experience are more likely than their non-AP peers to persist in college, graduate with a double major, and go on to graduate school.

**Students are often exempted from introductory courses** at college. Over 90% of the colleges and universities in the United States, as well as colleges and universities in 19 other countries accept AP grades. Course exemption also gives students time to broaden their college experience by exploring additional subject areas, participating internships, and studying abroad.

**Students may be granted sophomore standing.** Students who earn satisfactory grades on enough AP Exams may be granted a full year’s credit by their college or university.

#### **How does a student at Walnut Hills register for an AP course?**

Walnut Hills’ students receive information about AP classes during the Course Optioning process in January. Each course has an application process determined by the teacher of the course. Once approved for an AP class the student may option for the course.

#### **What does it cost?**

The fee for AP Exams is set by the College Board. The fee per exam is \$92-\$139 (subject to change). Families who express need may apply for a reduced fee for exams. Walnut Hills requires all students enrolled in an AP course to take the AP Exam.

## **The AP Grading System**

AP Exams are graded on a 5 point scale:

5 = Extremely well qualified

4 = Well qualified

3 = Qualified

2 = Possible qualified

1 = No recommendation

### **AP Grading System**

AP Composite score cut-points are set so that the lowest composite score for an AP grade of 5 is equivalent to the average score for college students earning grades of A. Each college decides which AP Exam grades it will accept for credit, or advanced placement or both; most accept grades of 3 or higher. Eighty-seven percent of Walnut students who took AP Exams in 2015 scored a 3 or higher. The procedures and standards for setting AP grades are maintained from year to year so that the value of AP grades is consistent. To help make good decisions, it is best to look closely at the individual colleges and programs where the student is applying. Guidance Counselors at Walnut have a wealth of information to help guide you through this decision.

(Adapted from the College Board Brochure)

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**WALNUT HILLS HIGH SCHOOL COURSE SELECTION GRID**

<b>DEPARTMENT</b>	<b>9<sup>th</sup> GRADE</b>	<b>10<sup>th</sup> GRADE</b>	<b>11<sup>th</sup> GRADE</b>	<b>12<sup>th</sup> GRADE</b>
<b>CLASSICS</b> 3 years of Latin, required if enter in grades 7 or 8	Latin 3 Latin 3 AA	AP Latin (Vergil/Caesar) (10-12) Latin IV (10-12) Latin IV AA (10-12)	AP Latin (Vergil/Caesar) (10-12) Latin IV (10-12) Latin IV AA (10-12)	AP Latin (Vergil/Caesar) (10-12) Latin IV (10-12) Latin IV AA (10-12)
<b>ENGLISH</b> 4 Years required.	English 9 English 9AA English 9H	English 10 English 10AA AP Capstone: Seminar (10-12)	British Literature AA World Literature AA AP English Language and Composition AP English Lit. and Composition AP English Lang. & Comp-Human Rights Focus AP Capstone: Research AP Capstone: Seminar (10-12)	British Literature AA World Literature AA AP English Language and Composition AP English Lit. and Composition AP English Lang. & Comp-Human Rights Focus AP Capstone: Seminar (10-12) AP Capstone: Research
<b>FOREIGN LANG</b> 2 Modern Required 3 Mod. Recommend.	Fr./Ger./Sp./Chin./Rs. 1 or 2(9-12) Fr./Ger./ Rs. /Sp. 1AA or 2AA (9-11)	Fr./Ger./Sp./Chin. 2 or 3 (9-12) Fr./Ger./Rs. /Sp. 2AA or 3AA (9-12)	Fr./Ger./Rs /Sp./Chin. 3, 3AA & 4AA (10-12) AP Fr./Ger./ Sp. (10-12)	Fr./Ger./Rs /Sp. 3, 3AA & 4AA (10-12) AP Fr./Ger./ Sp. (10-12)
<b>MATHEMATICS</b> Algebra 1, Geometry & Algebra 2 & 1additional required.	Algebra 1/1AA Geometry Geometry AA Algebra 2/2AA	Geometry Geometry AA Algebra 2/2AA Pre-Calculus (10-12) Pre-Calculus AA (10-12) AP Statistics (10-12)	Algebra 2/2 AA Pre-Calculus Pre-Calculus AA Prob. and Statistics (11-12) AP Statistics (10-12) AP Computer Science (11-12) Calculus AA (11-12) AP Calculus AB (11-12) AP Calculus BC (11-12) AP Computer Science Principles (11-12)	Intro. to Engineering Algebra 2/2 AA Pre-Calculus Pre-Calculus AA Prob. and Statistics (11-12) AP Statistics (10-12) AP Computer Science (11-12) Calculus AA (11-12) AP Calculus AB (11-12) AP Calculus BC (11-12) AP Calculus BC – H Multivariable Calculus AP Computer Science Principles (11-12)
<b>SCIENCE</b> Biology, Chemistry 1 additional required.	Biology (9-10) Biology AA Biology H	Chemistry (10-11) Chemistry AA (10-11) Environmental Science/Man (.5) Environmental Science/Botany (.5)	Anatomy & Physio. AA (11-12) AP Biology (11-12) Physics AA (11-12) AP Physics 1 (11-12) AP Physics 2 (11-12) AP Chemistry (11-12) AP Environmental Science (11-12) Zoology (11-12) Geology (11-12) Meteorology/Astronomy (11-12) Environmental Science/Man (.5) Environmental Science/Botany (.5)	Intro. to Engineering AP Physics C Anatomy & Physio. AA (11-12) AP Biology (11-12) Physics AA (11-12) AP Physics 1 (11-12) AP Physics 2 (11-12) AP Chemistry (11-12) AP Environmental Science (11-12) Zoology (11-12) Geology (11-12) Meteorology/Astronomy (11-12)
<b>SOCIAL STUDIES</b> Modern History, American History, Economics, and Government	Modern History Modern History-H Modern History AA	American History AP US History Anthropology (.5)(10-12) AP Human Geography (10-12) AP Human Geo-Service Learning(10-12) AP Capstone: Seminar(10-12)	AP US Government (11-12) AP Comp. Govt. & Pol. (11-12) AP Economics (11-12) Themes in Irish History (.5)(11-12) Sociology (.5) (11-12) Philosophy (.5) (11-12) Economics (.5) (11-12) Government (.5) (11-12) Ancient & Medieval History (11-12) AP World History (11-12) AP Art History (11-12) AP European History (11-12) AP European-Service Learning	AP Psychology Ethnic Studies AP US Government (11-12) AP Comp. Govt. & Pol. (11-12) AP Economics (11-12) Themes in Irish History (.5)(11-12) Sociology (.5) (11-12) Philosophy (.5) (11-12) Economics (.5) (11-12) Government (.5) (11-12) Ancient & Medieval History (11-12) AP Capstone: Research (11-12)

**Students must also take two semesters of Fine Art, Physical Education, and one semester of Health**

**WALNUT HILLS HIGH SCHOOL  
ELECTIVE COURSE SELECTION GRID**

Course	Grade Level	Prerequisite	Course	Grade Level	Prerequisite
Art X	9, 10, 11, 12	Yes	Basic Drama	9, 10, 11, 12	
Art XX	9, 10, 11, 12	Yes	Creative Dramatics	7, 8	
Art XXX	9, 10, 11, 12	Yes	Advanced Theatre I	10, 11, 12	Yes
Art 1	9, 10, 11, 12	Yes	Advanced Theatre II	11, 12	Yes
Art 2	10, 11, 12	Yes	Stagecraft I	10, 11, 12	
2D - Design Studio	9, 10, 11, 12	Yes	Stagecraft II	10, 11, 12	Yes
AP Studio Art: Drawing	11, 12	Yes	Intro to Costume	9, 10, 11, 12	
AP Studio Art: 2-D	11, 12	Yes			
AP Studio Art: 3-D	11, 12	Yes	Archeology	10, 11, 12	
Photography I	9, 10, 11, 12	Yes			
Digital Imaging	9, 10, 11, 12	Yes	Time to Speak	9, 10, 11, 12	
Digital Multimedia	10, 11, 12	Yes	News Writing 1	8, 9, 10, 11, 12	
			Newspaper Production	9, 10, 11, 12	Yes
Computer Applications I	8, 9, 10, 11, 12		Journalism Production	9, 10, 11, 12	Yes
Web Design Fund.	9, 10, 11, 12	Yes	News Writing 2	9, 10, 11, 12	Yes
Intro. To Programming	9, 10, 11, 12	Yes	Creative Writing	11, 12	
			Film Techniques	12	
Senior High Health	8, 9, 10, 11, 12				
Physical Education	8, 9, 10, 11, 12				
Pro Athletic Studies	9, 10, 11, 12				
Beginning Choir	7, 8				
Junior Choir	7, 8	Yes			
Senior Choir	9, 10	Yes			
Vocal Ensemble	11, 12	Yes			
Women's Ensemble	10, 11, 12	Yes			
Men's Ensemble	10, 11, 12	Yes			
Beginning Band	7, 8, 9				
Intermediate Band	7, 8, 9, 10	Yes			
Junior Band	7, 8, 9, 10	Yes			
Senior Band	7, 8, 9, 10, 11, 12	Yes			
Jazz Ensemble	8, 9, 10, 11, 12	Yes			
Jazz Lab Band	8, 9, 10, 11, 12	Yes			
Beginning Strings	7, 8, 9				
Junior Orchestra	7, 8, 9, 10, 11, 12	Yes			
Senior Orchestra	7, 8, 9, 10, 11, 12	Yes			
Chamber Orchestra	7, 8, 9, 10, 11, 12	Yes			
Beginning Steel Drum	8, 9, 10, 11, 12	Yes			
Intermediate Steel Drum	9, 10, 11, 12	Yes			
Advanced Steel Drum	9, 10, 11, 12	Yes			
Music Theory I	9, 10	Yes			
AP Music Theory	10, 11, 12	Yes			

## ART

The Art Department offers a wide range of opportunities from beginning levels to advanced studio art courses. One semester is required in grade 7 or 8, and one fine art credit must be completed in grades 9 – 12. Studio Art AP is available for the most accomplished students in the senior high.

### JUNIOR ART 7/8: FOUNDATIONS

Code: 02A31000

This is a diversified creative art program based on breadth more than depth. Students are introduced to the tools and techniques necessary to express ideas in visual form. The course involves pupils in exploratory creative expression; both two and three dimensional design, art appreciation and art history. As students exhibit competencies, there is opportunity for individualized pursuit of special interests. \$20 will be required to purchase materials for projects. An additional supply list may be required for students' needs.

Open to: Grade 7 or Grade 8

Term: 1 sem

Prerequisite: None

### JUNIOR ART 9: FOUNDATIONS

Code: 02A91000

See **Junior Art 7/8 Foundations**. This course is adjusted for pupils two years older who will work with projects in various media emphasizing the elements and principles of art. The level of difficulty is greater to match the maturity of the students. \$20 will be required to purchase materials for projects. An additional supply list may be required for students' needs.

Open to: Grade 9 (not open to students who  
successfully complete Jr. Art 7 and 8)

Term: 1 sem

Credit: 0.5 unit

Prerequisite: None

(Fine Art Credit)

### ART X: TEXTILE DESIGN

Code: 02B31000

Students will learn about traditional and culturally significant art forms made from threads, yarns, and woven materials. Exploration in basic design is followed by applied techniques including stitching, printing, appliqué, weaving and dying of textiles. Guest speakers, slides and videos are used to illustrate the value of textiles in our environment. There is no requirement of previous sewing experience but solid craft will be stressed. Approximately \$30 will be required to purchase materials for projects. An additional supply list may be required for students' individual needs.

Open to: Grades 9, 10, 11, 12

Term: 1 sem

Prerequisite: Art 7, 8, or 9

Credit: 0.5 unit

(Fine Art Credit)

### ART XX: DRAWING AND PAINTING

Code: 02C31000

This concentrated study of drawing and painting stresses composition and design. Drawing includes traditional techniques in contour and basic figure sketching in a variety of drawing media. Painting emphasizes techniques and styles in watercolor and acrylics. Students will be required to purchase certain materials necessary for student projects. Purchases of additional supplies may be required for student's individual projects.

Open to: Grades 9, 10, 11, 12

Term: 1 sem

Prerequisite: Art 7, 8, or 9

Credit: 0.5 unit

(Fine Art Credit)

### ART XXX: SCULPTURE

Code: 02D31000

This course explores three-dimensional problems, with emphasis on mass, volume, space, and surface media, including: paper, foil, clay, wood, glass, plaster, plastic, and "found" objects. Techniques differ according to limitations of media, but they include basic ideas of subtractive and additive procedure in assembling, casting, modeling, etc. This course revolves around art history, art appreciation, art criticism, and art aesthetics as well as the studio experience. (Students will be required to purchase materials for projects). Purchases of additional supplies may be required for students' individual projects.

Open to: Grades 9, 10, 11, 12

Term: 1 sem

Prerequisite: Art 7, 8, or 9

Credit: 0.5 unit

(Fine Art Credit)

### DIGITAL IMAGING

Code: 02U3310Y

The digital Imaging course is an exciting class that will combine digital design, digital photography, and digital filmmaking. The Digital Imaging class will provide you with the education you need to create functional and extremely cool digital media designs and experiences. The students will be introduced to PhotoShop CS, Illustrator, I Move, Core Draw, their applications and use in digital media production and editing. This course will serve students interested in an art class using digital medium. After taking this course, your photographic eye will developed, and your images will take on a whole new dimension allowing you to be more creative. Students will be required to pay a Computer Graphics lab fee and provide a jump drive for image storage. Must have a digital camera with at least 5 mega pixels. A \$30 lab fee will be required for all students.

Open to: Grades 9, 10, 11, 12  
Prerequisite: Teacher Approval

Term: 1 sem  
Credit: 0.5 unit  
(Fine Arts Credit)

### DIGITAL MULTIMEDIA

Code: 02U3320Y

An introduction to the field of digital media, including the profession, career options, industry trends, technology, and production requirements. Applying learned visual and design principles, students will explore the use of computer-based tools in the design and authoring of interactive digital media by creating and editing digital images, sounds, video, text, and motion graphics. Production and management of a comprehensive term project for publishing will be required. This course will be taught in the Walnut Hills Mac Graphic lab with the use of digital cameras and graphic tablets. A digital camera with sound and video is required. Digital Imaging is the prerequisite for Digital Multimedia.

Open to: Grades 11, 12  
Prerequisite: Digital Imaging and Teacher Approval

Term: 1 sem or 2 sem.  
Credit: 0.5 unit or 1.0  
(Fine Arts Credit)

### ART 1: BEGINNING ART

Code: 02E3100Y

This course is an intermediate studio course for students who wish to refine their artistic skills in drawing, painting, design, printmaking, and sculpture. Students will be taught advanced artistic techniques and the use of professional artist's materials. In addition to the studio experience, students will have an opportunity to expand their comprehension of art concepts, artistic technique and art media through a study of art historical themes and art critical dialogue. Students will be required to purchase certain materials for student projects. It is anticipated that such purchases will not exceed \$50.

Open to: Grades 9, 10, 11, 12  
Prerequisite: Teacher Approval or Jr. Art 7, 8, 9

Term: 2 sem  
Credit: 1.0 unit  
(Fine Arts Credit)

### ART 2: INTERMEDIATE ART

Code: 02F3100Y

Studio art is a two-semester course for the student who is serious about exploring a variety of media and techniques. Assignments will require a commitment of time and research outside of class to develop ideas. The student's personal style may begin to define itself while also learning to manage time, materials and meet deadlines. This course can be an important asset to those intending to take the advance placement program in the future. In addition to drawing and painting, students may gain experience with sculpture, ceramics, textiles and printmaking. The successful Studio Art student should end the course with knowledge of their creative strengths and an idea of what direction they might take concerning further studies in art. Students will be required to purchase certain materials for student projects. It is anticipated that such purchases will not exceed \$50.

Open to: Grades 10, 11, 12  
Prerequisite: Studio Art I or Beginning Design  
Studio and Teacher Approval

Term: 2 sem  
Credit: 1.0 unit  
(Fine Arts Credit)

### 2D - DESIGN STUDIO

Code: 0233100Y

Students are introduced to creative problem-solving in different fields of art including architecture, graphic design, fashion design, environmental design, and community planning, in addition to interior, industrial, and advertising design. Students will employ art concepts to create two and three-dimensional images that will be used as functional objects. The course will include a wide variety of design processes including illustration, bookbinding, package design, toy design, jewelry making, and model building. Students will be required to purchase materials for student projects that should not exceed \$50. Purchases of additional supplies may be required for students' individual projects.

Open to: Grades 9, 10, 11, 12  
Prerequisite: Teacher Approval and Jr. Art 7, 8 or 9

Term: 2 sem  
Credit: 1.0 unit  
(Fine Art Credit)

### PHOTOGRAPHY 1

Code: 02U31000

This course requires the use of a 35mm film camera. Students are required to have a 35mm camera. This course is designed to teach the fundamentals of photographic images, research and experimentation as key factors. Students are expected to write evaluations and make cognitive reports relating to their experience in the photographic field. Development, exposure, and photo printmaking are essential phases of the course. All materials and camera equipment must be supplied by the student. Independent field trips and projects covering an extensive time period are necessary components of the course. Students are assessed a laboratory fee and are required to obtain specific materials for this course not to exceed \$80. This course does not satisfy the junior high art requirement.

