

VAN WERT HIGH SCHOOL



***2017-2018
Course Description
Booklet
Cougar Pride in All We Do***

Van Wert High School

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Visit us at.....www.vanwertcougars.net



Home of Cougar PRIDE!

February, 2017

Dear Students and Parents:

Welcome to the 2017-2018 Van Wert High School Course Description Booklet designed to inform you of the many academic options available to you for the upcoming year. Hopefully, this course description booklet is easy to understand and use. As you begin to study all of the options within this booklet, should you have questions, please feel free to contact Van Wert High School.

It is the philosophy of Van Wert High School that careful planning and preparation for one's course of study throughout four years of high school is considered most important by the teaching staff and administration. In fact, it is quite apparent that the Ohio Legislature and the Ohio State Department of Education continue to "raise the bar" and expect more academically from the students of this state. The intent of our message is to strongly encourage all students and parents to realize that the academic expectations from schools continue to change. The way things were in schools when we were students are gone! We strongly believe that the state legislature, the state department of education, and educators must continue to seek new and innovative ways to cognitively engage students in their learning. Now we believe it is important to help bring the students and parents along with these same expectations.

Again, please realize that this Course Description Booklet is intended to assist students and parents in a better understanding of the course work and expectations which culminate in the granting of a high school diploma by the Van Wert City Schools Board of Education and is accessible online at the Van Wert High School website (hs.vanwertcougars.net/academics).

We welcome any opportunity to answer questions you may have concerning curriculum and/or the course of study at this high school. You may contact the Principal's Office (419-238-3350) or the Office of Student Services (419-238-2180), Monday through Friday, between the hours of 8:00 a.m. and 3:30 p.m.

Respectfully,

Robert A. Priest
Principal

Stephanie J. Hanneman
Counselor

Kerry D. Koontz
Counselor

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VAN WERT HIGH SCHOOL

This page has been prepared so that each student, with the help of parents, teachers, and counselors may plan his/her high school years. The courses that the student elects to take should meet needs which occur immediately after graduation and in later life.

The State Department of Education and the Van Wert City Board of Education require that certain subjects be satisfactorily completed for graduation.

GRADUATION REQUIREMENTS

To graduate from Van Wert High School a student must:

1. Complete four years of high school attendance and/or:
2. Class of 2018 and beyond to complete 21 units of credit as follows:
 - English4 units
 - Science.....3 units
 - Math (required to complete Algebra II)4 units
 - Social Studies.....3 units
 - Physical Education 1/2 unit (2 classes)
 - Health1/2 unit
 - PLUS
 - Electives.....6 units**1 unit of Fine Arts must be completed in grades 7 -12

And

3. All students take end-of-course exams in the following:

Algebra I and Geometry
Biology
American History and American Government
English 9 and English 10

Students must earn a total of 18 graduation points across all end-of-course tests. Students must earn a minimum of four points in math, four points in English and six points across science and social studies.

Using the end-of-course tests the graduation points system scoring would be:

Advanced – 5 points	Basic – 2 points
Accelerated – 4 points	Limited – 1 point
Proficient – 3 points	

4. Additionally, every student in the Class of 2018 and beyond will have the opportunity to take a nationally-recognized college admission exam free of charge in Grade 11. Van Wert High School will be giving the ACT exam.

GRADUATE OF DISTINCTION AWARD

Students to be considered for the Graduate of Distinction Award must meet the following criteria through 8 semesters:

1. Top 10% of the graduating class based upon class rank
2. Cumulative GPA of 3.85 or higher
3. Students must have successfully completed a minimum of 3 Advanced Placement courses (7 AP courses are offered at Van Wert High School)
4. Students must have no incidents of cheating or plagiarism reported to principal's office.

