

PROGRAM OF STUDIES

# WAPAKONETA HIGH SCHOOL PROGRAM OF STUDIES



## PREFACE

This handbook has been prepared to assist a student in selecting a program of study commensurate with both his/her interests and abilities.

A single selection of a course and a program of study will, to a great extent, govern your future academic and vocational plans. You must consider your previous academic record, your interests, and also your tested aptitudes and abilities before making a final selection or decision.

Courses may have to be cancelled or limited if enrollment does not justify the offering. Exceptions can be made by the building principal in conjunction with the Superintendent of Wapakoneta City Schools.

Students, as well as parents, should contact a counselor or administrator if at any time the handbook does not supply the necessary information.

BEST OF LUCK!  
**Scott J. Minnig**  
Principal

# PROGRAM OF STUDIES

## MINIMUM REQUIREMENTS FOR GRADUATION

\*(22 units)

Listed below are the recommended courses for each year of High School.

(^) Denotes Ohio CORE graduation requirements (beginning with class of 2014)

### Grade 9

English (^)	1	unit
Math (^)	1	unit
Science (^)	1	unit
History (^)	1	unit
Physical Education (^)	¼	unit
Health (^)	½	unit
Electives	1	unit

### Grade 10

English (^)	1	unit
Math (^)	1	unit
Science (^)	1	unit
U. S. History (^)	½	unit
Fine Arts	½	unit
Career Planning	½	unit
Electives	1	units

### Grade 11

English (^)	1	unit
Math (^)	1	unit
Government	1	unit
Science (^)	1	unit
Computer Applications 1	½	unit
Electives	1 ½	units

### Grade 12

English (^)	1	unit
Economics	½	unit
Math (^)	1	unit
Electives	2 ½	units

**Computer Apps 1** – Required by all students.

**Fine Arts** – A ½ unit is required for graduation. Students may use any Art class, Band, Choir or Musical Theater. A full Fine Arts credit is required for earning an Honors Diploma.

## **(^) Ohio CORE Graduation Requirements (beginning with class of 2014)**

The Ohio CORE was established by the State of Ohio in Senate Bill 311 and essentially created new graduation requirements for all students who enter 9th grade after July 1, 2010. Wapakoneta has always had high standards for our students so there is very little change to the requirements. However, these are requirements and they must be met to earn a diploma. The units required are outlined below:

- Mathematics: shall include one unit of Algebra II or the equivalent.

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- Science: Including an inquiry based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. Advanced study on one or more of the following sciences: chemistry physics or other physical science, advanced biology or other life science, astronomy, physical geology, or other earth or space science.
- Financial Literacy: (no specific unit required)                      ½ unit at WHS
- Fine Arts: Two Semesters (career technical students are exempted from this requirement). Credits can be earned grades 7 through 12 for Fine Arts.

One sequence or any combination of foreign language, fine arts, business, career-technical education, technology, agricultural education, or English language arts, mathematics, science, or social studies courses not otherwise required for a total of six units.

## COLLEGE PREPARATION

The State Board of Education has determined that a student who is planning on attending college should take the following: 4 units of English, 4 units of Math, 3 units of Science, 3 units of Social Studies, 3 units of World Language, and 1 unit of Fine Arts. Therefore, students seriously planning for college should include these courses in their program. Academically talented students have the option of starting their college career early by concurrently enrolling in an area college or university. The details of such an arrangement are to be worked out with guidance personnel.

## COMMENCEMENT

The privilege of participation in commencement exercises is reserved for those students who have completed all of the requirements as set forth by the Wapakoneta Board of Education and the State Board of Education. Students failing to meet these requirements will not be permitted to march in the formal commencement exercises, but will be granted their diploma when the requirements have been met and all fees have been paid. **Board Policy #5460**

## DECLARED COURSES (SENIOR OPTION)

Senior students may declare one (1) full-year course or two (2) semester courses as a “no-count” course(s). The purpose of this plan is to permit senior students to take courses they have avoided for various reasons. Perhaps a student has not taken a keyboarding class because their manual dexterity is not what they would like it to be, or they have limited artistic ability. Senior Option papers must be signed out and returned to the guidance department prior to the end of their junior year. The course will be graded as satisfactory (P) or unsatisfactory (F). The course record will appear on the official transcript. It is hoped this plan will encourage students to take elective classes in fields of personal interest. **Please note that passing a declared course requires a 74% average or higher. Dropping a declared course will follow the same guidelines as dropping a regular course. These courses do not count toward advanced credit in the class rank formula; therefore, they are not counted as honors credit.**

The following rules apply in determining the course to be declared:

1. No changes to declarations are permitted after the completion of the student’s junior year.
2. Declared courses are limited as follows:
  - English – only credits beyond 4
  - Social Studies – only credits beyond 3
  - Mathematics – only credits beyond 4
  - Science – only credits beyond 3
  - World Language
  - Business – any course
  - Industrial Technology – any course
  - Art – any course
  - Music – any course

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### GUIDELINES FOR VIRTUAL, CORRESPONDENCE, AND INDEPENDENT STUDY COURSES

**\*\*All students are to contact their guidance counselor for these programs\*\***

#### **Virtual Courses:**

Approved by the principal and counselor

Taken and completed within the same calendar year (August to May)

No honors/advanced credit available

**Note: If you plan to take a virtual course, you must pay for the course and get registered by the first day of a semester.**

#### **Independent Courses:**

Approved by the principal and counselor

Taken from a WHS instructor

Complete all work that regular classroom students complete

Taken and completed within the same calendar year (August to May)

No honors/advanced credit available

**Correspondence Courses:** Approved by the principal and counselor, No honors/advanced credit available

### CHANGE OF CLASS SCHEDULE

**Courses selected during registration should be considered as final. Books and supplies are ordered and teachers placed on the basis of your selections. Only changes necessitated by course cancellation or administrative decisions will be considered.**

The counselors and administration will review all requests for schedule changes. A student who is permitted to drop a course during the second week of any semester classes or third week of a year course will have no record of that course appear on his/her transcript. Students are reminded that in most instances dropping a course is not an option!

Options open to a student beyond the above time limits include: (1) The student will remain in the course with a commitment to success. (2) The student will drop the course with the grade of F. The F will be counted as hours attempted in computing the grade point average. (3) Administrator and counselors will review in the case of academic misplacement. Student fees paid are non-refundable for classes dropped.

### PUPIL LOAD

Each student is required to carry a minimum credit load.

9th 5  $\frac{3}{4}$  credits

10th 6 credits

11th 6 credits

12th Must schedule enough courses to meet the minimum number of 22 credits for graduation. In order to be considered a full time student or participate in sports, you must schedule a minimum of five credits.

### EDUCATIONAL OPPORTUNITY RIGHTS

The Wapakoneta City School District does not discriminate in admission, access, treatment, or employment in its programs and activities on the basis of race, color, sex, age, national origin, religion, or handicap condition.

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### **8<sup>TH</sup> GRADE:      \*\* HS Credit**

#### **#10 - PHYSICAL EDUCATION**

**1 semester                      ¼ unit**

Physical Education is required of all 8<sup>th</sup> Grade students. Activities offered include: fitness, recreational sports, softball, lifetime sports, speedball, tennis, and volleyball. A course fee will be charged.

#### **#20 - ART**

**1 semester**

Students will be exposed to a variety of art techniques. This will include basic drawing and sculpture. Basic design elements and principles will be introduced. A course fee will be charged.

#### **#22 – BAND**

**1 year**

Band is a musical organization that provides students with an opportunity to explore the world of instrumental music. Foremost among the objectives of band is to provide students with the opportunity to become intimately acquainted with band literature, and foster a love for and understanding of music.

Participation in band should provide a self-satisfying level of proficiency and achievement, as well as a strong basis for further enrichment, either with continued study or as a vocation. Band places emphasis on the refinement of the basic fundamentals of performance, both individually and as a group, and development of discriminative listening. Since the majority of its members will not be professional musicians, the program strives to produce an appreciation of the arts as a form of communication, self-expression and an essential part of life and the human experience. In addition to these basic objectives, participation in band develops leadership and responsibility, cooperation, self-discipline, self-motivation and cultural awareness. Participation in band should lead the student to recognize the unique contributions of music as an art form.

#### **#24 - 8<sup>th</sup> GRADE CHOIR**

**1 year**

Open to any 8<sup>th</sup> grade student who is interested and enjoys vocal music. A variety of music styles are sung and performed from classical to pop and musical theatre to contemporary.

#### **#25 – 8<sup>th</sup> GRADE BAND/CHOIR**

**1 year**

#### **#30 – PRE ENGINEERING – Automation & Robotics**

**\*\*1 semester                      ½ unit**

Students will be introduced to the design and modeling process. Utilizing this design approach students will create models and use documentation to solve problems. They learn about structures, energy transfer, machine automation, and computer programming. Students acquire knowledge and skills in engineering problem solving and explore requirements for careers in engineering. A course fee will be charged.