Open to: Grades 9, 10, 11, 12

Prerequisite: Teacher Approval

Term: 1 sem

Credit: 0.5 unit  
(Fine Art Credit)

### AP STUDIO ART: DRAWING

Code: 02J2500Y

This exciting course prepares the student with artistic ability to meet the requirements of the College Board Evaluation for Advanced Placement credit. The Drawing Portfolio requires each student to demonstrate mastery in the drawing disciplines which include painting, pen and ink, etc. With the assistance of a highly – qualified instructor and artist, the student is expected to create a body of work based on the curriculum of a college foundations course. Additional time outside of class is required for success in Studio Art AP. Students may be required to purchase specialized materials for the projects they choose for their portfolios although most common materials will be furnished. There is a class materials charge of \$50 per semester for matt board and common materials. Also, there is a charge for the AP exam. There is a summer component of specific works of art, which is assigned by the instructor in the spring of the preceding year. The completion of the summer assignments is crucial to the success of the student in Studio Art AP Drawing course. At the completion of this course, the student will have a portfolio of 25 to 30 works of art. Completing the AP exam requirements is mandatory of this course offering.

Open to: Grades 11, 12

Prerequisite: Art 1 & Art 2, 2-D Design and Teacher Approval

Term: 2 sem

Credit: 1.0 unit\*\*  
(Fine Art Credit)

### AP STUDIO ART: 2-D DESIGN

Code: 02J3500Y

This exceptional course prepares the student with artistic ability to meet the requirements of the College Board Evaluation for Advanced Placement credit. The 2D Design Portfolio requires each student to demonstrate mastery of 2D design elements and principles through any two-dimensional medium or process, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. In this exciting, high-paced portfolio class with the assistance of a highly qualified instructor and artist, the student is expected to create a body of work based on the curriculum of a college foundations course. Students may be required to purchase specialized materials for the projects they choose for their portfolios although most common materials will be furnished. There is a class materials charge of \$50 per semester for matt board and common materials. Also, there is a charge for the AP exam. There is a summer component of specific works of art, which are assigned by the instructor in the spring of the preceding year. The completion of the summer assignments is crucial to the success of the student in Studio Art 2D Design. Completing the AP exam requirements is mandatory of this course offering. At the completion of this course, the student will have a portfolio of 25 to 30 works of art created at a college level.

Open to: Grades 11, 12

Prerequisite: Art 1 & Art 2, 2-D Design and Teacher Approval

Term: 2 sem

Credit: 1.0 unit\*\*  
(Fine Art Credit)

### AP STUDIO ART: 3-D DESIGN

Code: 02J4500Y

This creative, energetic course prepares the student with artistic ability to meet the requirements of the College Board Evaluation for Advanced Placement credit. For this portfolio, students are asked to demonstrate mastery of 3D design through any three-dimensional approach, including, but not limited to, figurative or nonfigurative sculpture, architectural models, metalwork, ceramics, and three dimensional fiber arts. The student is expected to work with a highly qualified instructor and artist at a college level with sculpture media and techniques. Students may be required to purchase specialized materials for the projects they choose for their portfolios although most common materials will be furnished. There is a class materials charge of \$50 per semester for matt board and common materials. Also, there is a charge for the AP exam. There is a summer component of specific works of art, which is assigned by the instructor in the spring of the preceding year. The completion of the summer assignments is crucial to the success of the student in Studio Art AP 3D Design course. Completing the AP exam requirement is mandatory of this course offering. At the completion of this course, the student will have a portfolio of 16 to 20 sculptures created at a college level.

Open to: Grades 11, 12

Prerequisite: 2-D Design Studio, Sculpture and Teacher Approval

Term: 2 sem

Credit: 1.0 unit\*\*  
(Fine Art Credit)



## CLASSICS

Students who enter in the seventh or eighth grade must take and pass three years of Latin. In addition, the Classics Department offers Latin IV Prose, Latin IV AA Poetry, and AP Latin IV as electives for a fourth year; these courses also allow students to have up to six years of classical training. Students who elect to take a fourth year are not required to take a modern foreign language.

### LATIN I (ACL [American Classical League] Introduction to Latin)

Code: 06413700

Since this course often represents a student's first experience with another language, the long-range effort to build a reading knowledge of Latin begins with a study of fundamentals. Vocabularies, pronunciation, basic elements of grammar – especially those that parallel English structure – receive major emphasis, together with a study of English words derived from Latin roots. Through text readings and visual aids, the student begins an acquaintance with life and culture in the ancient world.

Open to: Grade 7, 8 (new to school)  
Pre-requisite: None

Term: 2 sem  
Credit: 1.0 unit

### LATIN II (ACL Level I)

Code: 06423800

Latin II is a continuation of the study of the fundamentals of vocabulary and syntax begun in Latin I. As the students are increasingly introduced to the idioms and grammatical complexities of Latin, the comparisons and contrasts with English afford them new insights into English. Work with English words derived from Latin roots continues. The stories in the text, adapted from ancient sources, offer descriptions of the life, the literature, and the attitudes of other times and other places.

Open to: Grade 8, 9  
Pre-requisite: Latin I

Term: 2 sem  
Credit: 1.0 unit

### LATIN II AA (ACL Level I)

Code: 06424800

Latin II AA is also a continuation of the study of the fundamentals of vocabulary and syntax begun in Latin I, but at a more rapid pace. It includes all of the goals of Latin II as well as a focus on reading Latin. Students will be exposed to deeper readings and discussions of the stories in the text. There is also more emphasis on syntax in order to prepare students for the rigor of Latin III AA.

Open to: Grade 8, 9  
Pre-requisite: Latin I and teacher approval

Term: 2 sem  
Credit 1.0 unit \*\*

### LATIN III (ACL Level II)

Code: 0643300Y

Latin III moves from a review of elementary grammar – forms and uses of nouns, pronouns, adjectives, participles, infinitives and indicative verbs – to the greater complexity of gerunds, the subjunctive, and subordinate clauses. The course emphasizes comprehension of the language as well as an understanding of the early history of Western Europe through the reading of selections from Caesar's Gallic War and a study of poetry and literature through the selections of Ovid's Metamorphoses, the letters of Pliny, and Vergil's Aeneid. Use of visual aids helps to illuminate the cultural and historical elements contained in the readings.

Open to: Grade 9, 10  
Pre-requisite: Latin II

Term: 2 sem  
Credit: 1.0 unit

### LATIN III AA (ACL Level II)

Code: 0643400Y

This course includes attention to the concepts as outlined for Latin III, emphasizing the ability to derive meaning from more extensive readings, chiefly through translation. A project and outside readings in English help students comprehend the broad picture that includes Rome's debt to Greece, the political development of Rome and the subsequent contributions of ancient civilizations to the modern world.

Open to: Grade 9, 10  
Pre-requisite: Latin II and Teacher Approval

Term: 2 sem  
Credit: 1.0 unit\*\*

### LATIN IV (PROSE SURVEY) (ACL Level III-IV Prose)

Code: 0644300Y

This survey examines selected works of Latin authors from the Golden and Silver Age of Latin literature. The goal is to acquaint the student with the varied genres and themes offered by the Latin language. In addition, a study of relevant cultural, historical, and literary topics places the authors and their works within the broader interdisciplinary context of Roman life and civilization. Authors and their works include: Nepos, Cicero, Sallust and various readings in Latin prose of the teacher's choice. Possible ancillary topics include: Topography of Rome (1st c. BC), Latin Epigraphy, Roman Oratory, Roman Satire, and Historiography.

Open to: Grades 10, 11, 12  
Pre-requisite: Latin III

Term: 2 sem  
Credit: 1.0 unit

LATIN IV AA (POETRY SURVEY) AA (ACL Level III-IV Poetry)

Code: 0644400Y

Latin IV Poetry Survey AA (intermediary between Latin IV Prose Survey and AP Vergil) will include the lyric poets, Catullus and Ovid, as well as writers of comedy, tragedy and satire. The ability to read, translate and comprehend original Latin poetry forms the major part of the work required. Topics in ancient history and Roman culture related to the authors will be studied. Students with a B average in Latin III are encouraged to consider the course and must be recommended by their current or most recent Latin teacher.

Open to: Grades 10, 11, 12

Pre-requisite: Latin III and Teacher Approval

Term: 2 sem

Credit: 1.0 unit\*\*

AP LATIN (VERGIL/CAESAR) (ACL Level III-IV Poetry)

Code: 0646540Y

This is one of the few courses terminating in an Advanced Placement exam that is offered to 10th grade students at Walnut Hills. To be recommended, a student must be mature enough to accept responsibility for his own progress and ambitious enough to carry an above average workload. This course aims at an in-depth study of two of the great classics of Western Civilization, the Aeneid of Vergil and Julius Caesar's Bellum Gallicum. Discussions of the major themes of the Aeneid and its poetic techniques add depth to the translation of the Latin verse. The reading of Caesar's original literary genre will round out the student's understanding of one of the most influential periods of Roman history. Linguistic accuracy, speed, and comprehension, together with facility in communication of ideas and in critical analysis, will be expected of the AP candidate. The AP exam is a requirement of the course.

Open to: Grades 10, 11, 12

Pre-requisite: Latin III/IV and Teacher Approval

Term: 2 sem

Credit: 1.0 unit\*\*

ANCIENT AND MEDIEVAL HISTORY

Code: 1529300Y

This course is designed to develop the students' understanding of and appreciation for their heritage. Ancient and Medieval History examines the study of man from the emergence of civilization in ancient Sumer to the rise of the modern world. While the course emphasizes cultural developments in both Western and non-Western settings, the emphasis is placed on Western civilization. Man's capacity to adapt, his inventive genius and his achievements in the arts contribute interesting topics for consideration. Thematic discussions will be based upon readings of primary sources in translation. Several units for discussion include historiography, the ancient Near East with a focus on the development of monotheism as parallel to the religious reforms of Egypt's Ikhnaton, the development of government in the Greek city-states (tyranny to democracy), the Greek experience and the impact on society (Athens vs. Sparta), the evolution of Rome's society and governmental forms, the High Middle Ages and an overview of Renaissance-Reformation times leading up to the formation of the modern world.

Open to: Grades 10, 11, 12

Pre-requisite: Modern World History and US History

Term: 2 sem

Credit: 1.0 unit

INTRODUCTION TO ARCHAEOLOGY

Code: 15933B00

Emphasis will be placed on archaeological techniques, the growth of archaeology from "a treasure hunt to an academic discipline," and its value in adding another dimension to our study of the past. The course will include "Old World" Classical archaeology as well as historical "New World" archaeology studies. Since Cincinnati is at the center of a rich archaeological storehouse, the resources of both local institutions of higher learning and nearby prehistoric sites will be used whenever possible. This course is unique to public high schools nationwide.

Open to: Grades 10, 11, 12

Pre-requisite: None

Term: 1 sem

Credit: 0.5 unit

## COMPUTER SCIENCE

Grade 8 Code: 250M200  
Grade 9 Code: 25A13000

### COMPUTER APPLICATIONS I

This course will teach students to type well and will also teach them to use Microsoft Word, Excel, and PowerPoint. By the end of the course students should be able to use these programs for all the projects and reports they will need to produce at Walnut Hills, in college, and later in life. They will also learn to create business documents and to manage financial transactions, including credit cards and college loans. This is a lab course, so most work will be done in class.

Open to: Grades 8, 9, 10, 11, 12

Prerequisite: None

Term: 1 sem  
Credit: 0.5  
(Non-Academic Credit)

### WEB DESIGN FUNDAMENTALS

Code: 25W31000

This course will teach students how to design and create Internet pages using web development/application software such as Front Page and graphics application software such as Adobe Photoshop. Students will do several projects including creating their own personal content web site.

Open to: Grades 9, 10, 11, 12

Prerequisite: Computer Applications 1 and  
Teacher Approval

Term: 1 sem  
Credit: 0.5 unit

### INTRODUCTION TO PROGRAMMING

Code: 25131001

This course will teach students how to efficiently program computers using Microsoft programming languages. Topics covered include program structure, elementary data types, keyboard input, formatted output, assignment operations, arithmetic operations, standard math library functions, and selection control structures. Students will be introduced to Windows-style programming and problem solving. Students will be introduced to Visual Basic syntax, forms, properties, and controls. This course is recommended for students who are interested in exploring using the computer to solve business, mathematical, and engineering problems.

Open to: Grades 9, 10, 11, 12

Prerequisite: Algebra 1 and Teacher Approval

Term: 1 sem  
Credit: 0.5 unit  
(Non-Academic Credit)

### AP COMPUTER SCIENCE A

Code: 25A2500Y

AP Computer Science A is all about problem-solving. This course covers the material in an introductory Computer Science college course, and is intended for students with no or some prior computing experience. The course uses the Java language to teach fundamental computer programming skills and follows an object-oriented approach emphasizing data structures, abstractions, and algorithm development and analysis. The course includes more than 20 hours of lab work in which students develop programs modeling real-world situations. In the labs students might build a zoo, encrypt messages, imitate a psychotherapist, validate credit card numbers, or teach the computer to play poker. This course can qualify as a math credit for graduation. Students taking a double-bell science course may be allowed to take this course in the "off" days of their double bell science course. To compare this course with AP Computer Science Principles: This course concentrates on writing programs and the theory of programming, while AP Computer Science Principles concentrates on the ways computer science can be used in other fields.

Open to: Grades 11, 12

Pre-requisite: Algebra II and approval of course instructor

Term: 1 year  
Credit: 1.0 \*\*

### AP COMPUTER SCIENCE PRINCIPLES

Code: 25A2500Y

AP Computer Science Principles is all about using the underlying principles of computer science to create innovations to solve problems, tell stories, or explore topics. This course covers the material in an introductory college computing class, is intended for students with no or some prior computing experience, and is unique for its focus in fostering student creativity and connection to other fields of study. The course uses a variety of languages to learn the logic behind programming and a programmer's choices. The course is project-based learning with an emphasis on communication and collaboration skills. Some of the projects students might complete include programming their own games and animations, researching data on disease in the world, building their own apps, planning a media campaign, and programming their own music. The final AP exam includes a multiple choice portion and a performance portion with a digital portfolio. To compare this course with AP Computer Science A: This course concentrates on the general principles of computer science and programming, how computer science impacts the world around us, and how to apply knowledge to create something new while AP Computer Science A focuses on how students can create writing programs and the theory of programming.

Open to: Grades 11, 12

Pre-requisite: Algebra II and approval of course instructor

Term: 1 year  
Credit: 1.0 \*\*

## ENGLISH

### **PREFACE**

English is required for six years at Walnut Hills High School. All students take at least one advanced English course (Honors/AA or AP) during their high school experience. Entry into an advanced course is determined by grades in previous English courses. New students to the school will have their grades checked by the counseling staff and optioned into the appropriate course.

### **INTRODUCTION**

The English department has designed its curriculum around six core standards: *Writing, Reading Process, Reading Applications, Acquisition of Vocabulary, Oral and Visual Communication, and Research*. Each standard is reflected in individual teacher's lesson plans, student assignments, and evaluation methods for each grade and for all levels. Also, summer reading is introduced in the seventh grade to further facilitate a student's independence in learning, critical thinking, and appreciation for literature. Furthermore, electives are available in *Film Techniques and Analysis*—grade 12 only—and *Yearbook/Journalism*. In addition to “advanced academic courses” (Honors/AA) in grades 8-12, qualified sophomores and juniors may apply for *AP English Language and Composition* and *AP English Literature*. Finally, in addition to novels, plays and literature anthologies students will use *VOCABULARY WORKSHOP* [levels C – H] during each of their six years of instruction in an English course.

### **GUIDELINES FOR HONORS – AA and AP Courses**

#### **ADMISSION**

1. Student must have an overall B average in their English courses at WHHS.
2. Student from a regular English class must have at least an A average in English for the (current) first semester, with no quarter Cs; *student from Honors or AA must have at least a B average for the first semester, with no quarter Cs.*
3. Student must receive a recommendation from his/her current English teacher which is forwarded to the counseling office.
4. Student who was initially recommended for an Honors, AA or AP course must maintain at least a B average for second semester with no quarter Cs—if not, recommended advanced course will be revoked.
5. Student must complete all assigned summer reading and writing assignments.

#### **MAINTAINING HONORS/AA/STATUS**

6. Students enter class with all summer work completed.
7. Student maintains an A or B average with no quarter Cs—if not, student loses Honors, AA or AP status.
8. Student maintains an A or B average with no quarter Cs has the opportunity to option into an advanced course the next year; student who does not maintain an A or B average, forfeits the opportunity to option into an advanced class.

#### **ENGLISH 7 AA**

Code: 05374000

Students develop and improve composition skills through the writing process. Also, an emphasis is placed on vocabulary, grammar, reading process and application, and library/research skills. Compositions are designed through basic writing modes: expository, persuasive, narrative and reflective. Literature studied includes novels, short stories, poetry, drama, nonfiction, classical mythology and fables. Composition and literature merge as students are expected to identify and explain how literary terminology is used. Oral expression is usually designed from essays and could be both formal and informal and either group presentation or individual speech. Students work toward acquiring and adding to a solid foundation of skills necessary for a successful career at Walnut Hills High School and in preparation for college. Summer Reading is required

Open to: Grade 7

Prerequisite: None

Term: 2 sem

Credit:

ENGLISH 8 AA

Code: 05384000

Students continue to develop and improve composition skills through the writing process. Also, there is a continued emphasis on vocabulary, grammar, reading process and application, and library/research skills. Compositions are designed to continue utilizing the established modes of writing, as well as introduced students to literary criticism. Literature studies parallel students social studies curriculum with an emphasis on American writers across all genres including poetry, biographical sketches, American myths and legends, short stories, (with emphasis on theme, plot structure, and point of view), novels, (with emphasis on them and character development), essays and plays. Students do extensive, detailed work with both classical and contemporary literature. The curriculum also addresses grammar, usage, and vocabulary development. In addition the course emphasizes skills in library and research, speaking, listening and critical thinking. Summer reading is required.

Open to: Grade 8 Term: 2 sem  
Prerequisite: English 7

ENGLISH 8-HONORS

Code: 05184H00

In addition to the full 8<sup>th</sup> grade English course of study, this enrichment program is designed to integrate the three disciplines involved: English, American History and Physical Science. The team-teaching approach stresses skills in written communication and creative problem-solving techniques. The students gain experience working in a large lecture group, middle-size groupings, small groups and individualized experiences. The long-range goal emphasizes sophistication and experience in the communication arts with emphasis on critical thinking and analytical writing. In addition, students are prepared to enter the 9-Honors program. See description for Introductory Physical Science Honors (13084H) and American History 8-Honors (15084H) for a complete understanding of the Honors-8 program. Summer reading is required.