DIPLOMA WITH HONORS

(College preparatory education)

A Diploma with Honors will be awarded to any graduating student who:

- ◆ successfully completes the approved curriculum requirements
- ◆ student must meet the criteria for the high school diploma
- ◆ meets the criteria for honors provided below

The graduating student who completes the college preparatory curriculum in high school shall meet at least seven of the following eight criteria:

1. earn four units of English
2. earn four units of mathematics including Algebra I, Geometry, Algebra II, or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
3. earn four units of science including Physics and Chemistry
4. four units of social studies
5. earn either 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 4.00 scale up to the last grading period of the senior year
8. obtain a composite score of 27 on the ACT or an equivalent composite score of 1210 on the SAT (excluding scores from the writing section)

*Fine Arts: Acting, Choir, Band, Music Appreciation, Music Theory, Theater Appreciation I & II, Television Production courses, Art/Ceramic courses

COLLEGE CORE CURRICULUM FOR THE STATE OF OHIO

If you plan to attend any one of Ohio's public or private four year colleges or universities, the following courses are recommended:

- 4 Units of College Bound English
- 4 Units of Mathematics (Algebra I, Algebra II, Geometry and Pre-Calculus)
- 3 Units of College Bound Social Studies (Am Lit, World Lit and Government)
- 3 Units of Science (2 of which should include lab sciences)
- 2 or 3 Units of Foreign Language
- 1 Unit of Fine Art (Band, Choir, Art, Ceramics, Elements of Theatrical Design, Fundamentals of Performance, TV Production)

If you do not follow the college preparatory curriculum, you may not be given unconditional admittance. This means you may be required to attend a developmental class at your expense, or take extra courses, which will not count toward a degree. See a counselor for more information.

PREPARING FOR REGISTRATION

1. Consideration is given to course requests, not teacher requests.
2. Students are asked to read this booklet carefully and choose subjects to meet their own needs.
3. Be sure to include in your planning, the subjects required for your grade in school.
4. All attempts will be made to honor the student requests for courses; however, it is not guaranteed that a student will receive all selected courses.
5. You will be expected to adhere to the choices you make for the year ahead.
6. Your counselors, teachers, and administrators stand ready to help you work out your choices and they recommend that you discuss these choices with your parents.
7. In elective courses, every attempt will be given for preference to Seniors, Juniors, Sophomores, and Freshmen in that order.
8. In choosing semester courses, always select enough for the entire year.
9. You are to carry at least six (6) academic classes each semester regardless of the number you need to reach the required minimum for graduation. Students are then permitted one (1) study hall during the 7 period day.

DROP POLICY

If it is necessary to make a schedule change, the following procedure will apply:

1. With written parental permission a student may drop within the first ten (10) days of that course. This will not appear on the student's permanent record.
2. The student must schedule 6 periods every day.
3. After 2 weeks, changes within the guidelines will be made upon approval by the principal, guidance counselors and teachers.
4. After 2 weeks, withdrawal will result in an "F" for the semester which will be figured into the student's GPA.
5. The parent has the right to appeal the withdrawal decision to an Appeal Board within 1 week. The Appeal Board shall consist of a high school administrator, counselor, and a representative from faculty council.

INCOMPLETES

Students have 10 school days following the last day of the previous grading period to make up incomplete work. Those incompletes that are not made up within the period of 10 school days will receive a failing grade unless given special approval through the principal's office.

VAN WERT HIGH SCHOOL GRADING SCALE

The classroom follows the Board of Education Uniform Grading Scale for Van Wert High School.

100	A+	92	B+	81	C+	70	D+	59	F
99-94	A	91-83	B	80-72	C	69-61	D		
93	A-	82	B-	71	C-	60	D-		

(59.5 rounds up to a passing grade (D-))

VAN WERT HIGH SCHOOL EXAMINATION POLICY

1. ALL STUDENTS ARE REQUIRED TO TAKE AN EXAMINATION UNLESS:
 - A. The course does not offer one (Principal Excused)
 - B. The student has been granted permission to exempt through the Renaissance Program
2. STUDENTS WHO DO NOT SHOW UP FOR THEIR EXAMINATIONS WITH AN EXCUSED ABSENCE WILL:
 - A. Receive a "0" on the examination
 - B. Fail the entire course for that semester, even if the % is equivalent to a passing grade

Basis for grade: Because the student did not fulfill the course requirements - which includes showing up and taking the examination
3. STUDENTS WHO ARE ABSENT FROM AN EXAMINATION MUST:
 - A. Follow all Van Wert High School attendance policies and procedures, as adopted by the Board of Education
 - B. All make-up exams will occur according to the Van Wert High School attendance policies and procedures. Make up exams will not be completed before the regular examination schedule and will be arranged through the principal or counselor.
 - ◆ State law requires that a parent or guardian must call the school on the day of a student absence, preferably before 8:30 a.m. for morning absences or by 12:30 p.m. for afternoon absences. Van Wert High School appreciates telephone contacts by parents on the days that examinations are given.