#### **#40 – INTRODUCTION TO AGRICULTURE SKILLS**

**1 semester**

This is an exploratory course for 8<sup>th</sup> grade students to become familiar with various subjects taught in the Agriculture Education curriculums. Much of the class will be hands-on learning. Content that will be covered includes: animal sciences, woodworking, MIG welding, machinery safety, Bobcat operation and careers in agriculture. A course fee will be charged.

#### **#60 - SOCIAL STUDIES**

**1 year**

During this year-long course, students will explore American History from colonization through the Civil War. This course will concentrate on the following of the United States and the dawn of a new democratic government. Students will experience the struggle of a new country to find an identity in the world, and this struggle will eventually lead to the division of the nation during the Civil War. Students will develop the skills necessary to become responsible American citizens. A course fee will be charged.

#### **#70 – LANGUAGE ARTS**

**1 year**

The 8<sup>th</sup> grade Language Arts program provides students with the opportunities to integrate reading and writing as they develop their language arts skills. Instruction provides the students with the necessary skills to write various types of genres and develop an ability to closely read and respond to texts in an essay format. This program provides opportunities for students to interpret and to analyze literature, including short stories, poetry, novels, and drama. This course encourages students to think independently, solve problems, master oral and written communication

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skills, and utilize correct grammar and punctuation on all written products. A course fee will be charged.

functions, radical functions, and rational functions. A course fee will be charged.

### **#80 - SCIENCE:**

**1 year**

This class is required for all students. This class will cover various topics in earth & space, life and physical sciences. Emphasis will be put on materials required to pass the 8<sup>th</sup> grade science achievement assessment. A course fee will be charged.

### **#91 – 8<sup>TH</sup> GRADE MATH**

**1 year**

**PREREQUISITE:** *Recommendation from previous instructor.*

CALCULATOR: Scientific calculator required (like the TI-30XII), but a graphing calculator (like the TI-84 PLUS) is preferred. \*Please save the TI-points from the package by the UPC symbol\*

This is a course for the student who needs to strengthen his or her skills before taking Algebra 1. This course will prepare the student for the Ohio Achievement Assessment. Topics covered include: principals of Algebra, rational numbers, graphs and functions, exponents and roots, ratios, proportions and similarity, percents, foundations of Geometry, perimeter, area, volume, data and statistics, probability, multi-step equations and inequalities, graphing lines, sequences and functions, and polynomials. A course fee will be charged.

### **#92 – ALGEBRA**

**1 year**

**1 unit**

**(Open to selected 8th grade students)**

**PREREQUISITE:** *Recommendation from previous instructor.*

CALCULATOR: Scientific calculator required (like the TI-30XII), but a graphing calculator (like the TI-84 PLUS) is preferred. \*Please save the TI-points from the package by the UPC symbol\*

Students in this course will be exposed to mathematical skills that will begin to prepare the student for future mathematical courses in college and for technical occupations. Some of the topics mathematical covered include solving and graphing equations and inequalities with one of two variables, proportions, percents, systems of equations, exponents, polynomials, factoring, linear functions, linear functions, quadratic functions, data analysis, probability, exponential

# Welcome to the High School Building!

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## VOCATIONAL AGRICULTURE:

**\* For everyone..... not just farmers.**

### **#190 – AGRICULTURE SKILLS 1**

**1 year + project            1 unit**

### **#190A – AGRICULTURE SCIENCE**

**1 year                            ½ unit**

Agriculture Science & Skills 1 is an introductory course in agricultural science. Subject matter and learning activities are concerned with the basic principles and process of animal, soil sciences, genetics, communications and leadership development, agricultural engineering and natural resource conservation. Areas to be covered in the shop include: learning how to operate all power equipment, basic welding, learning to drive and handle equipment, record keeping through Agricultural Education Tracker, and shop safety. **(There is one required wood and metal project.) ½ credit for science will be awarded. A course fee will be charged.**

### **#290 – AGRICULTURE SKILLS 2**

**1 year + project            1 unit**

### **#290A – AGRICULTURE SCIENCE**

**1 year                            ½ unit**

Agriculture Science & Skills 2 is a continuation of Agriculture Science 1, to include Parliamentary Procedure, introducing and expanding on information given in the first year. Areas to be studied include: small engine operation and mechanics, oils and fuels, computer work, analysis advanced welding with (MIG) wire welder, basic brazing, oxy acetylene, cutting dairy production, machinery safety, showmanship, agronomy and plant science, and FFA projects. Field trip opportunities include: Urban Soil Judging, Farm Science Review, National Convention, and State FFA Convention. **(There is one required wood and metal project.) ½ credit for science will be awarded. A course fee will be charged.**

### **#390 – Agriculture Education 3**

**1 year + project            1 ½ units**

Agriculture Education 3 goes more in depth into the work and business skills that will be needed after graduation. Topics that will be covered include: advanced welding, a concrete pouring project, applications of the computer for business and farming, a large wood and/or metal project, parliamentary procedure, combines, sales, business and financial management, financial statements, FFA projects,

marketing, land lab care, and 4-5 weeks of free shop time. A course fee will be charged.

### **#391 – AGRIBUSINESS 1**

**1 year                            1 unit**

Agribusiness 1 is a diversified cooperative education program designed to prepare students to successfully enter, compete, and advance in any agricultural occupation. Content includes: agricultural mechanics, job seeking skills, legal requirements, financial statements, entrepreneurship, developing markets, goals, taxes, complete and process application forms, job advancement, agricultural safety, technology in the work place, managing business risk, concrete, metal and woodworking skills, general maintenance, and mechanics. A course fee will be charged.

### **#490 – AGRICULTURE EDUCATION 4**

**1 year + project            1 ½ units**

Agriculture Education 4 is the final step of vocational training before one goes on to further his/her education or into the work force. Content that will be covered includes: advanced welding and metal usage, masonry construction of buildings, parliamentary procedure, calibration of sprayers, sales, taxes, insurance, FFA projects, farming and Ag. related projects, animal feedings and housing, crop chemicals, spray painting, planters and drills, land lab care, and 4-5 weeks of shop skills. A course fee will be charged.

### **#491 – AGRIBUSINESS 2 CLASS**

**1 year                            1 unit**

### **#492 – AGRIBUSINESS 2**

**WORK                            3 units**

***PREREQUISITE: Agribusiness #391 or permission of instructor.***

This course is a continuation of Agribusiness #391. Agricultural mechanics and management are a large concern; however, a strong emphasis is placed on job skills, job retention, and money management. Students must work in an agribusiness-related job, and **FFA involvement is required.** Students may be dismissed to job setting as soon as course requirements are met. A course fee will be charged.

**\*FFA is required of all students enrolled in any of the Vocational Agriculture classes. Students must have a project such as: animals, crops, garden, etc., or a job during each respective year.**

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### ART:

#### **#110 – FUNDAMENTALS OF ART**

1 semester                      ½ unit

***Open to sophomores, juniors and seniors.***

An introduction to basic design elements and principles and experience with a variety of art media and techniques. This class must be completed before taking most other art classes. *A course fee will be charged.*

#### **#115 – DRAWING**

1 semester                      ½ unit

***PREREQUISITE: Fundamentals of Art – Recommended for sophomores, juniors, or seniors.***

Drawing is an in-depth study of aesthetics in art. Students will research various topics and create original works of art using a variety of media and techniques. *A course fee will be charged.*

#### **#116 – PAINTING**

1 semester                      ½ unit

***PREREQUISITES: Fundamentals of Art – Recommended for juniors and seniors.***

Students will study the art of painting using watercolors and acrylic techniques. *A course fee will be charged*

#### **#117 – DRAWING AND PAINTING II:**

1 semester                      ½ unit

***PREREQUISITES: Drawing I and Painting I***

In this class, a variety of drawing and painting media will be used to develop creativity and visual communication skills for personal expression. This is a studio course with art history, criticism, and aesthetics integrated into the units of production. You will occasionally write and research about issues related to your artwork. Students interested in furthering a career in art will be encouraged to add to their portfolio. *A course fee will be charged*

#### **#169 – DIGITAL DESIGN**

1 semester                      ½ unit

***Open to students 9-12th grade***

Students will be introduced to the Adobe Design Suite; including Adobe Photoshop, illustrator and inDesign. Students will apply graphic design concepts to create real-world projects and portfolio pieces.