Open to: Grade 8 Term: 2 sem  
Prerequisite: English 7 and Qualifying grades

ENGLISH 9

Code: 0519300Y

This program provides opportunity for continued development in literature, language, and composition. Students develop an awareness of the distinctive characteristics of literary types through the study of representative examples of classical and contemporary poetry, drama, fiction, and non-fiction that parallel their study of Modern History. Having examined language as an ever-changing and growing medium, the student should be able to demonstrate increased facility in the use of language as an effective tool in spoken and written communication. The student should be able to write unified paragraphs, using the narrative, persuasive, expository, and literary criticism modes, to complete coherent and detailed essays. Summer reading is required.

Open to: Grade 9 Term: 2 sem  
Prerequisite: English 8

ENGLISH 9 AA

Code: 0519400Y

English 9AA is designed for the dedicated student who plans to continue taking accelerated classes that lead to Advanced Placement English. Students will read works by Dickens, Homer, and Shakespeare, as well as short stories, poetry, and essays chosen to parallel students' social studies' Modern History requirement. Emphasis will be placed on critical analysis and interpretation of literature with advanced composition skills. In addition to the study of literature, composition skills are developed through various projects. A study of vocabulary and public speaking as well as individual and group projects will be interspersed throughout the four quarters. Summer reading is required.

Open to: Grade 9 Term: 2 sem  
Prerequisite: English 8 or Honors and Qualifying Grades Credit: 1.0 unit\*\*

ENGLISH 9-HONORS

Code: 05194H0Y

Honors English is designed for the dedicated student who plans to continue taking accelerated classes that lead to literature that spans from the Renaissance to the present, although connections to the classical world will be explored. By using the team teaching approach, the English course is presented with Modern History and Biology in an integrated format. Students will study works by Dickens, Homer, Shakespeare, Steinbeck, Spiegelman and Wilder, as well as short stories, poetry, and essays chosen to parallel student's social studies' Modern History and Biology curriculum. In addition to the study of literature, composition skills are developed through various projects. A study of vocabulary and public speaking as well as individual and group projects will be interspersed throughout the four quarters. Summer reading is required.

Open to: Grade 9 Term: 2 sem  
Prerequisite: English 8 or Honors and Qualifying grades Credit: 1.0 unit\*\*

### ENGLISH 10

Code: 0510300Y

This course develops a response to our culture and fosters critical thinking as a means of self-expression. In the study of novels, poetry, and dramatic literature, the emphasis is on character study as it reflects the interaction of cultures and environment their relationship to both American Literature and American History—their social studies requirement—as well as the recognition of such literary devices as plot, point of view, setting, and style. In addition, the class emphasizes increased competence in writing and speaking. Vocabulary, grammar and usage are integral parts of this study. Summer reading is required. This course prepares students for upper level choices of British Literature AA, World Literature AA, AP English Language and Composition, and AP English Literature and Composition.

Open to: Grade 10

Term: 2 sem

Prerequisite: English 9

Credit: 1.0 unit

### ENGLISH 10 AA

Code: 0510400Y

English 10 AA is a sophomore level English class for the serious student who plans to enter British Literature AA, World Literature AA, AP English Language and Composition, or AP English Literature and Composition. In the study of American literature, stress is placed on the author's craft in writing: diction, syntax, tone and symbolism. Students learn correct methods of research, continue to read and write critically and evaluate a variety of literary styles and genres. Also, the study of vocabulary and grammar is a requirement. Additional summer reading is required.

Open to: Grade 10

Term: 2 sem

Prerequisite: English 9, AA or Honors, Qualifying grades and Approval

Credit: 1.0 unit\*\*

### BRITISH LITERATURE AA

Code: 0510400Y

British Literature AA is an accelerated course: students will read more selections, write more essays and do a more thorough examination of the material. A study of British literature, particularly the novel, and poetry and a continuation of the students' study of Shakespearean drama are the focus of study. Examination of non-fiction literature happens through research for writing, especially a major research paper. The objectives of the course include: 1) to provide students with those tools necessary for careful literary analysis; 2) to insist that students become critical readers and thinkers; and 3) to polish student's writing skills through prewriting, revising, and editing. Summer reading is required.

Open to: Grade 11, 12

Term: 2 sem

Prerequisite: English 10 or 10AA

Credit: 1.0 unit\*\*

### WORLD LITERATURE AA

Code: 0510400Y

In this advanced academic class students will refine the writing and language skills they have acquired in their earlier years at Walnut Hills in preparation for college. The study of literature will involve students understanding the use of literal or figurative language. Also, students will study various cultures, with enrichment through inclusion or other world classics into the appropriate time periods. Excellence in expression, both written and oral, will be stressed. A research paper is required. Summer reading is required.

Open to: Grade 11, 12

Term: 2 sem

Prerequisite: English 10 or 10AA

Credit: 1.0 unit\*\*

### AP ENGLISH LANGUAGE AND COMPOSITION

Code: 05115G0Y

In addition to prerequisites, students must fill out an application in order to be considered for this college level course. Advanced Placement Language and Composition provides students with an opportunity to earn college credit through an intensive reading and composition course. Writing instruction consists of a broad exposure to many different writing styles with the critical reading and writing processes, including revisions, emphasized as essential learning tools. Readings are international and diverse—including the works of thinkers in many disciplines. This course is open to qualified juniors. Students admitted to the course must complete summer assignments.

Open to: Grade 11, 12

Term: 2 sem

Prerequisite: English 10 or AA, Qualifying grades and Approval

Credit: 1.0 unit\*\*

### AP ENGLISH LANGUAGE AND COMPOSITION-HUMAN RIGHTS FOCUS

Code: 051A5GOY

In addition to prerequisites, students must fill out an application in order to be considered for this college level course. Advanced Placement Language and Composition – Human rights Focus provides students with an opportunity to earn college credit through an intensive reading and composition course. Writing instruction consists of a broad exposure to many different writing styles with the critical reading and writing processes, including revisions, emphasized as essential learning tools. Readings are mainly non-fiction with a focus on Human Rights as evidenced through foundational American documents, writings, and speeches from World war II and the holocaust, writings, speeches, and legal documents from the American Civil Rights movement, and essays concerning modern day human rights issues. This course is open to qualified juniors or seniors. Students admitted to the course must complete summer assignments.

Open to: Grade 11, 12

Term: 2 sem

Prerequisite: English 10 or AA, Qualifying grades and Approval

Credit: 1.0 unit\*\*

AP ENGLISH LITERATURE AND COMPOSITION

Code: 0512500Y

In addition to prerequisites, students must fill out an application in order to be considered for this college level course. Advanced Placement English Literature and Composition will engage students in a careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As students read, they will consider a work’s structure, style, and themes as well as such smaller scale literary elements as the use of figurative language, imagery, symbolism, and tone. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. Reading in this AP course will be both wide and deep; writing assignments will focus on the critical analysis of the readings and include expository, analytical, and argumentative essays. Students admitted to the course must complete summer reading and writing assignments.

Open to: Grade 11,12 Term: 2 sem  
Prerequisite: English 10, 10 AA, Qualifying grades and Approval Credit: 1.0 unit\*\*

YEARBOOK

Code: 05131Y0Y

This course provides students with an introduction to, and practice in, the major skills required for producing a written publication. The major goals of the course are to allow students to familiarize themselves with the major areas of journalism production—design, photography, writing, editing, public relations and advertising. The opportunity to practice techniques used in producing these elements will be provided in class accompanied by extracurricular expectations. Students will become proficient in using online design software and Photoshop. The students are responsible for producing the annual *Remembrancer* yearbook, and must complete an application and selection process in the spring to enroll in this course. Editors-in-chief and specialty editors may be chosen from class members based on ability, interest and knowledge of the yearbook production process. Interested students are encouraged to repeat the class in successive years to assume added responsibilities moving from positions of staff member to specialty editors and editors-in-chief. Professional journalists may speak to the class on some areas of journalism and yearbook production.

Open to: Grades 9-12 Term: 2 sem  
Prerequisite: Teacher Approval & News Writing 1, Photography 1, Digital Imaging or Digital Multimedia Credit: 1.0 unit (Non-Academic Credit)

FILM TECHNIQUES & ANALYSIS

Code: 02FT1000

This class is for students interested in furthering their overall understanding of film techniques through the analysis of established films. Students will study film techniques and their effect on a film’s audience and apply those techniques in various short essays. To understand this process, in addition to watching films—clips and full-length—students will be required to read a college text, Louis Giannetti’s *Understanding Film*, participate in classroom discussion, and sample film criticism. Tests, short essays and an examination are required.

Open to: Grade 12 only Term: 1 sem  
Prerequisite: none Credit: .5 unit (Non-Academic Credit)

CREATIVE WRITING

Code: 05H31000

This class is for students who wish to both explore the various aspects of imaginative writing and strengthen their writing skills. After building a strong foundation of personal narration and expression, students will begin writing short fiction, dramatic (script) writing, and poetry. In addition to strengthening the student's written "voice," we will also focus on the writing conventions inherent in each of these forms through both direct instruction and modeling of published work. This class will be conducted in a collaborative workshop format in which students will not only receive instruction from the teacher, but will receive regular feedback and commentary from their classmates as well within a supportive environment. Therefore, though an interest in creative writing is important, a willingness to share and thoughtfully listen to others is essential.

Open to: Grades 11 and 12 Term: 1 sem  
Prerequisite: None Credit: 0.5 unit (Non-Academic Credit)

NEWS WRITING 1 (INTRODUCTION TO JOURNALISM)

Code: 05H31000

Students will learn about all aspects of high school journalism to prepare them for participation in the student publications REM and CHATTERBOX. Topics covered will include: the 1<sup>st</sup> Amendment, ethical and legal concerns, photojournalism, copy writing, genres of news writing, writing in a journalistic style, design elements of journalism and interviewing skills. During the second quarter of this semester long course, students will create spreads for yearbook or articles and pages the student newspaper. The course will focus on current and coming journalistic publishing trends. This course is a prerequisite for Newspaper Production and Journalism Production.

Open to: Grades 8-12 Term: 1 sem  
Prerequisite: None Credit: 1.0 unit (Non-Academic Credit)

\*\* indicates a weighted course

NEWS WRITING 2 (JOURNALISM)

Code: 05N31200

This course is only available second semester for students who successfully completed News Writing 1 during the 1<sup>st</sup> semester. Students will continue to develop their news writing skills. Students will be involved in all aspects of the production of the student news publication, the CHATTERBOX.. Topics covered will include: the 1<sup>st</sup> Amendment, ethical and legal concerns, photojournalism, copy writing, genres of newswriting, writing in a journalistic style, design elements of journalism and interviewing skills. The course will focus on current and coming journalistic publishing trends.

Open to: Grades 9-12  
Prerequisite: News Writing 1

Term: 1 sem  
Credit: 1.0 unit  
(Non-Academic Credit)

NEWSPAPER PRODUCTION (CHATTERBOX)

Code: 05J31N0Y

Students will be involved in all aspects of the production of the Walnut Hills student newspaper, the CHATTERBOX. Activities will include: writing, editing, proofreading, page layout, finance and sales. In addition to the production of the paper, students will work on developing skills in all types of newspaper writing styles: editorial, feature, news and sports. Editors-in-chief and page editors may be chosen from class members based on ability, interest and knowledge of the newspaper production process. Interested students are encouraged to repeat the class in successive years to assume added responsibilities moving from positions of staff writer to page editors and editors-in-chief. Professional journalists may speak to the class on some phases of newspaper production.

Open to: Grades 8-12  
Prerequisite: None

Term: 2 sem  
Credit: 1.0 unit  
(Non-Academic Credit)

TIME TO SPEAK (COMMUNICATION ARTS)

Code: 05S31T00

Time to Speak is based on the principals that effective communication is a skill that can be learned and mastered. The course content focuses on the four methods of communication through interpersonal, intrapersonal, one-to-one group communication, group problem solving, and public speaking. Presentations range from formal speeches to informal class discussions and seminars. This course integrates the professional practices and protocol for interviewing etiquette and resume writing. Students will also study the art of argumentative rhetoric and will participate in a formal Lincoln-Douglas debate.

Open to: Grades 9-12  
Prerequisite: None

Term: 1 sem  
Credit: 0.5 unit  
(Non-Academic Credit)

AP CAPSTONE: SEMINAR

Code: 0543500Y

In this interactive course, students develop and strengthen analytic and inquiry skills, exploring relevant issues from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions. Students will question, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. During the course, students will participate in formal policy debate, complete a team project, an individual paper and presentation, and take a written final AP exam. The AP Seminar Exam score is based on all three components and is reported on the standard 1-5 AP scoring scale.

Open to: Grade 10, 11 & 12  
Prerequisite: English 9 and Interview

Term: 2 sem  
Credit: 1.0 unit\*\*

AP CAPSTONE: RESEARCH

Code: 0544500Y

The (optional) second course in the AP Capstone experience allows students to design, plan, and conduct a year-long research-based investigation on a topic of individual interest. Through this inquiry and investigation, students demonstrate the ability to apply scholarly understanding to real-world problems and issues. Students further the skills developed in AP Seminar by understanding research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information to build, present, and defend an argument. At the end of the research investigation, students submit an academic thesis paper, present their thesis, and orally defend their work. The AP Research Exam score is based on the paper, presentation, and defense, and is reported on the standard 1-5 AP scoring scale.

Open to: Grade 11 & 12  
Prerequisite: AP Seminar Course & Qualifying Grades

Term: 2 sem  
Credit: 1.0 unit\*\*

\*\* indicates a weighted course



## HEALTH

### SENIOR HIGH HEALTH

Code: 08201000

This course takes a holistic view of healthful living, encouraging students to develop an organized health program of their own. Beginning with the study of individual physical and mental well-being, students proceed to analyze social and environmental factors affecting their health. The goal is to make informed choices about attitudes and behavior patterns which lead to a healthy lifestyle. Sample units of study include nutrition, exercise, the role of the family, sex education (with parental consent), drug education and mental health.

Open to: Grades 8-12  
Prerequisite: None

Term: 1 sem  
Credit: 0.5 unit  
(Non-Academic Credit)

### NOTE: STUDENT EXEMPTION FROM THE FAMILY LIVING/SEX EDUCATION PROGRAM K-12

As mandated by law, parents have the opportunity to withdraw their child from the instructional setting if it is their desire to do so. Parents will be notified in writing in a timely manner of the general content of the instructional program in Family Living/Sex Education. It is the parent's responsibility to notify the school in writing if they do not wish to have their child participate in the Family Life and Sex Education Program. If the school is not notified in writing, the child will receive instruction in the program. Any child whose parents request exemption (in writing) must be excluded from instruction. Parents may view approved instruction support materials during regular business hours at the Staff Development Center in the Central Office. Board approved text materials and the Family Living/Sex Education Curriculum Bulletin (HE9101) are available for examination in the school library.

### PROFESSIONAL ATHLETIC STUDIES

Code: 08S31000

This course is developed to give students background knowledge and exposure to careers involving athletics and sports medicine. The course will certify students in Red Cross CPR, First Aid, and AED and will provide them with a background in basic athletic training concepts. Students will be exposed to anatomy, physiology, kinesiology, biomechanics and nutrition. Professionals currently working in the field will offer students additional information through class visits and presentations. Professions researched in the course will include but are not limited to orthopedics, athletic training, physical therapy, occupational therapy, personal training, dietetics and sports management.

Open to: Grades 9-12  
Prerequisite: Teacher Approval

Term: 1 sem  
Credit: 0.5 unit  
(Non-Academic Credit)

## MATHEMATICS

All students must complete 4 years of mathematics during grades 9-12. Those students successfully completing Algebra in grades 7 or 8 will need to complete a minimum of three years of mathematics in high school. Students must take a sequence of Algebra 1, Geometry, and Algebra 2. The 4<sup>th</sup> math course must be a Level 4 math class for graduation requirements. Most incoming seventh grade students are placed in Pre-Algebra.

Proper placement is very important in order for students to maximize their learning potential. Entry into AA and AP courses is determined by grades in previous Walnut Hills' courses. Incoming seventh grade students who scored 90% or higher on the math portion of the entrance test may opt to take a placement test for Algebra 1 AA. Any incoming eighth through twelfth grade student must take a placement test or speak to the Mathematics Department Chair for appropriate placement.

### **AA Criteria - Mathematics**

#### **Admission:**

1. Students wishing to be admitted to AA courses must have an "A" average in the prerequisite course for both semesters (as determined by the grade matrix for the district) and be recommended by their teacher.
2. Students wishing to petition into AA courses must be recommended by their current math teacher to take a placement test. The student must earn at least 90% on the placement test administered by the Mathematics Department chair.
3. Students entering from outside Walnut Hills must have taken comparable prerequisite courses based on standards and objectives of Walnut Hills and obtained at least an 90% on the placement test administered by the Mathematics Department chair.

#### **Maintaining AA Status:**

1. Students already enrolled in AA courses must maintain at least a "B" average for both semesters to continue in subsequent AA courses.
2. Students who earn less than a "B" average for any semester must petition to enter the subsequent AA course.
3. Students earning less than a "C" average for the first semester or for the third quarter may lose status and be transferred to a regular course as feasible.

#### PRE-ALGEBRA AA

Code: 11274000

This accelerated college preparatory course is a rigorous introduction to Algebra, Geometry, and Probability and Statistics. The course is designed to develop an understanding of mathematics and to prepare students for demanding work in the future academic courses in mathematics. A protractor, graph paper, and a scientific calculator are required.