INTERSCHOLASTIC ATHLETIC ELIGIBILITY

In accordance with the OHSAA, the Van Wert City Board of Education has adopted the following policy for students in grades 9-12. The following criteria must be met:

- ◆ Successfully complete a minimum of 5 one-half credit courses per semester (or the equivalency) which would count toward graduation;
- ◆ Receive no more than one failing grade in the previous 9 week grading period
- ◆ Earn a minimum 1.2 grade point average for the previous 9 week grading period based on a 4.0 grade scale

Summer school grades cannot be used to determine eligibility. The definition of athletic activities is a school sponsored student activity not included in the graded course of study that includes participants from more than one school or school setting. Incompletes are regarded as an "F" or failing grade until the student makes up his/her work so that an official letter grade can be given.

ADVANCED PLACEMENT COURSES & FEES

The Advanced Placement Program gives students the opportunity to complete college-level studies while still in high school. Participating colleges grant credit and/or appropriate placement to students who have done well on the AP Examinations which are administered in May. Van Wert High School offers 7 AP courses including AP Language, AP Literature, AP Calculus, AP Chemistry, AP Computer Science, AP Psychology and AP Government. There is a fee assessed for the Advanced Placement Tests which a student takes. The Van Wert City Board of Education pays for half of the fee for the required test. The amount that students were assessed for the 2016 tests was \$46.50 for each test taken.

COLLEGE CREDIT PLUS

The Ohio Department of Education, Ohio Board of Regents and the Ohio Legislature in conjunction with universities and community colleges in the state have worked together to create the College Credit Plus program. Through this program a student can earn college and high school credits at the same time by taking courses from community colleges or universities, through online programs or through courses offered at his/her high school.

CREDIT FLEXIBILITY

Credit Flexibility options are designed for students who demonstrate the ability, interest and maturity to accept personal responsibility for their learning in selected curricular areas. The purpose is to provide learners who identify their own learning objectives and implement a plan to attain those objectives outside of the traditional classroom. This plan is coordinated through the high school principal, guidance counselors and athletic director and requires an application process.

SUGGESTED FOUR (4) YEAR CURRICULUM

COLLEGE BOUND

Freshman

English 9/American History (Am Lit)
Algebra I/Physical Science (iCAP)
Biology
Geometry or Geometry A/B
Physical Education/Health
Foreign Language
Electives

Junior

English 11 CB or AP English 11
Chemistry or AP Chemistry
Pre-Calculus, Appl. Algebra II, Int. Math or Algebra II
Foreign Language III (opt.)
AP Psychology
Anatomy/Physiology
Electives

Sophomore

English 10/World History (World Lit)
Geometry A/B, Algebra II or Int. Math
Biology or Chemistry
Physical Education
Foreign Language II
Electives

Senior

English 12 CB or AP English 12
Chemistry II or AP Chemistry
Pre-Calculus, AP Calculus, Calc/Stat
or Senior Analysis
Foreign Language IV (opt.)
Government or AP Government
Physics
AP Psychology
Electives

VANTAGE CAREER CENTER CANDIDATES

Students interested in the Vantage Career Center are to pay particular attention to the subjects that need to be completed before entering.

Additional required courses for graduation will be taught at the Vantage Career Center in the areas of: English, US History, US Government, Mathematics, and Science.

If a student is deficient in more than three credits in the core areas listed below, he/she will not be eligible for admission.