#### **#266 – CERAMICS 1**

1 semester                      ½ unit

***Open to sophomores, juniors and seniors.***

A course designed to introduce the ceramist to the various clay materials available and methods in which to use them. Hand-built methods for constructing pottery and glazing techniques will be taught. *A course fee will be charged.*

#### **#269 – SCULPTURE**

1 semester                      ½ unit

***Open to sophomores, juniors, and seniors.***

A course designed to generate personal creative expression through 3-dimensional media. A wide range of methods and materials such as soapstone, plaster, wire, clay, and papier Mache' will be presented. *A course fee will be charged.*

#### **#270 – SCULPTURE II:**

1 semester                      ½ unit

***PREREQUISITE: Sculpture I***

This course is a continuation of Sculpture I; you will work with many of the same media. A more advanced approach to subject and composition is expected. This course is a studio course with art history, criticism, and aesthetics integrated into the units of production. You will occasionally write and research about issues related to your artwork. Students interested in furthering a career in art will be encouraged to add to their portfolio. *A course fee will be charged*

#### **#276 – CERAMICS 2**

1 semester                      ½ unit

***PREREQUISITE: Ceramics 1***

Students will expand upon their previous background in Ceramics 1. Emphasis is placed on form and creativity of pieces with an introduction to throwing on the wheel. *A course fee will be charged.*

#### **#375 – ART HISTORY**

1 semester                      ½ unit

***Open to sophomores, juniors, and seniors.***

This course focuses on the study of art history from cave paintings to modern day. Projects emphasize time periods. *A course fee will be charged.*

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### **#376 – CERAMICS 3**

**1 semester                      ½ unit**

***PREREQUISITE: Ceramics 2***

Ceramics 3 is an advanced pottery class that may be taken after the successful completion of Ceramics 2.

Total emphasis is placed on wheel-thrown projects.

*A course fee will be charged.*

### **#467 – STUDIO/PORTFOLIO/PAINTING**

**1 year                              1 unit**

***PREREQUISITE: Fundamentals of Art & Beginning Drawing – serious senior art students only.***

This class is designed for the serious art student. Each student will plan most of his/her own assignments using a variety of drawing, acrylic and watercolor painting, collage, and printing techniques. Each student will be required to prepare a professional portfolio of his/her best artwork. *A course fee will be charged.*



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## BUSINESS/COMPUTER

### APPLICATIONS:

#### **#140 – COMPUTER APPLICATIONS 1**

**1 semester                      ½ unit**

Students will learn the basics of Microsoft Word, Excel, PowerPoint and Access. Students work independently, are responsible for completing the software applications, and for their conduct/work ethics. A course fee will be charged.

#### **#240 – COMPUTER APPLICATIONS 2**

**1 semester                      ½ unit**

***PREREQUISITE: Computer Applications 1***

This course concentrates on the more advanced levels of Microsoft Word, Excel and PowerPoint. Students will also explore Publisher and Photoshop while completing hands-on simulation to create his or her own sports team. Students work independently, are responsible for completing the software applications, and for his or her conduct/work ethic. A course fee will be charged.

#### **#242 – MARKETING**

**1 semester                      ½ unit**

This course will give students the opportunity to explore the strategies businesses use to sell products. Students will learn about the concept of marketing, including understanding the customer, gaining a competitive advantage, and using creative advertising. Do you want to learn more about what goes into selling a product? Then this is the course for you. A course fee will be charged.

#### **#243 – ACCOUNTING 1**

**1 semester                      ½ unit**

Students in this course will learn financial responsibility through a hands-on approach. This course covers the fundamental principles of accounting, basic accounting terminology, techniques and practices, financial record keeping, typical accounts for proprietorship and partnerships, income determination, expenditures and budgets, and introductory financial statements. A course fee will be charged.

#### **#244IND – ACCOUNTING 2**

**1 semester                      ½ unit**

***PREREQUISITE: Accounting 1***

This material is presented in an independent study format. Students will build on the concepts learned in Accounting 1 by completing a business accounting simulation. They will also learn to keep records for a corporation including stock records, figuring dividends, notes receivable, notes payable, and computing depreciation. A course fee will be charged.

#### **#245IND – ACCOUNTING 3**

**1 semester                      ½ unit**

***PREREQUISITE: B average in Accounting 2 and recommendation of teacher.***

This course is presented in an independent study format. Accounting 3 students will build on the concepts learned in Accounting 2. Students will also learn about cost accounting. This course is an independent study only course and is limited to 10 students. A course fee will be charged.



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### **ELECTIVES:**

#### **#149 – CULTURES**

**1 semester                      ½ unit**

This course familiarizes students with the people and cultures of different countries. It examines the social, political, religious diversity, intellectual, technological, economic, and social cultures of the world as well as the culinary customs of each country. A course fee will be charged.

#### **#192 – CONSTRUCTION MAINTENANCE**

**1 semester                      ½ unit**

Basic skills taught to students that include: MIG welding, wood working, concrete and masonry, oxyacetylene torching, and basic machinery maintenance. A course fee will be charged.

#### **#205 – TAKING CENTER STAGE**

**1 semester                      ½ unit**

Taking Center Stage is an interactive course that allows students to explore the inner workings of theatre arts through study, observation, application, and assessment. Students will examine the history, craft, and art of the stage through various lessons and exercises allowing them to identify and understand the triumphant process made within the world of theatre. Each chapter will challenge students to develop a deeper understanding of the fundamental skills and aspects that make up each area of theatrical productions, acting, directing, design, and technical production.

#### **#293 Career Planning**

**1 semester                      ½ unit**

***(required of all sophomores)***

The purpose of this course is to equip students with the knowledge and skills needed to succeed in their upcoming career planning ventures. Students will identify their interests, skills, personality types, and values as part of the career development process. Students will use their personal profiles to identify the types of academic institutions, areas of study, and/or careers that will best suit them in the coming years. Students will construct individual action plans for their future based on the hands-on activities and information gained through the course. In addition, students will employ and fine-tune a variety of job search strategies including resume writing, interviewing, and networking skills.

#### **#301– SPEECH**

**1 semester                      ½ unit**

***Open to juniors and seniors***

Speech is designed to help students become better speakers and listeners. Students will prepare, present, and evaluate various speaking projects in which they will learn essential communication skills and concepts. Each chapter will tackle heterogeneous topics, theories, genres, and elements of public speaking. After several short presentations, students will be required to present a TED talk, in which they illustrate their understanding of the content presented during the semester.

#### **#304– A.C.T. PREP**

**9 week course**

***PREREQUISITE: Student is required to have taken the A.C.T. at least one time before being admitted in the class.***

The A.C.T. Prep is a course that allows students to prepare for the college entrance tests with a primary focus on the A.C.T. testing. The purpose of the class is to help prepare college-bound students to score adequately on their A.C.T. test and/or to raise their A.C.T. score to a higher level. **\*There is no credit earned for this course.**

#### **#314 – MORNING ANNOUNCEMENTS**

**1 semester                      ½ unit**

***PREREQUISITE: Completion of introduction to the #216 History & Use of TV/Video Technology. Seniors Only.***

This course is designed to further develop a student's understanding of the history and use of advanced post-production video techniques. Students will be able to create broadcast quality video productions using Adobe Premiere and Adobe After Effects Programs. The class will also create a video yearbook for the school. Students are expected to attend two (2) after-school activities for filming and production purposes as assigned by the instructor.

#### **#538– RETRO**

**1 semester                      ½ unit**

Must sign up with Advisors in the fall, and they will send the list to guidance.



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credit. **Three college credits** will be earned from Bowling Green State University for successful completion of this course.

### **#415 CCP HONORS SEMINAR IN RESEARCH WRITING (BSGU WRIT 1120)**

**PREPREGUISITE:** *Successful completion of BGSU WRIT 1110 OR College Readiness ACT scores; English 18, Reading 22, and Math 22 to be eligible for this course. Students will also need to complete a Bowling Green University CCP application process including writing prompt before class starts in August.*

**1 semester                      1 unit**

This course will focus on intensified stylistic and grammatical techniques for formal compositions. Assignments and discussions will center on critical thinking, reading and speaking skills necessary for college. Students must complete an essay portfolio that will be reviewed by BGSU faculty for credit. **Three college credits** will be earned from Bowling Green State University for successful completion of this course. The Diana Hacker Style Manual is required.

### **#413 ENGLISH 12**

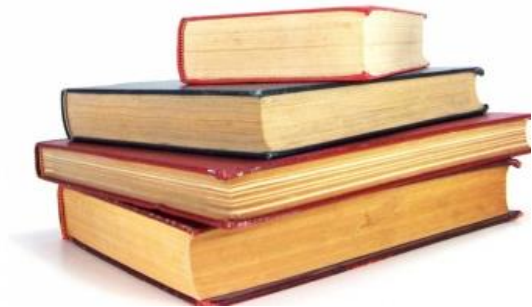
**PREREQUISITE:** *Credit in English 11 and signed recommendation of previous instructor.* This course is a practical English course designed for the following students: (1) those pursuing a two-year associate degree or those enrolling in a technical school; (2) those entering the military; (3) those wishing to perfect their English skills for the job market. This course will focus on the rudimentary skills of writing, reading, comprehensions, and vocabulary development. Students will receive intensive work in the basics of writing, such as writing short paragraphs, letters, and resumes. Areas of concentration will include sentence structure, grammar, spelling, and the mechanics of good writing. Students will complete a year-long research project requiring several writing assignments, volunteering and a portfolio and final presentation. A course fee will be charged.