Prerequisite: None

Term: 2 sem

#### ALGEBRA 1

Code: 1139300Y

This course emphasizes algebraic concepts and the structure of the real number system. The course develops algebraic skills in problem solving and prepares students for succeeding academic courses in mathematics. An appropriate calculator is required (Scientific or Graphing as indicated by instructor). An important aspect of this course is the learning of techniques and problem-solving steps to be applied to more advanced problems in the future.

Prerequisite: Pre-Algebra

Term: 2 sem

Credit: 1.0 unit

#### ALGEBRA 1 AA

Code: 1139400Y

This accelerated college preparatory course is a rigorous course that develops the structure and operations of the real number system and continues students' experiences with geometry and probability and statistics. It stresses algebraic problem solving and prepares students for future courses in mathematics. Seventh grade students in this course should be eligible to take Calculus AP in grade 11 and AP Probability and Statistics in grade 12. Graph paper, and scientific calculator is required.

Prerequisite: Selected grade 7, see criteria above and  
Current Teacher Approval

Term: 2 sem

Credit: 1.0 unit\*\*

#### GEOMETRY

Code: 1150300Y

This course includes deductive and algebraic approaches to plane, solid, and analytic geometry. Logical proof is included. Students will be required to memorize definitions, theorems, and postulates. This course prepares students for future math courses. A protractor, ruler, compass, graph paper and scientific calculator are required.

Prerequisite: Algebra 1

Term: 2 sem

Credit: 1.0 unit

### GEOMETRY AA

Code: 1150400Y

This accelerated college preparatory course emphasizes deductive and algebraic approaches to plane, solid, and analytic geometry. There is emphasis on logical proof. This course prepares pupils for the demands of future math courses. A protractor, ruler, compass, graph paper, and scientific calculator are required.

Prerequisite: Algebra 1, see AA criteria and Current Teacher Approval      Term: 2 sem  
Credit: 1.0 unit\*\*

### ALGEBRA 2

Code: 1161300Y

This course extends the skills and concepts introduced in Algebra 1. Linear and quadratic equations and inequalities are studied. In addition, students study functions, coordinate geometry, trigonometry, matrices, and logarithms. Algebra 2 is a prerequisite for all advanced math courses. A scientific calculator and graph paper are required; a graphing calculator is recommended (TI-83 or TI-84).

Prerequisite: Algebra 1 and Geometry      Term: 2 sem  
Credit: 1.0 unit

### ALGEBRA 2 AA

Code: 1161400Y

This is a rigorous, fast-moving course, which extends the skills and concepts introduced in Algebra 1. The real numbers and their properties are applied in the solution of linear and quadratic equations and inequalities. Knowledge of functions is formalized and trigonometric functions are studied in detail. Matrices and logarithms are also covered. Geometry is reviewed, and probability and statistics continue to be addressed. Much emphasis is placed on theory, mathematical symbolism, and breadth and depth of understanding. This course prepares students for a demanding course in Pre-calculus and is recommended for students who plan to take Pre-Calculus AA followed by AP Calculus. A scientific calculator and graph paper are required; a graphing calculator is recommended (TI-83 or TI-84).

Prerequisite: Algebra 1 and Geometry, see AA criteria      Term: 2 sem  
and Current Teacher Approval      Credit: 1.0 unit\*\*

### PRE-CALCULUS

Code: 1181300Y

Proficiency in algebraic skills is an essential prerequisite. This course surveys a variety of pre-Calculus topics including polynomial, rational, exponential and trigonometric functions over the real and complex numbers. Previously learned algebraic, and geometric concepts are synthesized in preparation for a succeeding course in Calculus. Graph paper and a graphing calculator is required (TI-83 or TI-84).

Prerequisite: Algebra 2 and Geometry      Term: 2 sem  
Credit: 1.0 unit

### PRE-CALCULUS AA

Code: 1181400Y

Mastery of algebraic skills is an essential prerequisite. This course surveys a variety of pre-calculus topics including polynomial, rational, exponential, and trigonometric functions over the real and complex numbers. Much emphasis is placed on theory, mathematical rigor, and breadth and depth of understanding as well as efficacy. A pupil who successfully completes this course is prepared for Calculus AP/AB. Students scoring in the top 20% of this course are prepared for Calculus AP/BC. Graph paper and a graphing calculator is required (TI-83 or TI-84).

Prerequisite: Algebra 2 and Geometry, see AA criteria      Term: 2 sem  
and Current Teacher Approval      Credit: 1.0 unit\*\*

### PROBABILITY AND STATISTICS

Code: 11713Y0Y

Today more than ever, statistics plays an important role in our lives. This course covers experimental design, uses and abuses of statistics, frequency distributions and their graphs, and measures of central tendency. There will be some emphasis on probability, but the focus of the course will be on probability distributions, confidence intervals, hypothesis testing, linear regression, and various statistical tests. This course does not replace Pre-Calculus and may be taken before, after, or concurrently with Pre-Calculus. Graph paper and graphing calculator is required (TI-83 or TI-84).

Prerequisite: Algebra 2      Term: 2 sem  
Credit: 1.0 unit

### CALCULUS AA

Code: 1182400Y

This honors mathematics course teaches basic differentiation and integration at a comfortable pace. The coursework begins by reviewing the essential skills taught in prior math courses. Calculus AA is application-oriented and designed to meet the needs of students planning to major in business, management, economics, and the life or social sciences. Applications include but are not limited to: cost, revenue, profit, distance, velocity, and acceleration. Concepts are taught using both algebraic and graphic methods. Graph paper and a graphing calculator is required (TI-83 or TI-84).

Prerequisite: Pre-Calculus      Term: 2 sem  
Credit: 1.0 unit\*\*

AP CALCULUS AB

Code: 11825A0Y

This course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, geometry, trigonometry, and analytic geometry. The course concerns itself with the integral and differential calculus of the elementary functions, following a curriculum governed by the College Board. A reasonable degree of rigor is demanded, but the theorems are not proved by the students. The AP/AB exam is a requirement of the course. A score of “3” or higher on the AP exam equals one semester or two quarters credit at most universities. Graph paper and a graphing calculator is required (TI-83 or TI-84). There is a \$20 fee for the review booklet.

Prerequisite: Pre-Cal AA or “A” in Pre-Calc and Teacher Approval      Term: 2 sem  
Credit: 1.0 unit\*\*

AP CALCULUS BC

Code: 11825BOY

Calculus AP BC is a standard, rigorous, first-year integral and differential calculus course, the scope of which is controlled by the College Board. In addition to the topics covered in Calculus AP/AB, sequences and series, elementary differential equations, parametric and polar functions, vector calculus and slope fields are covered. A score of “3” or higher on the AP exam equals two semesters or three quarters credit at most universities. Graphing calculator is required (TI-83 or TI-84). There may be a \$20 fee for a review booklet. Only students with extremely high mathematical prowess should attempt this course.

Prerequisite: Approval by AP Calculus BC teacher      Term: 2 sem  
Credit: 1.0 unit\*\*

AP CALCULUS BC (Honors)

Code: 11825BOY

This course begins with a review of the topics in Calculus AP AB. The additional topics from Calculus AP BC are then covered in a more leisurely and thorough manner than is possible during the time frame of the BC course. The BC exam is required at the end of the course. There is a \$20 fee for review materials.

Open to: Grade 12      Term: 2 sem  
Prerequisite: Approval by AP Calc BC Honors teacher      Credit: 1.0 unit\*\*

AP COMPUTER SCIENCE A (also listed under computer science)

Code: 25A2500Y

AP Computer Science A is all about problem-solving. This course covers the material in an introductory Computer Science college course, and is intended for students with no or some prior computing experience. The course uses the Java language to teach fundamental computer programming skills and follows an object-oriented approach emphasizing data structures, abstractions, and algorithm development and analysis. The course includes more than 20 hours of lab work in which students develop programs modeling real-world situations. In the labs students might build a zoo, encrypt messages, imitate a psychotherapist, validate credit card numbers, or teach the computer to play poker. This course can qualify as a math credit for graduation. Students taking a double-bell science course may be allowed to take this course in the “off” days of their double bell science course. To compare this course with AP Computer Science Principles: This course concentrates on writing programs and the theory of programming, while AP Computer Science Principles concentrates on the ways computer science can be used in other fields.

Open to: Grades 11, 12      Term: 1 year  
Pre-requisite: Algebra II and approval of course instructor      Credit: 1.0 \*\*

AP STATISTICS

Code: 1172500Y

AP Statistics is a rigorous college-level introductory statistics course that follows the curriculum governed by the College Board. The four major themes are: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. The course includes the use of technology, projects and laboratories, cooperative group problem solving, and writing. The course may be taken concurrently with Pre-Calculus, Calculus, and/or Engineering. Taking the AP exam is required. Students must have a graphing calculator. (TI-83, TI-84 or TI-Nspire).

Open to: Grades 10, 11, 12      Term: 2 sem  
Prerequisite: Algebra 2AA or Algebra 2, and Teacher Approval      Credit: 1.0 unit\*\*  
A grade of an “A or B” in these courses

ENGINEERING FOUNDATIONS/ ENGINEERING MODELS 1

Engineering Foundations & Models are integrated in one period throughout the year (students must enroll in both.) Engineering Foundations & Models serve as an introduction to all fields of engineering. This course is weighted as an AP Course, but there is no AP Exam, and two 2-hour semester college credits may be earned through Ohio's College Credit Plus Program. It is recommended that students who plan to major in engineering take physics and calculus prior to or concurrently with this program. Students may receive either math or science credit for this course. There is a \$20 lab fee.

**Engineering Foundations** includes hands on labs that allow students to explore mechanical, electrical, structural, industrial, and other fields of engineering with an emphasis on the Engineering Design Process, while working in long term teams. Students will design, model, build, analyze, and evaluate a 25 ft. long roller coaster as their second semester project. Students will also receive training in engineering graphics (3D visualization, sketching, and CAD), engineering ethics and in professional skills such as communication, teamwork, problem-solving, presentation, project documentation, and synthesis.

**Engineering Models 1** is designed to develop good problem solving techniques and to illustrate how engineers use mathematics to solve a variety of practical and often complex problems. Basic MATLAB programming will be used as a tool for exploring engineering applications, to investigate solutions, to problems too complex for hand solution, and to develop an appreciation of the power and limitations of digital computation (topics include arrays and operations, simultaneous linear equations, data analysis, functions).

Open to: Grade 12

Prerequisite: Pre-Calculus, Chemistry, and Teacher Approval

Term: 2 sem

Credit: 1.0 unit\*\*

MULTIVARIABLE CALCULUS

Code: 119350DY

This course is designed for students who complete AP Calculus BC, and is equivalent to a second year college level class for engineers and mathematics majors. Single variable topics not covered in the BC course such as surface area, work and hyperbolic functions are addressed first. Multivariable topics include space curves and surfaces, cylindrical and spherical coordinates, partial derivatives, optimization, gradient vectors, LaGrange Multipliers, vector functions, vector fields, double and triple integrals, line integrals, surface integrals, Green's Theorem and Stokes' Theorem. This course is weighted as an AP course, but there is no AP exam. A four hour semester college credit may be earned through Ohio's College Credit Plus Program.

Open to: Grades 12

Prerequisite: AB Calculus BC

Term: 2 sem

Credit: 1.0 unit\*\*

MODERN WORLD LANGUAGES & CULTURES

A Modern Language may be started as early as grade 7. Begin as early as possible and continue for at least three years to develop proficiencies in listening, speaking, reading, and writing. A long sequence of study makes it possible for motivated students to take the Advanced Placement Language and Culture course in their 4<sup>th</sup> or 5<sup>th</sup> year of study. There are three tracks of Modern Language study. Each leads to either Level 4AA or the Advanced Placement Language and Culture course. Most students begin their language study in the college-preparatory level 1 course. Highly motivated students and students with previous experience with the language are encouraged to begin in the 1AA course. The student's experience, academic progress, and motivation are considered in placement and testing is provided as needed.

Current students: Students may select the Level 1 course without a teacher signature. However, students who want to begin at 1AA or higher must have their optioning form signed. Before asking for the signature, fill out the language information form. Bring this completed form to the current 1AA language teacher or to the department chair to request the approval and signature. Any needed placement testing will be scheduled.

New students: Students entering the school with high school credit with a grade of C or higher in the language should select the next regular level course. Students who are unsure of their readiness for the courses at Walnut Hills should request placement testing. Placement in any AA course beyond 1AA requires testing and such students should have earned their previous credit with a grade of A. Testing should be scheduled as early as possible to account for summer assignments.

Admission to the AA courses:

1. 1AA – This course requires approval and signature of the current 1AA language teacher. This course is open to current students with a minimum 3.0 average, including a 3.0 average in Latin and English, with no Cs. Students who are new to the school will be evaluated individually and must fill in the student language information form which is in the registration packet.

\*\* indicates a weighted course

2. 2AA, 3AA, 4AA – These courses require the approval and signature of the current teacher. Students from AA classes must maintain at least a B average in the first and second semesters to maintain AA status. Students new to the school must take a placement test. Students from Level 2 or Level 3 courses require As in all marking periods of the previous course and the recommendation of the teacher.
3. All placements are subject to re-evaluation. To maintain status in an AA or AP course the student must maintain an A or B average in the course.

There is a \$25 Modern World Language Fee, which covers online workbook licenses or hard copy workbooks, language lab costs for software and hardware, and national and state tests and contests.

### Foreign Language Course Tracks

	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
<b>Track 1</b>	Level 1	Level 2	Level 3	Level 4AA	AP Level
<b>Track 2</b>	Level 1AA	Level 2AA	Level 3AA	Level 4AA or AP Level	AP Level
<b>Track 3</b>		Level 1AA	Level 2AA	Level 3AA	AP Level

Since the College Board equates all AP Modern World Language and Culture courses to a third year university level, we strongly recommend that your child begin his or her language studies in the 8th grade. Your student will still have an opportunity to complete the AP foreign language track if he or she enrolls in Level 1 AA during the 9th grade.

#### CHINESE 1

Code: 0661300Y

Mandarin Chinese 1 is an introductory language course. The focus is on developing Novice-Mid level proficiencies in the three modes of communication. Through thematic units, students acquire basic vocabulary and grammar. There is a thematic approach toward building basic vocabulary and language structures in preparation for the Level 2 course.

Open to: Grades 8, 9, 10, 11, 12

Term: 2 sem

Prerequisite: None

Credit: 1.0 unit

#### CHINESE 2

Code: 0662300Y

The focus is on developing Novice-Mid level proficiencies and on approaching the Novice-High level proficiencies in the three modes of communication. Through thematic units, students acquire basic vocabulary and grammar. There is a thematic approach toward building basic vocabulary and language structures in preparation for Chinese 3.

Open to: Grades 9, 10, 11, 12

Term: 2 sem

Prerequisite: Chinese 1

Credit: 1.0 unit

#### CHINESE 3

Code: 0663300Y

This course builds on the proficiencies learned in Chinese 1 and 2. The focus is on further development of listening, reading, writing and speaking skills at the Novice High to Intermediate Low level according to the American Association of Teachers of Foreign Languages proficiency levels.

Open to: Grades 10, 11, 12

Term: 2 sem

Prerequisite: Chinese 2

Credit: 1.0 unit

#### FRENCH 1

Code: 0611300Y

French I provides an introduction to elementary grammar, conversational French and beginning French readings. The class further uses an audio program which stresses everyday language and culture. French I is a preparation for French 2.

Open to: Grades 9, 10, 11, Select 12 (placement w/permission only)

Term: 2 sem

Prerequisite: None

Credit: 1.0 unit

#### FRENCH 1 AA

Code: 06114700

French 1AA is an accelerated course combining material from levels 1 and 2. The focus is on developing novice level proficiencies in the three modes of communication. In the context of thematic lessons, there is an emphasis on building vocabulary and a foundation in beginning language structures. Successful students may be recommended for the 2AA course in the following year. Students are required to participate in national language testing.

Open to: Grades 9, 10 and select 11

Term: 2 sem

Prerequisite: Current Teacher Approval

Credit: 1.0 unit\*\*

### FRENCH 2

Code: 0612300Y

French 2 reviews the language and continues the development of the skills begun in French 1. At this level students increase their ability to speak and write the language and to comprehend spoken and written French through the intensive study of grammar, composition, vocabulary and several supplementary materials. In reading, the emphasis is on the French culture and an introduction to Francophone cultures.

Open to: Grades 10, 11, 12, Select 9

Term: 2 sem

Prerequisite: French 1

Credit: 1.0 unit

### FRENCH 2 AA

Code: 0612400Y

French 2AA is an accelerated course combining materials from level 2 and level 3. The focus is on the development of beginning intermediate proficiency in listening, reading, writing and speaking in the context of thematic readings, discussions, writing, pair and group activities and presentations. The course includes intensive study of grammar. This course requires a summer assignment and participation in national language testing.

Open to: Grades 10, 11, Select 9

Term: 2 sem

Prerequisite: French 1 AA and Teacher Approval

Credit: 1.0 unit\*\*

### FRENCH 3

Code: 0613300Y

This course focuses on proficiency in listening, reading, writing and speaking at the beginning intermediate level in the context of thematic readings, discussions, pair and group conversation.

Open to: Grades 10, 11, 12

Term: 2 sem

Prerequisite: French 2 with minimum grade of C

Credit: 1.0 unit

### FRENCH 3AA

Code: 0613400Y

This accelerated course focuses on continuing to build skills in listening, speaking, reading and writing as the advanced student prepares for high intermediate study in the French 4 or the French Language AP course. Students are required to participate in national language testing.

Open to: Grades 10, 11, 12

Term: 2 sem

Prerequisite: French 2AA and Current Teacher Approval

Credit: 1.0 unit\*\*

### FRENCH 4AA

Code: 0614300Y

The French 4 course helps students retain and improve skills of speaking, listening, reading, and writing acquired in the prerequisite courses. Genres such as poetry, short story, drama, and the novel may be studied. Other media such as films and music will also be used to broaden the student's appreciation and understanding of French. Spoken French will be stressed in class as well as essay writing. Students are required to participate in national language testing.