### **#414 COLLEGE PREP ENGLISH 12**

**PREREQUISITE:** *Credit and a B average in CP English 11 and signed recommendation of previous instructor.*

This course is designed for students planning to enroll in a four-year or longer college program and who seek in-depth study. The focus is on British literature and will include the writing of several longer papers related to the readings and requiring research and formal class

presentations. Extensive grammar and usage study will be focused on helping students create greater sentence variety and eliminating common grammatical errors in preparation for college level writing. The Diana Hacker Style Manual is required. A course fee will be charged.



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### **ENGINEERING & TECHNOLOGY:**

#### **#168 – COMPUTER MODELING AND DESIGN 1**

**1 year                      1 unit**

##### ***Open to freshman-seniors***

CMD is a high school level course that assumes no previous knowledge and is appropriate for any student who is interested in a creative, hands-on approach to education. The major focus of the curriculum (during the first semester) will be to expose and introduce the students to basic drafting, mechanical engineering, and architectural principles. Those principals include; fundamental blueprint reading, simple measurements, multi-view drawings, the introduction to AutoCad software, 2D computer aided drawings and then conclude with Architectural drafting and the construction of a ¼" scale 3D model of a house. During the second semester, we will apply those very same principles, previously learned, to the introduction to 3D Solid Modeling, reverse engineering, and 3D printing of the designs that the students have created and modeled. The program is designed to allow students to develop strategies to enable and direct their own learning, which is the ultimate goal of education. CMD will also help develop the problem-solving skills necessary to create solutions to the various challenges and projects that increase in difficulty throughout the course. A course fee will be charged.

#### **#267 – INTRODUCTION TO ENGINEERING DESIGN**

**1 year                      1 unit**

##### ***Open to Sophomores – Seniors.***

This course teaches students to use problem solving skills by using a design process. Students will create, analyze and communicate results from projects using a 3D computer-aided design software called Autodesk Inventor. Projects will include reverse engineering, structural analysis, advanced modeling skills, advanced designs, and other design projects.

#### **#320 – HONORS COMPUTER SCIENCE: JAVA**

**1 year                      1 unit**

**PREREQUISITE: Program is open to juniors and seniors (underclassmen may be admitted based on prior coding experience). Completion of Alg II is encouraged.**

WHS has been selected to participate in the *Amazon Future Engineer Program*, a program that will be offered in partnership with Amazon and Edhesive. This full-year, self-paced course is designed to develop a foundational understanding of core computer science

and programming concepts. Students will gain experience with the programming language Java during the course. Offered as an independent study program.

#### **#369 – ROBOTICS I**

**1 year                      1 unit**

##### ***Open to 9-12th grade students***

This course gives students hands-on overview of all the different mechanisms that are used within machines and robotics systems. Students will learn about mechanical systems, energy transfer, machine automation, and robotics while building real world models. Students will use software called RobotC to program different sensors such as sonars, encoders, light sensors, potentiometers, and more. In the second half of the year students will compete in challenges and tasks to learn specific programming concepts and skills. Students will learn how to program and move a factory standard FANC robotic arm.

#### **#370 – PRINCIPLES OF ENGINEERING**

**1 year                      1 unit**

##### ***Open to Juniors and Seniors***

This course gives students an overview of all the different engineering/engineering technology fields through hands-on projects and activities. By strengthening student's problem solving skills, students will learn how engineers and technicians use math, science, and technology to solve problems. Topics that will be covered are thermodynamics, fluid systems, electrical systems, control systems, statics and strength of materials, material testing, engineering reliability, and kinematics.

## PROGRAM OF STUDIES

### WORLD LANGUAGE:

All 1 year                      1 unit

#### #150 Spanish I

**PREREQUISITE:** *Students with a 2.5 GPA are eligible to take this class. Listening, speaking, reading, and writing skills are emphasized.* Students will be encouraged to learn Spanish much like how they learn English. Students will do actions for words and will start to build a strong vocabulary base by learning high frequency vocabulary. The grammar focus will be on the present tense verb forms. Students will also learn the different components of the culture of Spain. Willingness to participate is very important!! A course fee will be charged.

#### #154 French 1

**PREREQUISITE:** *Students with a 2.5 GPA are eligible to take this class.* Students will learn the basic French vocabulary such as greetings, time, weather, numbers, seasons, colors, classroom objects, sports, and places. The grammar will concentrate on the present and past tense and on adjectives. Students will also study the culture in France concerning families, food, school day and sports. Active participation is expected. A course fee will be charged

#### #156 German I

**PREREQUISITE:** *Students with a 2.5 GPA are eligible to take this class.* This course is a communicative approach to language and designed to give students the ability to understand, speak, read, and write simple German. Primary goals are to introduce beginning students to basic structure of the German language by developing vocabulary and “survival phrases,” to familiarize students with sentence structure through written exercises and listening activities; to give students a basic foundation in German history and culture; and to interest students in traveling to German-speaking countries. A course fee will be charged.

#### #252 Spanish 2

**PREREQUISITE:** *B average in Spanish 1 and recommendation of previous instructor.* In Spanish 2, students will continue an intensive study of grammar and vocabulary. Present and past tenses will be utilized while developing overall language abilities in reading, writing, listening, and speaking. Students will learn about the Mexican and Caribbean cultures. Students will read four novels in order to enhance their language

skills. Willingness to participate is very important!!! A course fee will be charged.

#### #254 French 2

**PREREQUISITE:** *B average in French 1 and recommendation of previous instructor.* In French 2, the students will learn more irregular verbs to use in the present, past and imperfect tense. Students will begin to write about their options, offer advice, and ask questions in French. New vocabulary will include weekend activities, traveling, shopping and food. The culture in this level will focus on French cuisine, hobbies, and the city of Paris. Active participation is expected. A course fee will be charged.

#### #256 German 2

**PREREQUISITE:** *B average in German 1 and recommendation of previous instructor.* This course is a continuation of German 1 with additional stress on conversation, reading, and essential grammatical elements. German culture, history and geography continue to be an integral part of the course. New topics will include the German school system, a “Business German” unit, shopping, travel, famous people, traditional foods and recipe translations, as well as Germany history post – 1945 through Reunification with a focus on the capital city of Berlin. Active participation is expected. A course fee will be charged.

#### #353 Spanish 3

**PREREQUISITE:** *B average in Spanish 2 and recommendation of previous instructor.* Spanish 3 students will further their abilities to speak, listen, write and read in the Spanish language. They will focus on better understanding of grammar and the past tenses and will be introduced to the future, conditional, and present perfect tenses. They will read four novels that will help them enhance their language abilities and will explore the cultures of Spain, Mexico, and Costa Rica. Willingness to participate is very important! A course fee will be charged.

#### #355 French 3

**PREREQUISITE:** *B average in French 2 and recommendation of previous instructor.* In French 3, students will learn to express themselves using several tenses. The grammar will concentrate on the past tense, the imperfect and subjunctive tenses. Students will also learn the future and conditional tenses. The vocabulary will focus on vacations, traveling and

## PROGRAM OF STUDIES

hobbies. Students will read a French play and study the novel *Les Miserables*. In addition, students will learn about famous historical events and places in France. A course fee will be charged.

### **#356 German 3**

**PREREQUISITE: B average in German 2 and recommendation of instructor.** This college-preparatory course is a continuation of German 2 and stresses finer grammatical points, idioms, and higher level vocabulary. This course is highlighted by intensive and extensive reading, discussion and interpretations of more advanced German works on literature, philosophy, and culture. German 3 students will study folklore, art, music, literature, customs, values, and beliefs that are represented in the context of German culture. Realia is incorporated into classwork through websites, music, newspapers, and practical translations. A course fee will be charged.

### **#454 Spanish 4**

**PREREQUISITE: B average in Spanish 3 and recommendation of previous instructor.** Spanish IV is designed to assist students in mastering materials found on college entrance exams for Spanish. The course will be conducted in Spanish, as future college courses function, and students will be expected to polish grammar skills acquired in previous courses. A strong emphasis will be on culture and history/current events in Spain, Mexico, Central America and South America. If possible, a relevant field trip will be offered. They will read four novels that will help them enhance their language abilities. Willingness to participate is a must!! A course fee will be charged.



### **#306 ASL 1**

**PREREQUISITE: No previous knowledge is necessary for ASL 1, but this course is a prerequisite for ASL 2.**

This course is the first of a four-year program designed to provide non-native signers an opportunity to study American Sign Language (ASL) as a foreign language. ASL1 introduces vocabulary and grammar. Additional history and cultural information will be introduced. The class participation includes exercises in grammatical patterns, cultural and literary materials, dialogues, and conversational activities. This course is taught online and has no direct instruction from a teacher.