Open to: Grades 11,12

Term: 2 sem

Prerequisite: French 3AA or French 3

Credit: 1.0 unit\*\*

### AP FRENCH LANGUAGE AND CULTURE

Code: 0613500Y

The AP French Language and Culture course develops student proficiencies in the interpersonal, interpretive, and presentation modes of communication as defined in the Standards for Foreign Language Learning in the 21<sup>st</sup> Century and in the ACTFL Performance Guidelines for K-12 Learners. The curriculum centers on the integration of communication skills in listening, reading, speaking and writing in the context of 6 themes: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Beauty and Aesthetics, and Family and Community. Language is studied through authentic audio and written sources and student skill levels are developed in the intermediate to pre-advanced range. The curriculum includes access to internet-based audio and written sources during class and language lab. Students need internet access with listening and recording capabilities outside of class. Completion of a summer assignment is required. Students are required to participate in national language testing.

Open to: Grades 11, 12

Term: 2 sem

Prerequisite: French 4AA and Teacher Approval

Credit: 1.0 unit\*\*

### GERMAN 1

Code: 0621300Y

German 1 is an introductory language course. The focus is on developing novice-mid level proficiencies in the three modes of communication. Through thematic lessons, students acquire basic vocabulary and language structures in preparation for the Level 2 course.

Open to: Grades 9, 10, 11, Select 12

Term: 2 sem

Prerequisite: None

Credit: 1.0 unit

GERMAN 1 AA

Code: 0621400Y

German 1AA is an accelerated introductory language. The course covers level 1 and introduces level 2 structures and vocabulary. The focus is on acquiring novice-mid level proficiencies and on approaching the novice-high level proficiencies in the three modes of communication. Through thematic units students acquire basic vocabulary and grammar and a solid foundation in language structures in preparation for accelerated 2AA. Students are required to participate in national language testing.

Open to: Grades 9, 10, and select 11

Term: 2 sem

Prerequisite: Application and Teacher Approval

Credit: 1.0 unit\*\*

GERMAN 2

Code: 0622300Y

In German 2 students continue to learn to understand, speak, read and write German. The class emphasis is on learning to speak in conversation; thus, great stress is given to the study of grammar, vocabulary, and writing skills. Videos, CD recordings, and supplementary readers provide insight into the culture and heritage of Germany.

Open to: Grades 10, 11, 12 Select 9

Term: 2 sem

Prerequisite: German 1

Credit: 1.0 unit

GERMAN 2 AA

Code: 0622400Y

This course precedes the German 3AA or the Advanced Placement course. Materials of a second and third year level of study provide the background for the student's increasing skills in discussing various topics in German. Grammar is studied intensively as a basis for effective oral and written communication. Readings about life in Germany enhance cultural awareness. Students are required to participate in national language testing.

Open to: Grade 10, 11, Select 9

Term: 2 sem

Prerequisite: German 1, German 1AA and Teacher Approval

Credit: 1.0 unit\*\*

GERMAN 3

Code: 0623300Y

This course helps students retain and improve their skills in listening, speaking, reading and writing. Since most of the formal grammar has been presented in earlier courses, the emphasis here is on applying learned skills to new and varied situations and engaging in more interesting reading and writing activities. This course also serves as a link to German AP or German IV.

Open to: Grades 10, 11, 12

Term: 2 sem

Prerequisite: German 2 with minimum grade of C

Credit: 1.0 unit

GERMAN 3AA

Code: 0624300Y

This accelerated course helps students retain and improve their skills in listening, speaking, reading and writing. The emphasis here is on applying learned skills to new and varied situations and engaging in more interesting reading and writing activities. This course also serves as a link to German AP or to German 4. Students are required to participate in national language testing.

Open to: Grades 10, 11, 12

Term: 2 sem

Prerequisite: German 2AA and Teacher Approval

Credit: 1.0 unit\*\*

GERMAN 4AA

Code: 0624400Y

This German course is designed to reinforce and improve the linguistic skills of speaking, listening, reading and writing. The various literary genres of the novel, essay, short essay, short story, drama and poetry may be studied. Varied cultural and social topics will be used as a basis for essay writing and oral discussions. Spoken German will be stressed in class. Opportunity will be provided to pursue individual interests. Students are required to participate in national language testing.

Open to: Grades 11, 12

Term: 2 sem

Prerequisite: German 3

Credit: 1.0 unit\*\*

AP GERMAN LANGUAGE AND CULTURE

Code: 0623500Y

The AP German Language and Culture course develops student proficiency in the interpersonal, interpretive and presentation modes of communication as defined in the Standards for Foreign Language Learning in the 21<sup>st</sup> Century and in the ACTFL Performance Guidelines for K-12 Learners. The curriculum centers on the integration of communication skills in listening, reading, speaking and writing in the context of 6 themes: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Beauty and Aesthetics, and Family and Community. Language is studied through authentic audio and written sources and student skill levels are developed in the intermediate to pre-advanced range. Completion of a summer assignment is required. Students are required to take the AP German Exam and the national language testing.

Open to: Grades 11, 12

Term: 2 sem

Prerequisite: German 3AA or German 4AA and Teacher Approval

Credit: 1.0 unit\*\*



RUSSIAN 1AA

Code: 0681400Y

Russian 1AA is an accelerated introductory language course. The focus is on developing beginning to Novice-Mid level proficiencies in listening, speaking, reading and writing in the context of learning about the Russian cultural heritage.

Open to: Grades 8, 9, 10, 11, 12

Term: 2 sem

Prerequisite: Application and Teacher Approval

Credit: 1.0 unit\*\*

RUSSIAN 2AA

Code: 0682400Y

This is a rigorous second year course in the Russian language. The focus is on developing mid-novice level proficiencies and higher in listening, speaking, reading and writing in the context of learning about the Russian cultural heritage.

Open to: Grades 10, 11, 12

Term: 2 sem

Prerequisite: Russian 1AA and Teacher Approval

Credit: 1.0 unit\*\*

RUSSIAN 3AA

Code: 0683400Y

This course builds on the proficiencies learned in Russian 1AA and 2AA. The focus is on further development of listening, reading, writing and speaking skills at the Novice High to Intermediate Low level according to the American Association of Teachers of Foreign Languages proficiency levels.

Open to: Grades 10, 11, 12

Term: 2 sem

Prerequisite: Russian 2AA and Teacher Approval

Credit: 1.0 unit\*\*

RUSSIAN 4AA

Code: 0688400Y

This course builds on the proficiencies learned in Russian 1AA, 2AA and 3AA. The focus is on further development of listening, reading, writing and speaking skills at the Novice High to Intermediate Low level according to the American Association of Teachers of Foreign Languages proficiency levels.

Open to: Grades 11, 12

Term: 2 sem

Prerequisite: Russian 3AA and Teacher Approval

Credit: 1.0 unit\*\*

SPANISH 1

Code: 0651300Y

Spanish 1 provides an introduction to elementary grammar, conversational Spanish, and beginning Spanish reading. The focus of the program is on vocabulary acquisition, grammatical usage, sound discrimination, and everyday conversation. Students learn to understand and to appreciate the history, civilization and culture of Spanish-speaking areas of the world. Students are provided with a cassette program for the classroom and the language lab, which stresses everyday language and culture.

Open to: Grade 9, 10, 11

Term: 2 sem

Prerequisite: None

Credit: 1.0 unit

SPANISH 1 AA

Code: 0651400Y

Spanish 1AA is an accelerated course combining material from levels 1 and 2. The focus is on developing novice level proficiencies in the three modes of communication. In the context of thematic lessons, there is an emphasis on building vocabulary and a foundation in beginning language structures. Successful students may be recommended for the 2AA course in the following year.

Open to: Grades 9, 10, select 11

Term: 2 sem

Prerequisite: Current Teacher Approval

Credit: 1.0 unit\*\*

SPANISH 2

Code: 0652300Y

The objective of Spanish 2 is to help each student attain an acceptable degree of proficiency in the four skills of listening, reading, speaking, and writing. In addition, the language is presented within the context of the contemporary Spanish-speaking world and its culture. New material and review of material presented in Spanish 1 are part of this course. Considerable emphasis is placed on speaking and listening for which the language laboratory may be used. Supplementary reading of short stories, articles and essays is also included. Students are expected to write short paragraphs relating to the topics studied.

Open to: Grade 9, 10, 11, 12

Term: 2 sem

Prerequisite: Spanish 1

Credit: 1.0 unit

### SPANISH 2 AA

Code: 0652400Y

Spanish 2 AA is an accelerated course, which combines the content of Spanish 2 and 3 and leads to the Advanced Placement course. The goal of the course is to increase the communication skills of listening, reading, speaking, and writing. Grammar is studied as the basis for effective oral and written communication. Short readings are completed throughout the year to aid in the development of reading skills, to increase vocabulary, and to expand cultural awareness. Written work is based on the oral topics and reading materials covered in class. Completion of a summer assignment consisting of reading and writing is required prior to the beginning of the course.

Open to: Grades 9, 10, 11, 12

Term: 2 sem

Prerequisite: Spanish 1 AA and Teacher Approval

Credit: 1.0 unit\*\*

### SPANISH 3

Code: 0655300Y

Spanish 3 continues the emphasis on listening, speaking, reading, and writing. Listening occurs both in the classroom and in the language lab. Speaking, both individually and in groups, covers current topics as well as topics suggested in the textbooks. Reading of various types of Spanish literature continues to introduce the student to Spanish and Spanish-American culture. Writing from individual sentences to essays enables the student to further develop communication skills.

Open to: Grades 10, 11, 12

Term: 2 sem

Prerequisite: Spanish 2 with minimum grade of C

Credit: 1.0 unit

### SPANISH 3AA

Code: 0653400Y

This accelerated course focuses on continuing to build intermediate proficiencies in listening, speaking, reading and writing with a greater focus on authentic sources and the development of conversational skills. Successful students may be recommended for the AP course in the following year.

Open to: Grades 10, 11, 12

Term: 2 sem

Prerequisite: Spanish 2AA, 3, and Teacher Approval

Credit: 1.0 unit\*\*

### SPANISH 4AA

Code: 0654300Y

Spanish 4 continues the development of the linguistic skills of speaking, listening, reading and writing. The various literary genres including the novel, essay, short story, drama, and poetry may be studied. Class will be conducted primarily in Spanish. Opportunity will be provided for individual interests.

Open to: Grades 11, 12

Term: 2 sem

Prerequisite: Spanish 2 AA or Spanish 3

Credit: 1.0 unit\*\*

### AP SPANISH LANGUAGE AND CULTURE

Code: 0653500Y

The AP Spanish Language course and examination cover the equivalent of a third-year college course in advanced Spanish composition and conversation stressing oral skills, composition and grammar. The course emphasizes the use of Spanish for active communication. It has the following objectives: 1) the comprehension of formal and informal spoken Spanish; 2) the acquisition of vocabulary and a grasp of language structure to allow for the easy, accurate reading of newspaper and magazine articles as well as modern Hispanic literature; 3) the ability to compose expository passages; 4) the ability to express ideas orally with accuracy and fluency. The AP exam is a requirement of the course. There is a reading and writing assignment during the summer preceding the course.

Open to: Grade 11, 12 or Native Speakers

Term: 2 sem

Prerequisite: Spanish 3AA, Spanish 4AA and Teacher Approval

Credit: 1.0 unit\*\*

## MUSIC

Students must complete one semester of music in grade 7 or 8. Also, one fine art credit must be completed in the senior high.

### Band Class Offerings

Grades 7 – 8 Code: 12C71000

Grade 9 Code: 12C91000

### BEGINNING BAND

Beginning Band provides an introduction to the basic skills of playing a wind or percussion instrument. Emphasis is placed on the individual student's ability to produce a good tone, demonstrate a basic technical command of the instrument, and develop skills in reading music. Students will be required to attend one evening concert. Purchase of a methods book (\$10) and performance attire (white shirt/blouse and black slacks/skirt with black dress shoes) is required. Instrument rentals from local stores range from \$25 to \$55 depending on instrument choice. Private instruction is encouraged.

Open to: Grade 7, 8, 9

Term: 1 sem

Prerequisite: None

Credit: 0.5

(Fine Art Credit for 9<sup>th</sup>)

### INTERMEDIATE BAND

Grade 9 Code: 12E3100Y

Intermediate Band serves as a second year class to continue the development of skills learned in Beginning Band. Emphasis is placed on technical development and ensemble playing. The Intermediate Band is required to perform in two public concerts and may participate in music contests, and festivals. Students must be able to attend occasional after-school and evening rehearsals. Students must own or rent an instrument by the end of the first week of school. Purchase of three method books (\$30), and performance attire (white shirt/blouse and black dress slacks/skirt with black dress shoes) is required. Students will be charged a \$30 Band Fee which will help with equipment purchases and music. Private lessons are encouraged.

Open to: Grade 7, 8, 9

Term: 2 sem

Prerequisite: Beg. Band or two years of Elementary  
Band instruction and Teacher Approval

Credit: 1.0 unit  
(Fine Art Credit)

### JUNIOR BAND

Grade 9 Code: 12F9100Y

The Junior Band serves as a training ensemble for Senior Band. Emphasis is placed on continued development of technical and ensemble playing through the use of scales, chorales, and band literature. The Junior Band is required to perform in two public concerts. Students must be able to attend occasional after-school and evening rehearsals. Students must own or rent an instrument by the end of the first week of class. Purchase of a method book (\$10) and performance attire (white shirt/blouse and black dress slacks/skirt with black dress shoes) is required. Students will be charged a \$25 Band Fee which will help with equipment purchases and music. Private lessons are encouraged.

Open to: Grades 7, 8, 9

Term: 2 sem

Prerequisite: Beg. Band or Int. Band  
Teacher Approval

Credit: 1.0 unit  
(Fine Art Credit)

### SENIOR BAND

Code: 12H3100Y

The Marching Band, including Color Guard, performs during first semester at football games, marching competitions, and local parades. Students will be required to participate in a three-week summer band camp which will take place three weeks prior to the beginning of school. Anticipated band camp costs are not to exceed \$600. All color-guard members will pay an additional \$65 fee to cover equipment use. Students must make a major time commitment during first quarter. All must participate in after-school rehearsals during the school week. Once registered, no member may withdraw without Director approval. Students who do not fulfill this obligation will receive an "X" for the quarter. All members of the Marching Band in grades 8, 9, 10, 11, 12 including the Color Guard members, will receive gym credit for their participation in the Marching Band; however, you must participate for 2 years and turn in proper paperwork to receive credit.

Color Guard is by audition and only meets first quarter. Auditions for Senior Bands (Wind Ensemble, Symphonic Band, and Concert Band) will take place in the fall of that school year. Senior Band members who do not participate in Marching Band will be enrolled in a fall indoor band until the conclusion of the Marching Band season. The Indoor band will have a 2<sup>nd</sup> quarter concert. After marching band the Senior Band members will be divided by audition into three performing groups: the Wind Ensemble, the Symphonic Band, and the Concert Band (if needed). The Wind Ensemble provides select positions to establish a well-balanced ensemble capable of performing college level band literature. The Symphonic Band serves as a stepping-stone to Wind Ensemble by providing select positions to establish a well-balanced ensemble capable of performing high school band literature. The Concert Band provides students who were not selected to the Wind Ensemble or Symphonic Band an opportunity to continue developing technical and ensemble skills. Students must be able to participate in occasional after-school rehearsals. All groups will perform in evening concerts. Performance attire is tuxedos for the men and long, black formal dresses (not to exceed \$100) for the women. Information regarding the ordering of the dresses will come from the directors. Students will be charged a \$25 Band Fee which will help with equipment purchases and music.

Open to: Grades 7-12

Term: 2 sem

Prerequisite: Teacher Approval

Credit: 1.0 unit  
(Fine Art Credit)

## Orchestra Class Offerings

Grades 7-8 Code: 12D81000

Grade 9 Code: 12D91000

### BEGINNING STRINGS

This course provides an introduction to and drills in the basic skills of playing a stringed instrument (violin, viola, cello, or bass). Emphasis is placed on the individual student's ability to produce a good tone, play in first position on all four strings, and have basic skills in reading music. Students are given an introduction to ensemble playing by performing in at least one public concert. Students must own or rent an instrument by the end of the first week of class. Purchase of textbooks (not to exceed \$10) is also required. Performance attire for girls is a white shirt/blouse and black knee-length skirt or longer/black dress slacks and black dress shoes. Performance attire for boys is a white shirt and black dress pants with black socks and black dress shoes.

Open to: Grades 7, 8, 9

Prerequisite: None

Term: 1 sem

Credit: 0.5 unit

(Fine Art Credit for 9<sup>th</sup>)

Grades 7-8 Code: 12G81000

Grade 9-12 Code: 12G9100Y

### JUNIOR STRING ORCHESTRA

This course is a continuation of the string fundamentals begun in Beginning Strings and is also the training ensemble for Senior Orchestra. The emphasis is on technical and ensemble playing skills including shifting, vibrato and tuning. The Junior String Orchestra is required to perform in two public concerts. Students must be able to attend occasional after-school and evening rehearsals. Students must own or rent an instrument by the end of the first week of class. Performance attire for girls is black dress or black blouse and black dress slacks with black dress shoes. Performance attire for boys is a tuxedo shirt and bow tie (purchased through the music department and not to exceed \$25) and black dress slacks with black socks and black dress shoes. A \$15 orchestra fee will be charged to all students. Private lessons are encouraged.

Open to: Grades 7-12

Prerequisite: Teacher Approval/Audition

Term: 2 sem

Credit: 1.0 unit

(Fine Art Credit)

### SENIOR ORCHESTRA

Code: 12J3100Y

This course is a continuation of the string fundamentals applied in Junior Orchestra and is the training ensemble for Chamber Orchestra. The emphasis is on ensemble skills and more advanced position work for all members. Members must be able to demonstrate vibrato and shifting. The literature performed is classified as high school B and C level by the Ohio Music Educators Association. Students are required to participate in all activities including after-school, evening, and weekend rehearsals and performances. Performance attire for girls is long, black, formal dresses that must be purchased through the music department (not to exceed \$100). Performance attire for boys is tuxedos (rented from the music department for \$25) and a tuxedo shirt and bow tie (purchased through the music department for \$25). A \$15 orchestra fee will be charged to all students. Private instruction is highly encouraged.

Open to: Grades 7-12

Prerequisite: Prior Orchestra Experience and Audition

Term: 2 sem

Credit: 1.0 unit

(Fine Art Credit)

### CHAMBER ORCHESTRA

Code: 12G31C0Y

This course provides a continuation of string disciplines begun in Senior Orchestra. Performance and a quantitative as well as qualitative approach to the body of chamber literature are stressed. Students must be able to participate in all activities including after school, evening, and weekend performances and rehearsals as scheduled by the director. Students must own or rent an instrument. Students must pay a uniform fee not to exceed \$100. Performance attire for girls is long, black, formal dresses that must be purchased through the music department. Performance attire for boys is tuxedos (rented from the music department for \$25) and a tuxedo shirt and bow tie (purchased through the music department for \$25). A \$15 orchestra fee will be charged to all students. Private instruction is essential.

Open to: Grades 7-12

Prerequisite: Prior Orchestra Experience and Audition

Term: 2 sem

Credit: 1.0 unit

(Fine Art Credit)

## Choir Class Offerings

### BEGINNING CHOIR

Grades 7-8 Code: 12B31YOO

This is an introductory course for junior high singers. Emphasis is placed on the basics of proper individual and group singing including posture, tone, intonation, blend and balance. Special attention is given to issues relating to the male changing voice in instruction and choice of music. Instruction also stresses music reading skills including knowledge of treble and bass clef, beginning rhythmic concepts, sight-singing syllables, and music terminology. The choral literature performed will be unison through three-part harmony, with some introduction to four-part music. Also, students are required to participate in one public performance. Performance attire is black skirts and white shirt/blouse for girls and black pants, white shirt and straight black tie for boys. Private instruction is encouraged. A \$15 choir fee will be charged to all students.

Open to: Grades 7, 8

Prerequisite: None

Term: 1 sem

Credit: 0.5 unit

(Fine Art Credit for 9th)

### JUNIOR CHOIR

Grades 7 – 8 Code: 12B3110

This is an advanced level of junior high choir and is a continuation of Beginning Choir. This course briefly reviews the vocal and music reading concepts introduced in Beginning Choir and continues in both areas on a more advanced level. The choral literature performed will be largely four-part SATB music with an introduction to further divisions in all voice parts. Students are required to participate in two public performances and may participate in additional school/civic functions, contests and festivals. Performance attire is black skirts/black top or black dress for girls and black pants, white tuxedo shirt and black bow tie for boys. Private instruction is encouraged. A \$20.00 choir fee will be charged to all students.

Open to: Grades 7, 8

Prerequisite: Teacher Approval  
Completion of Beginning Choir

Term: 2 sem

Credit: 1.0 unit

(Fine Art Credit)

### SENIOR CHOIR

Code: 1213100Y

This course begins the high school portion of the choral program. This course applies the previously-learned vocal and choral techniques and music reading skills to advanced choral literature from a variety of musical styles, time periods and world cultures. The literature used is four-part SATB music with divisions in all voice parts and includes some a cappella music. Students are required to participate in all activities including after-school, evening and weekend rehearsals and performances. Performance attire is black concert dresses for women and tuxedos for men. These outfits are provided by the school with students supplying their own shoes (women & men) and tuxedo shirts and ties (men). There is a \$30 participation fee for all members. Private instruction is strongly encouraged.

Open to: Grades 9, 10

Prerequisite: Teacher Approval  
Completion of Junior Choir

Term: 2 sem

Credit: 1.0 unit

(Fine Art Credit)

### WOMEN'S ENSEMBLE

Code: 12136W0Y

This auditioned high school choral course follows Senior Choir. It is an ensemble for women's voices only and focuses on SSA literature. Female students selected must have strong vocal and music reading skills and demonstrate confident musical independence. The literature performed is on an advanced level and represents a variety of musical styles, time periods, languages and world cultures. Students are required to participate in all activities including after-school, evening and weekend rehearsals and performances. Performance attire is black concert dresses with students supplying their own shoes. There is a \$30 participation fee for all members. Private instruction is strongly encouraged.

Open to: Grades 10, 11, 12

Prerequisite: Teacher Approval by audition  
Completion of Senior Choir

Term: 2 sem

Credit: 1.0 unit

(Fine Art Credit)

### MEN'S ENSEMBLE

Code: 12131H0Y

The auditioned high school choral course follows Senior Choir. It is an ensemble for men's voices only and focuses on TTB literature. Male students selected must have strong vocal and music reading skills and demonstrate confident musical independence. The literature performed is on an advanced level and represents a variety of musical styles, time periods, languages and world cultures. Students are required to participate in all activities including after-school, evening and weekend rehearsals and performances. Performance attire is black tuxedos with students supplying their own shirt, tie and shoes. There is a \$30 participation fee for all members. Private instruction is strongly encouraged.

Open to: Grades 10, 11, 12

Prerequisite: Teacher Approval by audition  
Completion of Senior Choir

Term: 2 sem

Credit: 1.0 unit

(Fine Art Credit)

**SENIOR VOCAL ENSEMBLE**

Code: 12P3100Y

This auditioned high school choral course follows Senior Choir and/or Women's Ensemble and is a small, a cappella ensemble expected to perform at the highest quality level. Students selected must have strong vocal and music reading skills and demonstrate confident musical independence. The SATB literature performed is on the college level and represents a variety of musical styles, time periods, languages and world cultures. Students are required to participate in all activities including after-school, evening and weekend rehearsals and performances. Performance attire is black concert dresses for women and tuxedos for men. These outfits are provided by the school with students supplying their own shoes (women & men) and tuxedo shirts and ties (men). There is a \$30 participation fee for all members. Private instruction and taking AP Music Theory is strongly encouraged.

Open to:	Grades 11, 12	Term:	2 sem
Prerequisite:	Teacher Approval by audition Completion of Senior Choir	Credit:	1.0 unit (Fine Art Credit)

**Program Enhancement Class Offerings**

Students must complete one semester of music in grades 7 or 8. Also, one fine art credit must be completed in the senior high. In addition to a wide variety of performance courses, Music Theory AP is available for advanced students.

**BEGINNING STEEL DRUM BAND**

Code: 12H31D00

This course will act as an introduction to performing on the steel drums. All the fundamental elements of music will be applied to the drums. Students will learn a variety of musical styles including soca, calypso, reggae, and the samba. In addition to performing on the pan, students will study the history of Trinidad and how the pan was created. Participation in a public performance at the end of the semester will be required. An instrument user fee of \$50 and a uniform fee of \$20 will be charged.

Open to:	Grades 8-12 – Maximum enrollment-25	Term:	1 sem
Prerequisite:	Teacher Approval	Credit:	0.5 unit (Fine Art Credit)

**INTERMEDIATE STEEL DRUM BAND**

Code: 12H22D0Y

This course will act as a continuation of the Beginning Steel Drum Band class. In addition to the techniques and styles taught in the beginning class the students will be introduced to more advanced repertoire which will also include improvisation. Participation in a public performance at the end of each semester is required. A \$50 user fee and a \$20 uniform fee will be charged.

Open to:	Grades 9-12 – Maximum enrollment: 27	Term:	1 sem
Pre-requisite:	Beginning Steel Drum Band and Teacher Approval	Credit:	0.5 unit (Fine Art Credit)

**ADVANCED STEEL DRUM BAND**

Code: 12H32D0Y

This course will act as a continuation of the Beginning and Intermediate Steel Drum Band classes. In addition to the techniques and styles taught in prior classes the students will be introduced to more advanced repertoire which will also include improvisation. Participation in a public performance at the end of each semester is required. A \$50 user fee and a \$20 uniform fee will be charged for each student.

Open to:	Grades 9-12 – Maximum enrollment-26	Term:	2 sem
Prerequisite:	Beginning Steel Drums Teacher Approval	Credit:	1.0 unit (Fine Art Credit)

**JAZZ LAB BAND**

Code: 12J31302

This course focuses on the style and technical performance of Jazz music. Emphasis is placed on jazz combo selections, improvisational techniques incorporated within this style, and jazz theory. Students are required to participate in all activities including after-school, evening and weekend rehearsals and performances. Purchase of materials (not to exceed \$50) is also required. Performance attire is all black: dress shirt, slacks, and sport jacket for men, and dress slacks/skirt, blouse and shoes for women. Students will be charged a \$25 Band Fee which will help with equipment purchases and music.

Open to:	Grades 8-12	Term:	2 sem
Prerequisite:	Teacher Approval	Credit:	1.0 unit (Fine Art Credit)

### JAZZ ENSEMBLE

Code: 1213130Y

This course focuses on the style and technical performances of Jazz music. Emphasis is placed on Big Band Jazz with basic improvisational techniques incorporated within this style. Students are required to participate in all activities including after-school, evening and weekend rehearsals, festivals, and performances. Purchase of textbooks (not to exceed \$50) is also required. Performance attire is dress shirt, slacks, and sport jacket for men, and dress slacks/skirt, blouse and shoes for women. . Auditions for Jazz Ensemble will take place in the spring of the previous school year. Jazz Ensemble has traditional big band instrumentation. Any students that audition and do not make the Jazz ensemble will be placed in the Jazz lab band. Students will be charged a \$25 Band Fee which will help with equipment purchases and music.

Open to: Grades 9-12  
Prerequisite: Teacher Approval

Term: 2 sem  
Credit: 1.0 unit  
(Fine Art Credit)

### MUSIC THEORY 1

Code: 04L13000

This course introduces the fundamental aspects of music theory. The goal of this course is to give students with a limited background in music theory the opportunity to study the basic elements of music, including notation, rhythm, scales, key signatures, intervals, and chords, as well as beginning level melodic and rhythmic dictation/ear-training and basic sight-singing skills.

Open to: Grades 9, 10  
Prerequisite: Previous Voice Experience

Term: 1 sem  
Credit: 0.5 unit  
(Fine Art Credit)

### AP MUSIC THEORY

Code: 12N3500Y

This course integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and some historical aspects of western music. Aural skills, sight-singing, and keyboard harmony will also be studied. The ultimate goal of this course is to develop a student's ability to recognize and understand the basic materials and processes of music that are heard or read in a score. The student's ability to read and write musical notation is fundamental to such a course. The class is open to all students, grades 10-12, who have experience in performing on any musical instrument and can successfully complete an elementary pre-test in theory. Students are required to complete a summer assignment and register for several ear training websites in order to assist with the aural skills portion of the class. The fee for these sites will not exceed \$30. AP exam is required.

Open to: Grades 10-12  
Prerequisite: Teacher Approval

Term: 2 sem  
Credit: 1.0 unit\*\*

## PHYSICAL EDUCATION

Physical Education is required for one semester in grades 7 and 8 and for two semesters in senior high. Students must purchase gym uniforms (shirt and shorts) for \$8 each.

### PHYSICAL EDUCATION 7

Code: 08M71000

This comprehensive course is designed to increase aerobic activity and physical fitness. Individual skill development in activities such as physical fitness and swimming are key components of the program.

Open to: Grade 7  
Prerequisite: None

Term: 1 sem

### PHYSICAL EDUCATION 8-12

Code: 08S31000

The physical education curriculum for high school emphasizes physical fitness and aerobic conditioning. Lifetime sport skills are an integral part of the program with a wide variety of individual and team sport activities, including: weight training, presidential and physical fitness, softball, flag football, soccer and other lifetime activities. All programs are co-educational.

Open to: Grades 8-12  
Prerequisite: None

Term: 1 sem  
Credit: .25 unit  
(Non-Academic Credit)

## SCIENCE

Students who enter at grade 7 must complete five years of science. Science 7AA, Science 8AA, Biology (grades 9 or 10) and Chemistry (grades 10 or 11) are required. An additional course must be selected from either the regular or AP electives.

### Electives

Physics, Zoology, Anatomy and Physiology AA, Environmental Science, Earth and Space Science Sequence: Geology/Meteorology and Astronomy

### Advanced Placement Electives

AP Chemistry, AP Physics B, AP Physics C, AP Environmental Science and AP Biology

### SCIENCE 7AA

Code: 13074000

Students in middle school science study interdisciplinary topics integrated into a core curriculum with emphasis on earth science. The topics include water and air, weather and astronomy. Emphasis is placed on science process skills such as data collection, organization and interpretation, prediction, hypothesizing, and designing experiments. Communication arts, reading and mathematics skills are stressed. Laboratory experiences are an integral part of the course.

Open to: Grade 7  
Prerequisite: None

Term: 2 sem

### SCIENCE 8AA

Code: 13084000

Students in middle school science study interdisciplinary topics integrated into a core curriculum with emphasis on chemistry and physics. The course emphasizes science process skills such as data collection, organization and interpretation, prediction and estimation, hypothesizing, and experiment design. Communication arts, reading and mathematics skills such as graphing and data analysis are stressed. This is a required course emphasizing the scientific method, atomic structure, chemical compounds, the Periodic Table, chemical reactions, motion, force, machines, magnetism, electricity, sound, heat, and optics. Instruction in laboratory procedures and the safe use of equipment acquaint the student with the way a scientist works. This course lays a foundation for future biology, chemistry, and physics classes.

Open to: Grade 8  
Prerequisite: Science 7; Algebra 1 concurrent

Term: 2 sem

### SCIENCE 8 (HONORS)

Code: 13084H00

The Eighth Grade Honors Program integrates the three disciplines: English, American History, and Physical Science. Eight-Honors Science is a hands-on course which emphasizes National Science Foundation standards. Students will collect and analyze scientific data and will determine how to prove or disprove their own hypotheses. They will also work with other members of the 8-Honors team to develop research communication skills. This course emphasizes critical thinking skills and develops a base of knowledge as background for high school science courses. See Science descriptions for English 8-Honors and American History 8-Honors for a more complete understanding of the 8-Honors program. A science fair project is required.

Open to: Grade 8  
Prerequisite: Qualifying grades and Acceptance

Term: 2 sem

### BIOLOGY

Code: 1359300Y

This course introduces students to the study of the life sciences. The ultimate goal is to produce students who are more scientifically literate and environmentally aware; therefore, the curriculum addresses attitudes, processes, knowledge science, technology, society, the environment, and careers. Topics covered include the nature of science, the structure and function of the cell, chemistry of living organisms, genetics, nucleic acid formation and function, taxonomy, a study of the characteristics of the six kingdoms of organisms, origin and diversity of life, and ecological relationships. Various laboratory investigations and other activities strengthen the mastery of topics covered. This course provides a foundation for advanced classes in zoology, physiology, AP biology, and environmental science.

Open to: Grade 9, 10  
Prerequisite: Science 8

Term: 2 sem  
Credit: 1.0 unit



### BIOLOGY AA

Code: 1359400Y

Biology AA is an accelerated treatment of the same topics as regular biology. This course emphasizes molecular biology with laboratory experiences included in the instructional foundation. Students completing this course will be prepared for Advanced Placement study in the life sciences.

Open to: Grade 9 Term: 2 sem  
Prerequisite: Qualifying grades and Teacher Approval and Acceptance Credit: 1.0 unit\*\*

### BIOLOGY 9-HONORS

Code: 13594H0Y

The ninth grade Biology Honors course covers the same topics as regular biology, but it is taught in a 3-bell block integrating honors English and Modern History. Taught at an accelerated pace, this course emphasizes molecular biology with laboratory experiences included in the instructional foundation. Students completing this course will be prepared for Advanced Placement study in science.

Open to: Grade 9 Term: 2 sem  
Prerequisite: Qualifying grades and Acceptance Credit: 1.0 unit \*\*

### CHEMISTRY

Code: 1320300Y

Chemistry is a laboratory-based course designed to prepare students for advanced study in science. Topics include measurement, chemical reactions, stoichiometry, atomic theory, periodic law and properties, chemical bonding, organic chemistry, kinetic-molecular theory, equilibrium, acids and bases, and oxidation-reduction reactions. Successful completion of this course may qualify students for Advanced Placement Chemistry and other advanced courses.

Open to: Grades 10 (with strong performance in Biology and Math) 11, 12 Term: 2 sem  
Prerequisite: Biology completed Credit: 1.0 unit  
Algebra 2 completed or concurrent

### ENVIRONMENTAL SCIENCE (Man and the Environment)

Code: 1370300A

Environmental Science 1 is a one-semester course that emphasizes human interactions with the global environment. Topics will include environmental problem solving, ecosystems, population issues, energy and resources.

Open to: Grade 10 Term: 1 sem  
Prerequisite: Biology Credit: 0.5 unit

### ENVIRONMENTAL SCIENCE (Botany)

Code: 1370300B

Environmental Science 2 is a one-semester course with an emphasis on plant interaction in the ecosystem and the global environment. Topics include plant structure, anatomy of root, stem and leaf, flower, fruits and seeds, classification, horticulture, and economic/medical botany.

Open to: Grade 10 Term: 1 sem  
Prerequisite: Biology Credit: 0.5 unit

### ZOOLOGY

Code: 13513Y0Y

Zoology is an upper level, biological science course that examines the principles underlying the evolutionary, ecological, and economic development of the ten major animal phyla. It provides an in-depth analysis of the similarities and differences in structure and function of invertebrate and vertebrate organisms from these major groups. Metabolic processes, identifying characteristics, genetics and animal behavior are explored as unifying biological concepts through laboratory experiences and the use of the microscope. Students continue to develop skills using the scientific process such as measurement, data interpretation, analysis, and classification.