### **#307 ASL II**

**PREREQUISITE: Students must pass ASL 1 or have the ASL teacher's consent.** This course is the second of a four year program designed to provide non-native signers an opportunity to study American Sign Language (ASL). The class builds upon the topics, vocabulary, and grammar introduced in Level 1. Additional history and cultural information will be introduced. This course is taught online and has no direct instruction from a teacher.

### **#308 ASL III**

**PREREQUISITE: Students must pass ASL II or have the ASL teacher's consent.** This course is the third of a four year program designed to provide non-native signers an opportunity to study American Sign Language (ASL). This class builds upon the topics, vocabulary, and grammar introduced in Level II. Additional history and cultural information will be introduced. This course is taught online and has no direct instruction from a teacher.

### **#309 ASL IV**

**PREREQUISITE: Students must pass ASL III or have the ASL teacher's consent.**

## PROGRAM OF STUDIES

### HEALTH & PHYSICAL EDUCATION:

**\*\*The Wapakoneta City Schools Board of Education has adopted a policy to excuse students from the high school physical education requirement. Each student who, during high school, has participated in interscholastic athletics, marching band, Harmony in Motion, or cheerleading for at least two full seasons or an approved Junior Reserve Officer Training Corps (JROTC) program for two years. Students that complete the previous requirements will not be required to complete any Physical Education course as a condition to graduate. However, students will still be required to complete 22 credit hours to graduate. \*\***

#### **#182 Physical Education (Girls)**

#### **#183 Physical Education (Boys)**

**1 semester                      ¼ unit**

Physical education is required of all freshmen. Activities offered include: archery, fitness, recreational sports, softball, lifetime sports, speedball, tennis, and volleyball. **\*\*This course does not count in G.P.A. A course fee will be charged.**



#### **#184 Health**

**1 semester                      ½ unit**

***Health is required of all freshmen.*** Health units taught include: mental health, physical health, nutrition, harmful/healthful relationships, sex education, sexually transmitted diseases, chemical substances, resistance skills, First Aid, CPR and AED training. **A course fee will be charged**

# PROGRAM OF STUDIES

## MATHEMATICS:

All 1 year 1 unit

### Math Placement Guidelines

<u>Grade</u>	<u>Course</u>
--------------	---------------

8	#91 8 <sup>th</sup> Grade Math
9	#108 Integrated Math
10	#100 Algebra 1
11	#200 Geometry
12	#300 Algebra 2

<u>Grade</u>	<u>Course</u>
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8	#91 8 <sup>th</sup> Grade Math
9	#100 Algebra 1
10	#200 Geometry
11	#300 Algebra 2
12	#400 Pre-Calculus or Applied Math III

<u>Grade</u>	<u>Course</u>
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8	#92 Algebra 1
9	#200 Geometry
10	#300 Algebra 2
11	#400 Pre-Calculus
12	#500 Calculus and/or #436 Statistics

<u>Grade</u>	<u>Course</u>
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8	#92 Algebra 1
9	#225 Honors Geometry
10	#325 Honors Algebra 2
11	#425 Honors Pre-Calculus
12	#525 Honors Calc/#536 Honors Statistics

<u>Grade</u>	<u>Course</u>
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8	#225 Honors Geometry
9	#325 Honors Algebra 2
10	#425 Honors Pre-Calculus
11	#525 Honors Calculus
12	#540 Honors Calc II or #536 Honors Statistics

### General Calculator Requirements

All students taking a math course should have a scientific calculator or graphing calculator. Please see individual course for calculator requirements. We recommend the use of Texas Instrument calculators. If you purchase a Texas Instrument calculator, please save the TI-Points from the back of the calculator package (by the UPC symbol) and turn it into your teacher. These points allow schools to get free Texas Instrument products for classroom use.

### #108 Integrated Math

**PREREQUISITE: Recommendation from 8th grade instructor**

**CALCULATOR:** Scientific calculator required (like the Texas Instrument TI-30XII). (Please save the TI-Points from the package by the UPC symbol.)

This course is for students who need to strengthen their skills before taking Algebra 1. Topics covered include, but are not limited to, principals of Algebra, rational numbers, graphs and functions, exponents and roots, ratios, proportions, and similarity solving equations and inequalities, graphing lines, and functions. A course fee will be charged.

### #100 Algebra 1

**PREREQUISITE: A or B in Integrated Math and/or recommendation from previous instructor**

**CALCULATOR:** Scientific calculator required (like the TI-30XII), but a graphing calculator (like the TI-84 Plus) is preferred. (Please save the TI-Points from the package by the UPC symbol.)

Some of the topics covered include solving and graphing equations and inequalities with one or two variables, proportions, percents, systems of equations, exponents, polynomials, factoring, linear functions, quadratic functions, data analysis, probability, exponential functions, radical functions, and rational functions. A course fee will be charged.

### #200 Geometry

**CALCULATOR:** Scientific calculator required (like the TI-30XII), but a graphing calculator (like the TI-84 Plus) is preferred. Please save the TI-Points from the package by the UPC symbol.

In this course, students will develop reasoning and problem solving skills while studying congruence and similarity, and apply properties of lines, triangles, quadrilaterals, and circles. Students will also use length, perimeter, area, circumference, surface area, and

## PROGRAM OF STUDIES

volume to solve real-world problems. In addition to its geometry content, numerous lessons will help students develop algebra skills. A course fee will be charged.

### **#225 Honors Geometry**

**PREREQUISITE: A or B in Algebra 1 with recommendation from previous teacher.**

**CALCULATOR:** Scientific calculator required (like the TI-30XII), but a graphing calculator (like the TI-84 Plus) is preferred. Please save the TI-Points from the package by the UPC symbol.

This course contains the same topics as geometry, but is designed for those students who desire and can handle a pace of study faster than that of regular geometry.

Because of this faster

pace, a more detailed study of topics can be accomplished. A course fee will be charged.

### **#300 Algebra 2**

**PREREQUISITE: Geometry and or recommendation from previous instructor**

**CALCULATOR:** A graphing calculator is REQUIRED for this course. A calculator from the TI-83 or TI-84 series is preferred. (Please save the TI-points by UPC symbol on package.)

Algebra 2 will cover concepts involving functions which include linear systems, quadratic, polynomial, radical, and rational functions. Concepts will be enriched through the use of the graphing calculator. A course fee will be charged.

### **#325 Honors Algebra 2**

**PREREQUISITE: A or B average in Honors Geometry and recommendation of previous instructor.**

**CALCULATOR:** A graphing calculator is REQUIRED for this course. The TI-84Color Plus is preferred. (Please save TI-points by UPC symbol on package.)

Honors Algebra 2 is designed for those students who desire and can handle a pace of study that is much faster than that of a regular Algebra 2 class. Because of this faster pace, a more detailed study of topics than in an Algebra 2 course can be accomplished. A course fee will be charged.

### **#400 Pre-calculus**

**PREREQUISITE: C average in Algebra 2 and Geometry and recommendation of previous instructor**

**CALCULATOR:** A graphing calculator is REQUIRED for this course. The TI-84 Plus is preferred. (Please save TI-points by UPC symbol on package.)

This course is a pre-calculus course that presents the topics of functions, including polynomial functions and their zeros, circular and trigonometric functions, exponential functions, complex numbers, and conic sections. This course forms a foundation for any college mathematics course. A course fee will be charged.

### **#423 Applied Mathematics III**

**PREREQUISITE: Open to Seniors Only, Algebra 2, Geometry and instructor's recommendation This course is NOT OPEN to students who have credit for Pre-calculus (Trigonometry).**

This course is for seniors only who wish to apply math with real-world situations and with less emphasis on symbolic-manipulation and formal mathematical structure. This course is not NCAA approved and will not meet the mathematic requirements for any athlete attempting to meet those eligibility criteria. A course fee will be charged.

### **#425 Honors Pre-Calculus**

**PREREQUISITE: At least an average of B in Honors Algebra 2 and Honors Geometry, or recommendation of previous instructor.**

**CALCULATOR:** A graphing calculator is REQUIRED for this course. The TI-84 Plus Color is preferred. (Please save TI-points by UPC symbol on package.)

Only the talented mathematics students should elect to take this course. This course is a pre-calculus course that presents the topics of functions, including polynomial functions and their zeros, circular and trigonometric functions, exponential functions, complex numbers, and conic sections. This course forms a foundation for any college mathematics course. A course fee will be charged.

## PROGRAM OF STUDIES

### **#436 Statistics**

**PREREQUISITE: Must be a senior and be taking or have taken Pre-Calculus.**

*Calculator: a graphing calculator is REQUIRED for this course. The TI-84 Plus is preferred. (Please save TI-points by UPC symbol on package.)*

This is a senior course that may be taken in addition to another math course but cannot replace Pre-Calculus. This course is designed for the student that anticipates the need for a statistics course in college but is not interested in the rigor and pace of a CCP course. This course will prepare you for success in a college level course by introducing you to the topics in an introductory college level statistics course. This course does NOT prepare students to take the AP Exam.