Open to: Grades 11, 12 Term: 2 sem  
Prerequisite: Chemistry Credit: 1.0 unit

### AP BIOLOGY

Code: 13525WOY

The Advanced Placement Biology course is equivalent to a first year college biology course. Topics studied include the methods and tools of biologists of the past and present, the relationship of science to social consequences, and concepts of molecular and cellular biology, organism and population biology, genetics, and evolution. A combination of lectures, demonstrations, and laboratory activities provide opportunities for students to collect and interpret data and design related experiments. AP exam is required. AP Biology meets two periods every other day (the double bell frequently meshes with AP Physics or AP Chemistry.) A summer assignment which includes textbook and journal readings on ecology and animal behavior is a course requirement.

Open to: Grades 11, 12 Term: 2 sem  
Prerequisite: Biology AA with "B" average or better or Biology with "A" average, Chemistry and Teacher Approval. Credit: 1.5 unit\*\*

ANATOMY AND PHYSIOLOGY AA

Anatomy and Physiology is an advanced biological science course that emphasizes an in-depth examination of the systems of the body with special attention given to medically related problems. It introduces basic anatomy and stresses the unique engineering design and proficiency of functions of the human body. Students who are oriented towards medical/health-allied careers and those who possess a keen interest in the structure and functioning of the human body will find the course of particular value. Learning activities are varied with an emphasis on safe laboratory experience and dissection.

Open to: Grade 11, 12

Prerequisite: Chemistry

Term: 2 sem

Credit: 1.0 unit\*\*

CHEMISTRY AA

Code: 1320400Y

Chemistry AA is designed for students who have strong interest in and intend to proceed to Advanced Placement study in science. The Chemistry AA course covers the topics in the regular chemistry course in more detail and at a faster pace. Laboratory work is emphasized.

Open to: Grades 10, 11

Prerequisite: Completion of Biology with A's and B's in AA math and science classes or Semester of A's in non-academic math and science. Algebra 2 Concurrent. Teacher Approval

Term: 2 sem

Credit: 1.0 unit\*\*

AP CHEMISTRY

Code: 1321500Y

Advanced Placement Chemistry is equivalent to a first year college chemistry program. Topics emphasized include atomic theory, the periodic law and properties, chemical bonding, molecular geometry, kinetic-molecular theory, solutions, acids and bases, chemical kinetics and equilibria, solubility, thermodynamics, oxidation-reduction reactions, and organic chemistry (nomenclature, isomerism, and descriptive chemistry). Chemistry AP meets for two bells every other day in order to accommodate the rigorous lab requirements. (The double bell frequently meshes with AP Physics or AP Biology). A summer assignment involves review problems from first year chemistry.

Open to: Grade 11, 12

Prerequisite: Strong grades in Chemistry or Chemistry AA, Algebra 2 completed and Teacher Approval

Term: 2 sem

Credit: 1.50 unit\*\*

PHYSICS AA

Code: 1331400Y

This course is designed to build a conceptual understanding of the physical laws and natural processes needed to appreciate how the science of physics is involved in everything a person experiences every day. This course is recommended for those interested in a well-rounded, liberal arts background in preparation for college. Topics studied include: motion, forces, energy properties of matter, sound, light, electricity and magnetism, and atomic and nuclear physics with applications to environmental and social issues. Laboratory exercises reinforce the concepts developed in class.

Open to: Grades 11, 12

Prerequisite: Chemistry with a min. grade of a B for both regular term semesters AND Algebra 2 with a min. grade of B for both regular term semesters.

Term: 2 sem

Credit: 1.0 unit\*\*

AP PHYSICS 1

Code: 1331500Y

The Physics B course is equivalent to a yearlong college-level survey course sequence with a mathematical basis in algebra and trigonometry. The course normally satisfies college physical science requirements, and it is intended for students who will be entering the areas of life science, pre-medicine, and some applied sciences, as well as other fields not directly related to science. Physics AP-B may also be taken as a one-year introduction in preparation for Physics AP-C. Topics covered in this course include: mechanics, electricity and magnetism, kinetic theory and thermodynamics, waves and optics, atomic and nuclear physics, and special relativity. Laboratory experiences emphasize the concepts developed in class. Students will be scheduled for a double bell every other day (the double bell frequently meshes with AP Chemistry or AP Biology).

Open to: Grades 11, 12

Prerequisite: Algebra 2

Co-requisite: Pre-Calculus and Teacher Approval

Term: 1 sem

Credit: .75 unit\*\*

## AP PHYSICS 2

Code: 1339500Y

The Physics B course is equivalent to a yearlong college-level survey course sequence with a mathematical basis in algebra and trigonometry. The course normally satisfies college physical science requirements, and it is intended for students who will be entering the areas of life science, pre-medicine, and some applied sciences, as well as other fields not directly related to science. Physics AP-B may also be taken as a one-year introduction in preparation for Physics AP-C. Topics covered in this course include: mechanics, electricity and magnetism, kinetic theory and thermodynamics, waves and optics, atomic and nuclear physics, and special relativity. Laboratory experiences emphasize the concepts developed in class. Students will be scheduled for a double bell every other day (the double bell frequently meshes with AP Chemistry or AP Biology).

Open to: Grades 11, 12

Term: 1 sem

Prerequisite: Algebra 2

Credit: .75 unit\*\*

Co-requisite: Pre-Calculus and  
Teacher Approval

## AP PHYSICS C MECHANICS/ELECTRICITY AND MAGNETISM

Mech.Code: 13335000

E & M Code: 13345000

This course in Advanced Placement Physics is equivalent to a first-year college level course in physics with calculus. This course is strongly recommended for students who are considering physics or engineering as a college major. The course includes an in-depth development of the mathematical aspects of physics in two areas: mechanics and electricity/magnetism. A combination of lectures, demonstrations, problem-solving exercises, and laboratory activities provides a wide range of experiences for the student. AP exam is required. Students will be scheduled for a double bell every other day. The double bell usually meshes with AP Chemistry or AP Biology. Two AP exams are a requirement of the course. (Note: Please register for both courses; electrical and magnetism and E Physics Mechanics. Both AP exams are required.)

Open to: Grade 12

Term: 2 sem

Prerequisite: Calculus concurrent or completed and Teacher Approval.

Credit: 1.5 unit \*\*

## AP ENVIRONMENTAL SCIENCE

Code: 1370500Y

The AP Environmental Science course is the equivalent of a one-semester, introductory college course in environmental science. The course provides students with scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems and to examine alternative solutions. The course stresses not only scientific principles and analysis, but also emphasizes environmental issues from a social and political perspective. AP exam is required. Summer assignments include reading *Silent Spring* by Rachel Carson and a paper, environmental programs/movie and evaluation summaries.

Open to: Grade 11, 12

Term: 2 sem

Prerequisite: Biology, Chemistry, and Teacher Approval

Credit: 1.0 unit\*\*

## ENGINEERING FOUNDATIONS/ ENGINEERING MODELS 1

Foundations Code: 17E310D0

Models Code: 17C310D0

Engineering Foundations & Models are integrated in one period throughout the year (students must enroll in both.) Engineering Foundations & Models serve as an introduction to all fields of engineering. This course is weighted as an AP Course, but there is no AP Exam, and two 2-hour semester college credits may be earned through Ohio's College Credit Plus Program. It is recommended that students who plan to major in engineering take physics and calculus prior to or concurrently with this program. Students may receive either math or science credit for this course. There is a \$20 lab fee.

**Engineering Foundations** includes hands on labs that allow students to explore mechanical, electrical, structural, industrial, and other fields of engineering with an emphasis on the Engineering Design Process, while working in long term teams. Students will design, model, build, analyze, and evaluate a 25 ft. long roller coaster as their second semester project. Students will also receive training in engineering graphics (3D visualization, sketching, and CAD), engineering ethics and in professional skills such as communication, teamwork, problem-solving, presentation, project documentation, and synthesis.

**Engineering Models 1** is designed to develop good problem solving techniques and to illustrate how engineers use mathematics to solve a variety of practical and often complex problems. Basic MATLAB programming will be used as a tool for exploring engineering applications, to investigate solutions, to problems too complex for hand solution, and to develop an appreciation of the power and limitations of digital computation (topics include arrays and operations, simultaneous linear equations, data analysis, functions).

Open to: Grade 12

Term: 2 sem

Prerequisite: Pre-Calculus, Chemistry, and Teacher Approval

Credit: 1.0 unit\*\*

\*\* indicates a weighted course

**EARTH AND SPACE SCIENCE- GEOLOGY**

Code: 13133100

This course includes a study of the structure of the earth, the forces acting within and upon it, the materials that comprise it, and the history of its life forms. Basic chemistry is used in the study of minerals, and basic biology is used in the study of paleontology.

Open to: Grades 11, 12  
Prerequisite: Chemistry

Term: 1 sem  
Credit: 0.5 unit

**EARTH AND SPACE SCIENCE-METEROLOGY AND ASTRONOMY**

Code: 13133200

This course emphasizes the study of weather and climate, and the forces affecting them. It will also include a mathematical and descriptive look at the solar system and beyond.

Open to: Grades 11, 12  
Prerequisite: Chemistry

Term: 1 sem  
Credit: 0.5 unit

**SOCIAL STUDIES**

Walnut Hills requires five years of social studies courses in grades 7 through 12. Social Studies 7 serves as an introduction to all of the social sciences. Students fulfill the commitment to American studies through American History 8 and United States History. Modern History provides students with a global approach to the study and understanding of the modern world. Economics and Government are required courses for graduation.

**Required**

Social Studies 7AA, Social Studies 8AA, Modern World History, American History 10 or AP United States History (with approval), Economics and Government 11, 12

**Electives**

Anthropology (1 sem.), Ethnic Studies, History of Philosophy (1 sem.), Sociology (1 sem.), Themes in Irish History

**Advanced Placement Electives**

AP Art History, AP Comparative Government and Politics, AP Economics, AP European History, AP Human Geography, AP Psychology, AP World History, AP US Government

**SOCIAL STUDIES 7 AA (Ancient World History)**

Code: 15074000

Students in grade 7 concentrate on the development of skills and understandings necessary for student success in subsequent social studies curricula at Walnut Hills. Special units on the social studies disciplines will develop the skills to write clear, concise essays in order to consider, interpret, and apply evidence in support of stated hypotheses. Students will examine, interpret, and draw conclusions from social studies source materials such as primary and secondary source readings, maps, graphs, charts, tables, and timelines. The grade 7 curriculum concentrates on important regional historic civilizations of Asia, Africa, and Europe during the period from 5000 BCE to 1500 CE. Emphasis is placed on the links between the social studies disciplines of history, government, geography, economics, and society and culture of world regions, as well as the links between past and present, and the interdependence of world regions.

Open to: Grade 7  
Prerequisite: None

Term: 2 sem

**SOCIAL STUDIES 8AA (American History)**

Code: 15084000

In grade 8 students continue their systematic multicultural study of American History by connecting the past to the present with the issues and decisions that shaped historic and current events. From the pre-Columbian civilizations to Reconstruction (1400 – 1877), students use geographic and economic concepts to interpret historic events, which in turn affect the present. Students learn to apply concepts from the Constitution and government that relate to the Ohio Graduation Test on Citizenship.

Open to: Grade 8  
Prerequisite: None

Term: 2 sem

AMERICAN HISTORY 8 – HONORS

Code: 15084H00

American History 8-Honors is a part of a program embracing the three disciplines of social studies, English, and general science. The theme of the course is American culture: a detailed chronological survey of U.S. History from the period of discovery to Reconstruction (to 1877), including a study of the U.S. Constitution and the federal system. Strong emphasis is placed on the utilization of primary sources and the writing of essays. Students work in cooperative learning groups for in-class projects, and for the colonial fair, an interactive festival that is the culmination of our second quarter studies of the Pre-Revolutionary period. The block of time allocated to the Honors Program allows a great flexibility in scheduling field trips and speakers from outside the school. See descriptions for English 8-Honors and Science 8-Honors for a complete understanding of the Honors-8 program.

Open to: Grade 8 Term: 2 sem  
Prerequisite: Qualifying grades and acceptance

MODERN WORLD HISTORY

Code: 1539300Y

Modern History surveys world events from the Renaissance to the present. Though the major focus is on Western civilization, significant attention is given to African and Asian history in order to address a diverse and global history. Political and cultural events associated with the Renaissance, the rise of nation-states, war and diplomacy, changing economic systems, revolutions, and Twentieth Century issues will be explored. Historical fiction, biographies, films, and other audio-visual materials are part of the classroom experience. A variety of approaches – chronological, thematic, historiographical, and biographical – are possible. Modern World History is an important complement to elective courses in social studies. Modern World History is particularly useful in preparing for the challenge of AP courses and is a prerequisite for Advanced Placement United States History.

Open to: Grade 9 Term: 2 sem  
Prerequisite: None Credit: 1.0 unit

MODERN WORLD HISTORY AA

Code: 1539400Y

Modern World History AA is a fast moving course designed to prepare ninth grade students to enter AP United States History and other advanced courses beginning in the 10<sup>th</sup> grade year. Students will be recommended for the advanced coursework based on their performance in 8<sup>th</sup> Grade United States History and is intended to challenge students that demonstrate mastery and high levels of academic success. The course surveys world events from the Renaissance to the present. Though the major focus is on Western civilization, significant attention is given to African and Asian history in order to address a diverse and global history. Political and cultural events associated with the Renaissance, the rise of nation-states, war and diplomacy, changing economic systems, revolutions, and Twentieth Century issues will be explored at an accelerated pace.

Open to: Grade 9 Term: 2 sem  
Prerequisite: Qualified grades and Acceptance Credit: 1.0 unit\*\*

MODERN WORLD HISTORY - HONORS

Code: 15394H0Y

Modern History is part of an integrated, interdisciplinary program including English, Biology, and Social Studies. The course focuses on an in-depth study of the political, economic, and social trends not only in historical events but also in literature as well. The scope of the course spans the Renaissance to the present, although connections to the classical world, which laid the foundation for the modern era, will be explored. Though the major focus is on Western civilization, significant attention is given to African and Asian history in order to address a diverse and global history. Modern World History is an important complement to elective courses in social studies. Modern World History is particularly useful in preparing for the challenge of AP courses and is a prerequisite for Advanced Placement United States History.

Open to: Grade 9 Term: 2 sem  
Prerequisite: Qualifying grades and Acceptance Credit: 1.0 unit\*\*

AMERICAN HISTORY

Code: 1551300Y

The American History program is a survey of the nations’ economic, political, cultural, and diplomatic development from 1877 to the present. The course recognizes the contributions made by the various ethnic groups in America. It presents new as well as traditional viewpoints and interpretations of America’s past. Students learn to apply lessons of history to their own experiences. It stresses the importance of being informed on the many issues of today and assessing the conflicting views expressed by scholars and members of the mass media. In the first marking period, which is devoted to the study of American government, each student is required to participate in the political campaign of his/her choice to gain a personal understanding of participatory citizenship.

Open to: Grade 10 Term: 2 sem  
Prerequisite: American History 8 Credit: 1.0 unit

\*\* indicates a weighted course

AP UNITED STATES HISTORY

Code: 1551500Y

Advanced Placement United States History is designed to provide selected sophomores with a college-level introductory course in the history of our nation. Reading assignments will include the text and a number of readings widely used in colleges and universities. Students will learn to assess historical materials – their relevance to a given interpretive problem, reliability, and importance – and to weigh the evidence and interpretations presented in historical scholarship. The U.S. History AP course will thus develop the skills necessary to arrive at conclusions on the basis of informed judgment and to present reasons and evidence clearly and persuasively in a concise writing style. A written review, research or essay assignment will be required in the summer preceding this course. Additionally, each student is required to participate in a political campaign of his/her choice to gain a personal understanding of participatory citizenship. The AP exam is a requirement of the course.

Open to: Grade 10 Term: 2 sem  
Prerequisite: Modern World History and Teacher Approval Credit: 1.0 unit\*\*

AMERICAN GOVERNMENT

Code: 15036100

U.S. Government is a survey of the key concepts on American government with a focus on federalism and the concept of developing students toward the goal of citizenship in the 21<sup>st</sup> century. The course addresses the branches of government, elections, citizenship, Ohio government, as well as key documents and historical development.

Open to: Grades 11, 12 Term: 1 sem  
Prerequisite: Teacher Approval Credit: 0.5 unit

ECONOMICS

Code: 15613000

Economics is a semester course designed to explain how the economy as a whole functions and how it is measured, along with various processes needed to make good economic decisions. In addition, students study the relationships of supply and demand, how firms organize and compete through pricing of goods and services, money and banking, business cycles, the role of government, how international trade affects the economy and how different economic systems can be compared with the market economy. The survey includes an analysis of entrepreneurial ideas and personal finance.

Open to: Grades 11, 12 Term: 1 sem  
Prerequisite: None Credit: 0.5 unit

AP MACROECONOMICS/AP MICROECONOMICS

Code: 15715000 (macro)

Code: 15725000 (micro)

Advanced Placement Economics is designed to provide a college level course in economic reasoning and understanding. Theoretical, conceptual and graphical analysis is important in this course. Microeconomics focuses on individuals and firms and the decisions they must face with unlimited wants and scarce resources. Macroeconomics focuses on fiscal (government) policy and monetary (Federal Reserve) policy and their effects on the economy as a whole. There is no summer assignment for this course. Two AP exams are a requirement of the course. (Note: These are two separate courses, both exams are required.)

Open to: Grades 11, 12 Term: 2 sem  
Prerequisite: Teacher Approval Credit: 1.0 unit\*\*

THEMES IN IRISH HISTORY

Code: 15213000

This course examines the forces and movements in the development of the Irish people and culture. We will examine the political, historical, and social aspects of Ireland as well as its relationship with England and the rest of Britain. We will trace the ideologies and tactics of Irish republicanism and unionism, the struggle for political separation from Britain, the Irish literary renaissance, the Irish Diaspora and its effects on Ireland and abroad, the influence of religion on Irish identities, the origins of the “troubles” in Northern Ireland, and the shape of Irish culture and society into the twenty-first century.