### **#500 Calculus**

**Prerequisite: Credit in Pre-calculus or Honors Pre-calculus**

*CALCULATOR: A graphing calculator is REQUIRED for this course. The TI-84 Plus is preferred. (Please save TI-points by UPC symbol on package.)*

This course is designed for students who wish to further their math education following trigonometry. The first quarter of the academic year will review trigonometry and cover pre-calculus topics. Topics will include functions, exponents, regression models, transformations, and trigonometric identities. The remainder of the course will cover the Calculus concepts of limits, continuity, differentiation, and basic integration. The course will emphasize use of the “Rule of Four” with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. A course fee will be charged.

### **#525, 525CCP Honors Calculus 1 (Urbana- Mat 241)**

**PREREQUISITE: B average in Advanced Trigonometry or recommendation of previous instructor. Students requesting CCP courses must achieve College Readiness ACT scores; English 18, Reading 22, and Math 22 to be eligible for this course. Students will also need to complete Urbana University CCP application process.**

*CALCULATOR: A graphing calculator is REQUIRED for this course. The TI-84 Plus Color is preferred. (Please save TI-points by UPC symbol on package.)*

This course is designed for the math student who will be entering the field of mathematics, applied science, computer science, or engineering, and to prepare the student for the Advanced Placement Examinations in mathematics. The course will emphasize use of the

“Rule of Four” with concepts, results, and problems being expressed graphically, numerically, analytically and verbally. Topics include functions, graphs, limits, continuity, differentiation, integration, and an extension of algebra, geometry, and trigonometry. Honors calculus, in general, requires much study time outside of class due to the difficulty of the subject. Upon Completion, **four semesters** of credit from Urbana University will be awarded, and/or the option to take the AP exam at the end of the school year. More detailed information on this course can be found at: <http://www.collegeboard.com/student/testing/ap/subcalab.html?calcab>.

### **#536, 536CCP Honors Statistics (Urbana- MATH 215)**

**PREREQUISITE: B average in Honors Pre-Calculus or recommendation of previous instructor. Students requesting CCP courses must achieve College Readiness ACT scores; English 18, Reading 22, and Math 22 to be eligible for this course. Students will also need to complete Urbana University CCP application process.**

*CALCULATOR: A graphing calculator is REQUIRED for this course. The TI-84 Plus Color is preferred. (Please save TI-points by UPC symbol on package.)*

This is a senior course that may be taken in addition to, or in place of Honors Calculus or Honors Calculus Two. This course is designed for the senior who will be entering such fields of study as: psychology, sociology, computer science, mathematics, biology, nursing, business, linguistics, economics, political science, education, pre-medicine, or pre-law. This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics include graph reading, exploring data, the Normal distribution, sampling and experimentation using probability and simulation, and statistical inference. Upon completion, **four semester hours of credit** from Urbana University will awarded, and/or the option to take the AP Exam at the end of the school year. A course fee will be charged.

## PROGRAM OF STUDIES

### #540 Honors Calculus II

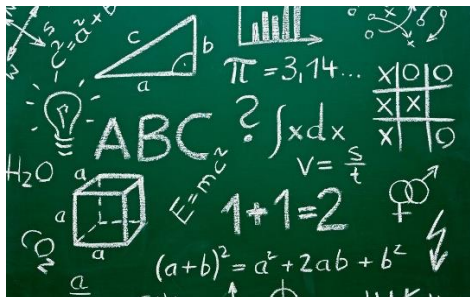
#### **PREREQUISITE: Credit in Honors Calculus 1**

CALCULATOR: A graphing calculator is REQUIRED for this course. The TI-84 Plus Color is preferred. (Please save TI-points by UPC symbol on package.)

This course is designed for the math student who will be entering the field of mathematics, applied science, computer science, or engineering, and is a continuation of Honors Calculus 1. The curriculum for this course will include a review of all concepts taught in Calculus 1.

Additional topics will include: advanced integration, sequences and series, parametric equations, and polar coordinates. The course will emphasize the use of the "Rule of Four" with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Students will have the choice to take the Advanced Placement Calculus BC exam at the end of the course. More detailed information on the course expectations can be found at:

[http://www.collegeboard.com/student/testing/ap/sub\\_calbc.html?calcbc](http://www.collegeboard.com/student/testing/ap/sub_calbc.html?calcbc).



## PROGRAM OF STUDIES

### MUSIC:

#### **#159 Women's Choir**

**1 year**                      **1 unit**

Concert Choir is open to all high school women in grades 8, 9, 10, 11 and 12 who like to sing and perform. A variety of musical styles are sung and performed from classical to pop and musical theater to cotemporary. Performances in concerts throughout the year are required.

#### **#160 Men's Choir**

**1 year**                      **1 unit**

Concert Choir is open to all high school men in grades 8, 9, 10, 11 and 12 who like to sing and perform. A variety of musical styles are sung and performed from classical to pop and musical theater to cotemporary. Performances in concerts throughout the year are required.

#### **#260 Chorale**

**1 year**                      **1 unit**

***PREREQUISITE: Auditions in spring of previous year at director's discretion***

Chorale is an audition choir chosen by the director in the spring of the previous year. Varsity Chorale auditions are open to all high school students. Performances in concerts throughout the year are required.

#### **#261 Band (Marching & Concert)**

**1 year**                      **1 unit**

***PREREQUISITE: Students must enroll in both marching and concert band. The only exceptions to this are students who are participating in a fall sport and have an overly committed schedule as a result. All students, regardless of grade level, need to notify the directors in writing of their planning not to participate in marching band due to the above-mentioned exception. The directors will make the final decision on the validity of the excuse.*** Marching Band rehearsal time is spent acquiring marching techniques needed to perform at the following events: summer parades, all football games, and selected marching band competitions. Attendance at marching band camp is required. **NOTE:** Summer band and some after-school time required. Uniform rental is charged.

#### **262 Flag Corps/Majorettes**

**1 semester**                      **1/4 unit**

***PREREQUISITE: By audition only and band camp attendance is required***

Open to anyone in grades 9-12. Auditions are held in the spring for the following school year. Flag Corps and majorettes perform with the marching band at all summer and fall marching events. Uniform rental is charged. ***\*\* This course does not count in G.P.A.***

#### **#264 Concert Only BAND**

**2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> nine weeks**                      **¾ unit**

#### **##560 Harmony in Motion**

**1 year**                      **1/2 unit**

***PREREQUISITE: Audition in spring of previous year at director's discretion***

"Harmony in Motion" is a select group that rehearses entirely outside of school. A variety of musical styles are sung with choreography. Performances are required throughout the year. Members must provide their own costume for the year. ***\*\* This course does not count in G.P.A.***



## PROGRAM OF STUDIES

### SCIENCE:

#### **#129 Physical Science 9**

**1 year                      1 unit**

In physical science, we study involved chemistry that includes the study of matter, elements, atoms, chemical reactions, chemical bonding, acids, bases and salts. We also study involved physics that includes the study of motion and forces, work and energy, heat and temperature, waves, sound and light. A brief study of nuclear energy is also included. This class is meant to prepare the physical science student for future science classes and to provide a base for a possible career in a related field. Physical science is a high school level course, which satisfies the Ohio Core science graduation requirements of Ohio. This course introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. A course fee will be charged.

#### **#130 Honors Physical Science 9**

**1 year                      1 unit**

***PREREQUISITE: Completed Algebra 1 and recommendation from 8th grade science teacher.***

The student, in most cases, may wish to further his/her education in the field of science, taking Advanced Biology as a sophomore or currently enrolled in Advanced Biology as a freshman, with plans to take both Chemistry, and Physics. In advanced physical science, we study involved chemistry that includes the study of matter, elements, atoms, chemical reactions, chemical bonding, acids, bases, and salts. We also study involved physics that includes the study of motion and forces, work and energy, heat and temperature, waves, sound and light. A brief study of nuclear energy is also included. This course differs from Physical Science in that it will require broader thinking with more in-depth discussion of topics, and moving at a faster pace. A course fee will be charged.

#### **#231 Biology 1**

**1 year                      1 unit**

Biology is offered to those students who wish to study living things. Topics of study include cells, genetics and heredity, classification, ecology, and structure and function of a variety of organisms. A course fee will be charged.

#### **#232 Honors Biology 1**

**1 year                      1 unit**

***PREREQUISITE: Received an A- final average in physical science 9 course and recommendation of previous year's science instructor***

Advanced Biology 1 is offered to motivate students who want to do independent study and advanced reading in Biology. This course will cover the same topics as Biology 1, but in greater detail and with more research assignments. A course fee will be charged.

#### **#332 Health Science Exploration**

**1 year                      1 unit**

***PREREQUISITE: Biology 1***

Health Science Exploration will stretch student's Biology knowledge to understand human biological contents while connecting this with soft medical skills that could introduce them to medical technologies, conditions, and decision making, while exploring careers in the medical field. A course fee will be charged.

#### **#334 Chemistry**

**1 year                      1 unit**

***PREREQUISITE: Algebra 1 must have passed Biology with a B- or better.***

This class is intended for those students who enjoy science and want to gain an understanding of the basic concepts of chemistry. This course is intended for those students enrolled in the regular classes in mathematics. Chemistry is an application math based science. Students will need a calculator for this course. A course fee will be charged.

#### **#337 Environmental Science**

**1 semester                      ½ unit**

***PREREQUISITE: Received a B in Biology or Advanced Biology.***

The goal of Environmental Science is to provide the student with the knowledge, respect and understanding of the natural world around them. The student will be able to understand that nature has everything you need in order to survive and how to use nature to fulfill the basic needs of life. The class will also allow the student 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 for resolving and/or preventing them. They will also be able to have a respect and understanding in regards to land, water and air

## PROGRAM OF STUDIES

pollution in Wapakoneta. A course fee will be charged.

### **#338 Biomedical Science**

**1 year**                      **1 unit**

Students will explore concepts of biology and medicine. Students will also learn about different biomedical professional careers that contribute to managing someone's health. Through hands on learning activities and projects students will be introduced to concepts in human physiology, basic biology, and medical treatments. A course fee will be charged.

### **#339 Human Body Systems (HBS)**

**1 year**                      **1 unit**

#### ***PREREQUISITE: BIOLOGY OR ADVANCED BIOLOGY***

Human Body Systems is a medical career focused, laboratory-based course that investigates the structure and function of the human body. Topics covered will include the basic organization of the human body and each body system (Integumentary, Nervous, Muscular, skeletal, Special Senses, Digestive, Respiratory, Circulatory, Endocrine, Lymphatic, Urinary, and Reproductive), along with the impact of common diseases on certain systems. Students will participate in hands-on dissections and lab activities with an emphasis on advancing their knowledge in preparation for secondary education in the medical field. Students will be required to take the Ohio career WebXam to complete this course. A course fee will be charged.

### **#340 Physical Geology**

**1 semester**                      **½ unit**

Physical Geology is a semester-long high school course open to students in grades 9 – 12. It is worth ½ Science credit. The goal of Physical Geology is to provide students with the scientific principles, concepts, and methods required to understand physical and historical geology. Physical geology examines the materials that comprise the Earth and processes that operate beneath and upon its' surface. Historical geology deals with the origin of the Earth and its development through time. Major topics include plate tectonics, geologic structures such as faults and folds, properties of minerals and rocks, three major rock types, weathering and soil, mountain building, and geologic time. Additionally, emphasis will be placed on the geology of Ohio and its impacts on society. A course fee will be charged

### **#434 Physics**

**1 year**                      **1 unit**

#### ***PREREQUISITE: Algebra 2 (B- or better)***

Physics is a science concerned with the study of energy. Topics to be studied in this course include mechanics (vectors, motion, and forces), properties of matter, energy, heat, waves (light and sound), optics, electricity, magnetism, and electronics. Physics is strongly recommended for any student interested in pursuing a career or college education in the fields of engineering, pre-med, or any science field. It is also recommended to any student planning on attending a liberal arts college or university. A course fee will be charged.

### **#437, 437CCP Honors Biology II (Urbana Bio 207)**

**1 year**                      **1 unit**

#### ***PREREQUISITE: Advanced Biology with a final grade of B or higher or Biology with an A- or higher.***

***Students requesting CCP courses must achieve College Readiness ACT scores; English 18, Reading 22, and Math 22 to be eligible for this course. Students will also need to complete Urbana CCP application process to register for this class.***

This science course focuses on the biological functions and structures common to animals and on the effects of these functions and structures on important interactions among animals, plants, people, and the environment. It will highlight the critical role of animals in almost all ecosystems and the impacts of people on animals. Topics will also include animal classifications, communication, nutrition, inheritance, adaptation, evolution, requirements within ecosystems, and behavior. Upon completion, **four hours** of credit from Urbana will be awarded.

### **#533 Honors Chemistry I**

**1 year**                      **1 unit**

#### ***PREREQUISITE: Algebra 2, and a cumulative GPA of at least a 3.2***

This science course is an advanced level course. The general principles of science with and emphasis on atomic structures and behavior, mole concept, stoichiometric calculations, quantum theory and chemical bonding will be covered. A course fee will be charged.

## PROGRAM OF STUDIES

### #534CCP Honors Physics 1120 – (RSC-PHYS 1120)

1 Semester                      1 unit

**PREREQUISITE:** Alg. 2 (with C or better) and completion of Pre- Calc required. Students are required to have ACT college readiness scores to be eligible for this course.

An introduction to applied mechanical physics. Selected topics include vector forces, moments, constant acceleration, trajectories, friction, concepts of simple machines, rotary motion, work, power, energy, torque, simple harmonic motion, waves & sound, solid & fluid properties, heat & thermodynamics and kinetic theory of gases. Upon Completion, four hours of credit from Rhodes State College will be awarded.

### #535CCP Honors Physics II 1130 – (RSC- PHYS 1130)

1 Semester                      1 unit

**PREREQUISITE:** Alg. 2 (with C or better) and completion of Pre- Calc required. Students are required to have ACT college readiness scores to be eligible for this course.

Introduces applied mechanical physics, which includes: Electric field potential and forces, current and magnetic field integration over continuous charge/current distribution, quantum physics, atomic physics, nuclear physics, induction and inductance, resistance-capacitance and basic circuit analysis, EMF and electric power, electromagnetic waves, Kirchoff's Law, RLS circuits, Faraday's Law, conductivity, geometric optics, diffractions, interference, polarization.



## PROGRAM OF STUDIES

### **SOCIAL STUDIES:**

#### **#114 American History (1945-Present year 1 unit**

This course will study in-depth the time period of the post-civil war era to the present. Special emphasis will be placed on developing the student's critical thinking skills. Students will be able to better understand how the historical events of this time period helped to shape and develop the country we live in today. By better understanding our country's history, students will become more responsible citizens. A course fee will be charged.

#### **#215 World History**

**1 semester ½ unit**

This course examines world events from 1600 to the present. It explores the impact of the democratic and industrial revolutions: the forces that led to world domination by European powers, the wars that changed empires, the ideas that lead to independence movements and the effects of global interdependence. The concepts of history thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. A course fee will be charged.

#### **#216 Introduction to History & Use of TV/Video Technology**

**1 semester 1/2 unit**

***Open to sophomores, juniors, and seniors***

**NOTE:** This course will be a required prerequisite for #313-Visual Art of TV Production of School News. This course will introduce students to the operation of television equipment and the various parts of television studio production. Electronic newsgathering techniques will be taught and students will learn how to create their own video productions. Class size is restricted and preference will be given to students in descending order starting with seniors. A course fee will be charged.

#### **#315 Psychology**

**1 semester ½ unit**

***PREREQUISITE: Open to juniors and seniors only***

This semester course for juniors and seniors is designed to introduce students to the biological and theoretical foundations of psychology. With that said, this class will also be incorporating many ideas and content from the

Sociological Perspective as well. The course will encourage students to develop analytical skills, conduct research, and investigate how the mind-body impacts one's social life. Psychology is the systematic study of individual human behavior and experience. The purpose of this course is to introduce the student to the content, terminology, methodology, and application of the discipline. A course fee will be charged.

#### **#316 Personal Finance**

**1 semester ½ unit**

***PREREQUISITE: Open to seniors only***

This course will emphasize analysis of dates relative to efficient use of economic resources. It is designed to help students understand and value the free enterprise system, make intelligent economic decisions as citizens in a democratic society, and analyze economic principles pertinent to survival in an industrial and information-oriented economy. A course fee will be charged.

#### **#317 American Government**

**1 year 1 unit**

***REQUIRED COURSE FOR JUNIORS***

American Government will give emphasis to a study of the U.S. Constitution and those branches of the national government. Attention will be given to the election process as it pertains to the national, state, and local levels of government. A course fee will be charged.

#### **#520CCP Honors Early America (BGSU Hist. 2050)**

**1semester 1 unit**

***PREREQUISITE: Open to juniors and seniors. Students requesting CCP courses must achieve College Readiness ACT scores; English 18, Reading 22, and Math 22 to be eligible for this course. Students will also need to complete a CCP application for Bowling Green State University.***

Selected constitutional, intellectual, political and social developments that defined and shaped America between its' first settlement and the end of Reconstruction. Upon Completion, three hours of BGSU college credit will be awarded.