Open to: Grades 11, 12 Term: 1 sem  
Prerequisite: Modern World History, American History, And Teacher Approval Credit: 0.5 unit

ANTHROPOLOGY

Code: 15933A00

The ultimate goal of the anthropology course is to help the students understand first themselves, then their society and other cultures better, and to promote understanding and appreciation of all peoples. In the first quarter, students will study physical anthropology, focusing on human evolution through millions of years and on the variations which exist among humans today. The resistance to these ideas and the implication of evolution and racial variations will be discussed. The second quarter of cultural anthropology focuses on certain aspects of societies: types of economic systems, marriage and family, relationships, religion, and the effects of change on societies. Throughout the course, an emphasis is placed on examining aspects and institutions of our own society and gaining new perspectives about ourselves. Films, outside reading and group projects are utilized.

Open to: Grades 10, 11, 12 Term: 1 sem  
Prerequisite: Modern World History Credit: 0.5 unit

\*\* indicates a weighted course

### ETHNIC STUDIES

Code: 15933E0Y

Ethnic Studies is the study of minority groups in the United States. The course concentrates on the specific problems of minority assimilation into the mainstream of American society while retaining a sense of one's cultural identity. It focuses on the contributions of Asian Americans, Black Americans, Hispanic Americans, and Native Americans. Lectures, discussions, outside readings, guest speakers, and audiovisual materials are an integral part of the course.

Open to: Grade 12

Term: 2 sem

Prerequisite: American History & Government

Credit: 1.0 unit

### AP ART HISTORY

Code: 1513500Y

Art History AP is an introduction to interpreting the visual arts. The chief goal is to assist the student in understanding and appreciating key examples of architecture, sculpture, and painting as historical documents. Prior Modern World History study is a prerequisite for this course. This history course does not assume artistic talent on the student's part, and anyone with a curiosity about the subject, an interest in history, and a willingness to do academic work is encouraged to enroll. Art History is an excellent complement to required and elective courses in all fields. The specific objectives of the course are to acquaint the student with the historical settings within which great works have been produced and develop viewing and writing skills necessary for recognizing and critically evaluating and comparing major works. The emphasis is on the global tradition of art, focusing equally on the Western and non-Western. The course covers prehistoric art through Greece and Rome, the Middle Ages, and the Renaissance, to Impressionism and Contemporary Art. Extensive use is made of visual materials, local museum collections, and local architecture. A major focus is on helping students to use and to improve their essay writing skills. Attention is given to developing writing approaches that effectively synthesize knowledge about history and art into concise and articulate essays. The AP exam is required.

Open to: Grades 11, 12

Term: 2 sem

Prerequisite: Teacher Approval

Credit: 1.0 unit\*\*

### AP COMPARATIVE GOVERNMENT AND POLITICS

Code: 15925Y0Y

Comparative Politics AP will analyze a wide range of political systems across a variety of countries, including, (Russia, People's Republic of China); parliamentary democracy in Great Britain; and developing third world countries (Iran, Mexico, Nigeria). Points of comparison emphasized are; 1) the citizen and the state; 2) sources of public authority and political power; 3) types of regimes and scope of government activity; 4) society and politics; 5) political parties, interest groups and leadership. A summer assignment will be required. Students interested in the AP level of Comparative Politics should attend an orientation meeting and must complete the course application. The AP exam is required.

Open to: Grades 11 and 12

Term: 2 sem

Prerequisite: Teacher Approval

Credit: 1.0 unit\*\*

### AP UNITED STATES GOVERNMENT

Code: 15625Y0Y

This course in United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students should become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes.

Open to: Grades 11 and 12

Term: 2 sem

Prerequisite: Satisfactory Completion of U.S. History 10

Credit: 1.0 unit

### AP EUROPEAN HISTORY

Code: 1582500Y

Advanced Placement European History is a college-level course to introduce the student to the complexities of Western civilization. The major emphases are on the study of European History and civilization from the Italian Renaissance into the present era and on the relationship of European development to the other cultures of the world. The course transcends Europe's geographical boundaries in showing how its history contributes to the making of the modern world; thus, upon completion of the course, the student should be able to view the unfolding drama of current history in its proper historical context. Other objectives of the course are to develop the students' ability to view European history with an open intelligence; to refine their talents to marshal evidence and to present conclusions in a coherent, cohesive manner; to read with discrimination; and to write with precision and clarity. Historiography and primary source material will be used to refine the students' understanding of the historical process. The summer assignment will be the reading of one trade publication and the composition of two short papers. The AP exam is a requirement of the course.

Open to: Grades 11, 12

Term: 2 sem

Prerequisite: Teacher Approval

Credit: 1.0 unit\*\*

AP EUROPEAN HISTORY SERVICE LEARNING

Code: 158E500Y

AP European History Service Learning is a college level course to introduce the student to the complexities of Western civilization. The major emphases are on the study of European History and civilization from the Italian Renaissance into the present era and on the relationship of European development to the other cultures of the world. This course requires a service learning component in which the student will develop and implement an action plan outside of the regular school hours. The course will have a College Board “Service Learning” designation on student transcripts.

Open to: Grades 11, 12 Term: 2 sem  
Prerequisite: Teacher Approval Credit: 1.0 unit\*\*

AP HUMAN GEOGRAPHY

Code: 1543500Y

Human Geography AP is an introduction to geographic perspectives on human society. Human interactions and their settings are studied through spatial, human environment, and regional traditions. Implications of such study at local, national, and international levels are drawn. The course strives to analyze such concepts as population, land usage, urban development, cultural distribution, and human organization through spatial relations. The AP exam is a requirement of the course.

Open to: Grades 10, 11, 12 Term: 2 sem  
Prerequisite: Teacher Approval Credit: 1.0 unit\*\*

AP HUMAN GEOGRAPHY SERVICE LEARNING

Code: 154H500Y

AP Human Geography with Service Learning is an introduction to geographic perspectives on human society. Human interactions and their settings are studied through spatial, human environment, and regional traditions. This course requires a service learning component in which the student will develop and implement an action plan outside of the regular school hours. The course will have a College Board “Service Learning” designation on student transcripts

Open to: Grades 10, 11, 12 Term: 2 sem  
Prerequisite: Teacher Approval Credit: 1.0 unit\*\*

THE HISTORY OF PHILOSOPHY

Code: 15933S00

Philosophy is the study of man’s ideas from the ancient times to the most current thinkers. A wide variety of philosophical ideas are examined such as truth, justice, beauty, happiness, and ethics. The purpose of this course is to provide students with an understanding of how man’s ideas have emerged, changed, and developed over the course of history. Philosophy meets a basic need of college-preparatory students by supplementing their work in the required social studies courses with the opportunity to study the principal Western philosophers. The first quarter emphasizes the ancient philosophers, especially Socrates, Plato, and Aristotle. During the second quarter, students delve into the writings of medieval and modern philosophers. Through discussion students participate in the analysis, interpretation, and evaluation of ideas studied. A goal of this two-quarter course is to foster independent thinking through the students’ analysis of their own beliefs and thoughts.

Open to: Grades 11, 12 Term: 1 sem  
Prerequisite: None Credit: 0.5 unit

AP PSYCHOLOGY

Code: 1593500Y

Advanced Placement Psychology is a college-level course which introduces students to the discipline of psychology by emphasizing the history of psychology as a science, the different theoretical approaches that underlie explanations of behavior, and the contemporary research methods used by psychologists. Students will learn about the many different fields within psychology and about the importance of ethics in both scientific research and the practice of psychology. Students will come to understand the relationship between biology and behavior. A wide range of psychological topics will be examined such as: sensation and perception, states of consciousness, learning, cognition, motivation, emotion, personality, testing and individual differences, and abnormal psychology. The final section of the course will consider the impact of social factors on behavior. Throughout the course students will be exposed to classic psychological studies. The AP exam is a requirement of the course.

Open to: Grade 12 Term: 2 sem  
Prerequisite: Teacher Approval Credit: 1.0 unit\*\*

AP WORLD HISTORY

Code: 1531500Y

This college-level course focuses on the development of historical global processes through the use of analytical skills. The student will build on an understanding of history prior to 1000 C.E. and then starting with 1000 C.E., students will examine contacts between the various world civilizations and societies and will investigate the changes in the world frameworks and their causes. In addition, students will use their analytical skills to examine both primary and secondary readings. Finally, students will study global geography and relate it to the study of World History. The AP exam is a requirement of the course.

Open to: Grades 11, 12 Term: 2 sem  
Prerequisite: Teacher Approval Credit: 1.0 unit\*\*

\*\* indicates a weighted course



AMERICAN PROBLEMS: SOCIOLOGY

Code: 15733S00

Course focuses on basic concepts, research, and theories involved in increasing the understanding of human behavior and human societies. The interrelations among human societies, individuals, organizations, and groups are analyzed. Topics of analysis include culture, social interaction, social institutions, social stratification, community, and various social change strategies. Numerous contemporary social problems and issues such as racial and ethnic relations, sexism, and class bias are discussed.

Open to: Grades 11, 12  
Prerequisite: U.S. History & Government

Term: 1 sem  
Credit: 0.5 unit

ANCIENT AND MEDIEVAL HISTORY

Code: 1529300Y

This course is designed to develop the students' understanding of and appreciation for their heritage. Ancient and Medieval History examines the study of man from the emergence of civilization in ancient Sumer to the rise of the modern world. While the course emphasizes cultural developments in both Western and non-Western settings, the emphasis is placed on Western civilization. Man's capacity to adapt, his inventive genius and his achievements in the arts contribute interesting topics for consideration. Thematic discussions will be based upon readings of primary sources in translation. Several units for discussion include historiography, the ancient Near East with a focus on the development of monotheism as parallel to the religious reforms of Egypt's Ikhnaton, the development of government in the Greek city-states (tyranny to democracy), the Greek experience and the impact on society (Athens vs. Sparta), the evolution of Rome's society and governmental forms, the High Middle Ages and an overview of Renaissance-Reformation times leading up to the formation of the modern world.

Open to: Grades 10, 11, 12  
Pre-requisite: Modern World History and US History

Term: 2 sem  
Credit: 1.0 unit

AP CAPSTONE: SEMINAR

Code: 0543500Y

In this interactive course, students develop and strengthen analytic and inquiry skills, exploring relevant issues from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions. Students will question, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. During the course, students will participate in formal policy debate, complete a team project, an individual paper and presentation, and take a written final AP exam. The AP Seminar Exam score is based on all three components and is reported on the standard 1-5 AP scoring scale.

Open to: Grade 10, 11 & 12  
Prerequisite: Modern World History and Interview

Term: 2 sem  
Credit: 1.0 unit\*\*

AP CAPSTONE: RESEARCH

Code: 0544500Y

The (optional) second course in the AP Capstone experience allows students to design, plan, and conduct a year-long research-based investigation on a topic of individual interest. Through this inquiry and investigation, students demonstrate the ability to apply scholarly understanding to real-world problems and issues. Students further the skills developed in AP Seminar by understanding research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information to build, present, and defend an argument. At the end of the research investigation, students submit an academic thesis paper, present their thesis, and orally defend their work. The AP Research Exam score is based on the paper, presentation, and defense, and is reported on the standard 1-5 AP scoring scale.

Open to: Grade 11 & 12  
Prerequisite: AP Seminar Course & Qualifying Grades

Term: 2 sem  
Credit: 1.0 unit\*\*

SURVEY OF AFRICAN HISTORY

Code: 15503300

The goal of the course is to increase knowledge and interest, while dispelling misconceptions, about the history of Africa. The course will emphasize the continent's geography, diversity, and contemporary issues/current events, as well as the history and implications behind them. The students will be expected to read and discuss a variety of materials, complete a research project, and various written assessments.

Open to: Grades 11, 12  
Prerequisite: Teacher Approval

Term: 1 sem  
Credit: .5 unit

## THEATRE

The Walnut Hills Theatre department offers courses ranging from the basic to advanced levels in Drama. Basic Drama is the introductory performance course while Stagecraft I is the introductory course in technical theatre. Advanced courses include Advanced Theatre I and II, Styles of Acting and Directing and Stagecraft II. One fine art credit is required in grades 9-12.

### CREATIVE DRAMATICS

Code: 05C33000

Creative Dramatics is an introductory course designed to acquaint students with the basics of acting and theater enjoyment. In addition to theater games and improvisations, students generate scripts for scenes using the techniques of Viola Spolin and Paul Sills. The semester ends with the simple production of a student generated one act play.

Open to: Grades 7 & 8

Term: 1 sem

Prerequisite: None

### BASIC DRAMA

Code: 05D31S00

Basic Drama is an introductory course designed to acquaint the students with the fundamentals of acting and theatrical performance. The course explores movement and voice for the actor, basic acting techniques, as well as theatre history and stage production. The basic principles of directing and dramatic criticism are explored through the study of a major dramatic work. Basic Drama pulls together these various techniques in the final presentation of a major scene or one-act play.

Open to: Grades 9, 10, 11, 12

Term: 1 sem

Prerequisite: None

Credit: 0.50 unit

(Fine Arts Credit)

### ADVANCED THEATRE

Code: 05T3100Y

Students extend the knowledge gained in the basic drama course. Students also develop knowledge of theatre and acting history, gain acting and stage combat training, analyze and perform classic theatrical works, and evaluate the relationship between the actor and his/her environment. The course culminates in student-directed productions where all elements of play production are synthesized.

Open to: Grades 10, 11, 12

Term: 2 sem

Prerequisite: Teacher Approval

Credit: 1.0 unit

(Fine Arts Credit)

### ADVANCED THEATRE II

Code: 05T3120Y

The purpose of Advanced Theatre II is to give students the opportunity to continue working in-depth on the performing and producing of modern and classic theatre pieces. Students will do intensive work on modern and classical acting styles, movement, vocal production, and Shakespearean language. Students will be expected to direct and/or perform major scenes or even full length plays.

Open to: Grades 11, 12

Term: 2 sem

Prerequisite: Adv. Theatre

Credit: 1.0 unit

(Fine Art Credit)

### STYLES OF ACTING AND DIRECTING

Code: 05A31000

Students will learn how to read and understand a script and translate the script into a production. The development of acting styles from primitive to modern man is studied. Students also study the styles used for different period plays and types of theatre. Course goals include giving the student experience in acting and directing in styles demanded by certain period plays in addition to acting and directing in proscenium, thrust, and round staging techniques. The understandings gained from these experiences are then applied to scene work.

Open to: Grades 10, 11, 12

Term: 1 sem

Prerequisite: Basic Drama or Teacher Approval

Credit: .5 unit

(Fine Art Credit)

### STAGECRAFT I

Code: 05D3100Y

The purpose of Stagecraft is to familiarize those students interested in theatre with some of the aspects of the “backstage” operation of a production. Students will learn how to operate, manage and facilitate the use of a performing arts facility. The first semester is devoted to the knowledge and skills useful to anyone working on the technical aspect of a production. Students will put their newly learned skills to use in the producing and construction of the annual fall musical. The second semester will be devoted to practicum. Using the skills learned during the first semester, students will be given the more advanced duties required of a stage manager or the head of a lighting, sound, carpentry, or scene design and painting crew. During the second semester, the construction work load will increase to meet the demands of producing and constructing four main stage theatrical presentations as well as facilitating other school day assemblies. An interest in one or more of the following will aid students in attaining success in this course: mechanics or machinery, carpentry, electricity and/or electronics, art, and the management of a production. The course will require periodic after-school and evening stage crew hours working on the school dramatic productions.

Open to: Grades 10, 11, 12  
Prerequisite: Teacher Approval

Term: 2 sem  
Credit: 1.0 unit  
(Fine Art Credit)

### STAGECRAFT II

Code: 05D3120Y

The purpose of Stagecraft II allows students already familiar with the “back stage” operations of the theatre a chance to design, plan implement, coordinate and organize all aspects of the production. Students will participate in set, light, sound and crew head responsibilities. Although the course will require periodic after school and evening hours working on the school musical and dramatic productions, these hours are kept to a minimum.

Open to: Grades 11, 12  
Prerequisite: Stagecraft I and Teacher Approval

Term: 2 sem  
Credit: 1.0 unit  
(Fine Art Credit)

### INTRODUCTION TO COSTUME

Code: 04T61101

Students will learn the basic elements of costume design, including character/script analysis, collaboration, historical and sociological research, visual design ideas and techniques, budgeting and time management as well as both hand and machine sewing skills related to the basics of creating and altering clothing. Knowledge of fabrics and materials as well as costume history will be explored. There is no requirement of previous sewing experience but solid craft will be stressed. An additional supply list may be required for students’ individual needs.

Open to: Grades 9, 10, 11, 12  
Prerequisite: None

Term: 1 sem  
Credit: 0.5 unit  
(Fine Art Credit)

## STUDY SKILLS

### STUDY SKILLS - 7

Code: 05731000

The seventh grade Study Skills class is designed to assist students in the transition from elementary to secondary school. There are certified teachers who assist students in English, Math, Latin, Science and Social Studies. The course fosters academic growth with special emphasis on developing good study techniques.

Open to: Grade 7  
Prerequisite: Counselor Placement

### STUDY SKILLS - 9

Code: 0583100Y

The Study Skills class is open to new WHHS 9<sup>th</sup> graders. The class is designed to help new students make the transition to both the rigorous work expectations as well as to the resources offered at WHHS for social and academic success. It is taught by certified teachers who assist students in academic growth with an emphasis on developing effective study skills habits and techniques.

Open to: Freshman new to school  
Prerequisite: Counselor Placement

Term: 1 sem  
Credit: .5 unit  
(non-academic credit)