#### **#526CCP Honors Modern American History (BGSU Hist. 2060)**

**1 semester 1 unit**

***PREREQUISITE: Open to juniors and seniors. Students requesting CCP courses must achieve College Readiness ACT scores; English 18, Reading 22, and Math 22 to be***

## PROGRAM OF STUDIES

**eligible for this course. Students will also need to complete a CCP application for Bowling Green State University.**

This course is a comparative study of how and why selected economic, intellectual, political and social developments transformed post-Civil War America and shaped 20th-century American society. This class is an Honors class and upon completion, three hours of BGSU college credit will be awarded.

### **#528 Honors Psychology**

**1 year                      1 unit**

This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Examples of topics covered are: history and approaches, research methods, biological bases of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality, abnormal behavior, social psychology. A supplemental workbook, 3-ring binder and 5 subject notebooks will be required for this course.



## CAREER EDUCATION:

**#603- Senior Instructional Leadership Program (SILP)**  
**1 semester                      ½ unit**

***Credits earned do not count towards honor ranking.***

The goal of this class is to allow senior students the opportunity to have leadership roles in the classroom while enhancing the delivery of our curriculum through their talents. Participating teachers will mentor these senior students, who will in turn serve as mentors to younger pupils in the classroom. The seniors who apply, and are selected will be involved in tutoring, small group work, preparation of materials, discussions, and a mini-lesson. Meetings with the teacher will take place during the school day to discuss progress. Students will be required to write a self-evaluation, keep a journal of weekly activities, and follow the guidelines set out in the program code.

\*The number of students selected for this program is limited to 10.



### CALCULATING GPA

As students earn credits for high school graduation, they are establishing their grade point average. GPA is calculated by taking the total point value of the courses and dividing that number by the total number of credits attempting. See the following example where the student attempted 5.50 credits and based on the grades earned, shows a point value of 17.5.

$$17.5/5.50= 3.18 \text{ GPA}$$

CP English 10- 1 credit- B= 3.00

## PROGRAM OF STUDIES

Alg 2- **1** credit- A= 3.67

Biology- **1** credit- B=2.67

Spanish 2- **1** credit- B+=3.33

Wld. History-  $\frac{1}{2}$  credit- A= 2.00 (4.00 point value divided by 2 since the course is only half credit)

Ceramics-  $\frac{1}{2}$  credit- A= 1.83 (3.67 point value divided by 2 since the course is only half credit)

Computer applications-  $\frac{1}{2}$  credit- C=1.00 (2.00 point value divided by 2 since the course is only half credit)

### **WAPAKONETA HIGH SCHOOL**

#### **GRADING SYSTEM**

A	=	4.00	(95-100)
A-	=	3.67	(92-94)
B+	=	3.33	(89-91)
B	=	3.00	(86-88)
B-	=	2.67	(83-85)
C+	=	2.33	(80-82)
C	=	2.00	(77-79)
C-	=	1.67	(74-76)
D+	=	1.33	(71-73)
D	=	1.00	(68-70)
D-	=	.67	(65-67)
F	=	0.00	Below 65

Wapakoneta High School computes accumulated grade point averages on a semester basis rather than on a yearly basis. Being as fair, informative, and truthful as possible in reporting accumulated point averages and subsequent class rank is a worthy educational policy.

#### **CALCULATING FINAL GRADES**

Each nine weeks of the grading period is worth 42.5% and the final exam and S.L.O. are worth 15% of the semester average. If the class is a full-year class the final average is calculated by averaging the first semester average with the second semester.



## PROGRAM OF STUDIES

# **WAPAKONETA LATIN HONORS SYSTEM**

## **BEGINNING WITH THE CLASS OF 2021**

	GPA	ACT	HONORS CREDITS
SUMMA CUM LAUDE	3.9	30	16
MAGNA CUM LAUDE	3.7	27	14
CUM LAUDE	3.5	24	12

The following courses are considered honors credits in the Honors Latin System. Many of the upper level courses are split into a WHS honors course and a CCP honors course, allowing for two honors credits to be earned for that subject in one year. Use this layout as a guide for obtaining those honors classes which are best suited for you.

### NINTH GRADE

- 130 Honors Physical Science 9
- 199 Honors English 9
- 225 Honors Geometry

### TENTH GRADE

- 204 Honors English 10
- 232 Honors Biology 1
- 325 Honors Algebra 2
- 520CCP Honors BGSU Early America 2050

### ELEVENTH GRADE

- 305CCP Honors Intro to Academic Writing  
(BGSU GSW 1110)
- 425 Honors Pre-Calculus
- 525 Honors Calculus
- 525CCP Honors Calculus I (Urbana Mth 241)
- 533 Honors Chemistry I
- 437 Honors Biology II
- 437CCP Honors Biology II (Urbana Zoology 207)
- 526CCP Honors BGSU Modern World 2060
- 528 Honors Psychology

### TWELFTH GRADE

- 415CCP Honors Seminar in Research Writing  
(BGSU GSW 1120)
- 534CCP Honors Physics (Rhodes State Phy 1120)
- 535CCP Honors Physics (Rhodes State Phy 1130)
- 536 Honors Statistics
- 536CCP Honors Statistical Concepts (Urbana Mth 215)
- 540 Honors Calculus II



# PROGRAM OF STUDIES

## DIPLOMAS

Wapakoneta High School students having met specific criteria shall be recommended for one of the two Diplomas as outlined.

### 1. Regular Diploma

Students must successfully complete twenty-two (22) credits including those specifically required as listed on page 2 under Requirements for Graduation. (Complete and pass end of course exams)

### 2. Diploma with Honors

To earn an honors diploma, a student must meet at least seven of the eight criteria. A school district may not require students to meet any single criterion, nor may a district add any criterion to those established by the State Board of Education Approved Criteria: Diploma with Honors

<b>Comparison of Diplomas with Honors Criteria</b>			
<b>Students need to fulfill all but one criterion for any of the following Diplomas with Honors.</b>			
<b>Subject</b>		<b>High School Academic Diploma With Honors / Graduating Classes 2011 and Beyond</b>	<b>Career-Technical Diploma with Honors For Graduating Classes 2011 and Beyond</b>
<b>English</b>		4 units	4 units
<b>Mathematics</b>		4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content.
<b>Science</b>		4 units, including 2 advanced science units	Including 2 advanced science units
<b>Social Studies</b>		4 units	4 units
<b>World Language</b>		3 units, including at least 2 units in each language studied	Not counted toward requirements
<b>Fine Arts</b>		1 unit	Not counted toward requirements
<b>Career-Technical</b>		Not counted toward requirements, and may not be used to meet requirements.	Now counted in Electives
<b>Electives</b>		Not counted toward requirements	4 units of Career-Technical minimum. Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post-secondary credit.
<b>Grade Point Average</b>		3.5 on a 4.0 scale	3.5 on a 4.0 scale
<b>ACT/SAT Score (excluding scores from the writing sections)*</b>		27 ACT / 1210 SAT	27 ACT / 1210 SAT
<b>Additional Assessment</b>		Not applicable	Achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment or equivalent.

\*Writing sections of either standardized test should not be included in the calculation of this score.

## PROGRAM OF STUDIES

### NCAA INITIAL ELIGIBILITY

In order to be considered eligible to play and/or receive any scholarship money at an NCAA Division I or Division II college or university, certain academic requirements must be met. The requirements will vary depending upon the NCAA Division (I, II or III) that the university competes in.

To be eligible under **NCAA Division I requirements**, students must:

#### **Division I Full Qualifier**

- Complete 16 core courses **and** earn a GPA at least 2.3 in those core courses
- Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
- Seven of the 10 core courses must be in English, math or science.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale.
- Graduate high school.

#### **Division I Academic Redshirt**

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.00.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale.
- Graduate High School.

#### **Division I**

##### **16 CORE COURSES**

- 4 years of English
- 3 years of mathematics (Algebra I or higher)
- 2 years of natural/physical science (1 year of lab if offered by the school)
- 1 year of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy)

To be eligible as a **Full Qualifier** under **NCAA Division II requirements**, students must:

- Complete 16 core courses
- Have a minimum GPA of 2.00 in those core courses
- Have a minimum of 820 SAT (verbal and math only) **or** a minimum of 68 ACT sum score
- Graduate High School.

To be eligible as a **Partial Qualifier** under **NCAA Division II requirements**, students must:

- Complete 16 core courses
- Have a minimum GPA of 2.00 in those core courses

#### **OR**

- Have a minimum of 820 SAT (verbal and math only) **or** a minimum of 68 ACT sum score
- Graduate High School.

#### **16 CORE COURSES**

- 3 years of English
  - 2 years of mathematics (Algebra I or higher)
  - 2 years of natural/physical science (1 year of lab if offered by the school)
  - 3 year of additional English, mathematics or natural/physical science.
  - 2 years of social science.
  - 4 years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy)
- NOTE: At this time, the NCAA Division does not accept computer courses or credit flex for core courses.

To be eligible to play under **NCAA Division III requirements**, the student must be accepted by the college or university and satisfy that institution's academic requirements.