This means that the following credits should be earned before enrolling in the Vantage Career Center:

English	2 credits
Health	1/2 credit
Physical Education	1/2 credit
Mathematics	2 credits
Science (To include: 1 credit in a Physical Science and 1 credit in a Biological Science)	2 credits
Social Studies.....	2 credits

SUGGESTED TWO (2) YEAR CURRICULUM VANTAGE INTENDING STUDENT

Freshman

English 9/American History (Am Lit)
Physical Science/Algebra I (iCAP)
 Or Geometry or Geometry A/B
Physical Education
Health
Electives in Interested Area

Sophomore

English/World History (World Lit)
Biology
Algebra II, Int. Math or Geometry A/B
Physical Education
Electives in Interested Area

PROGRAMS AT VANTAGE CAREER CENTER

INFORMATION TECHNOLOGY

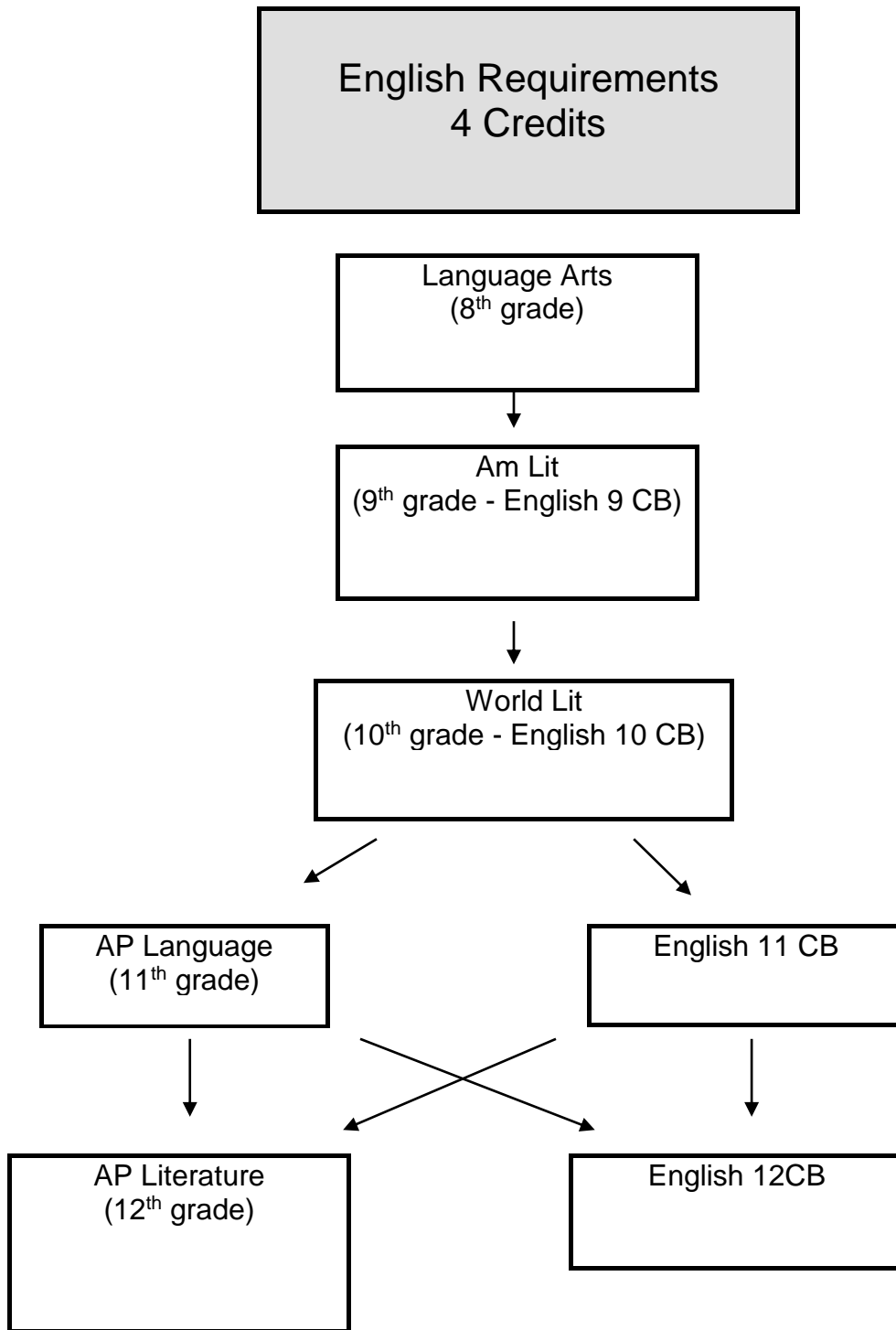
Interactive Media
Medical Office Management
Network Systems

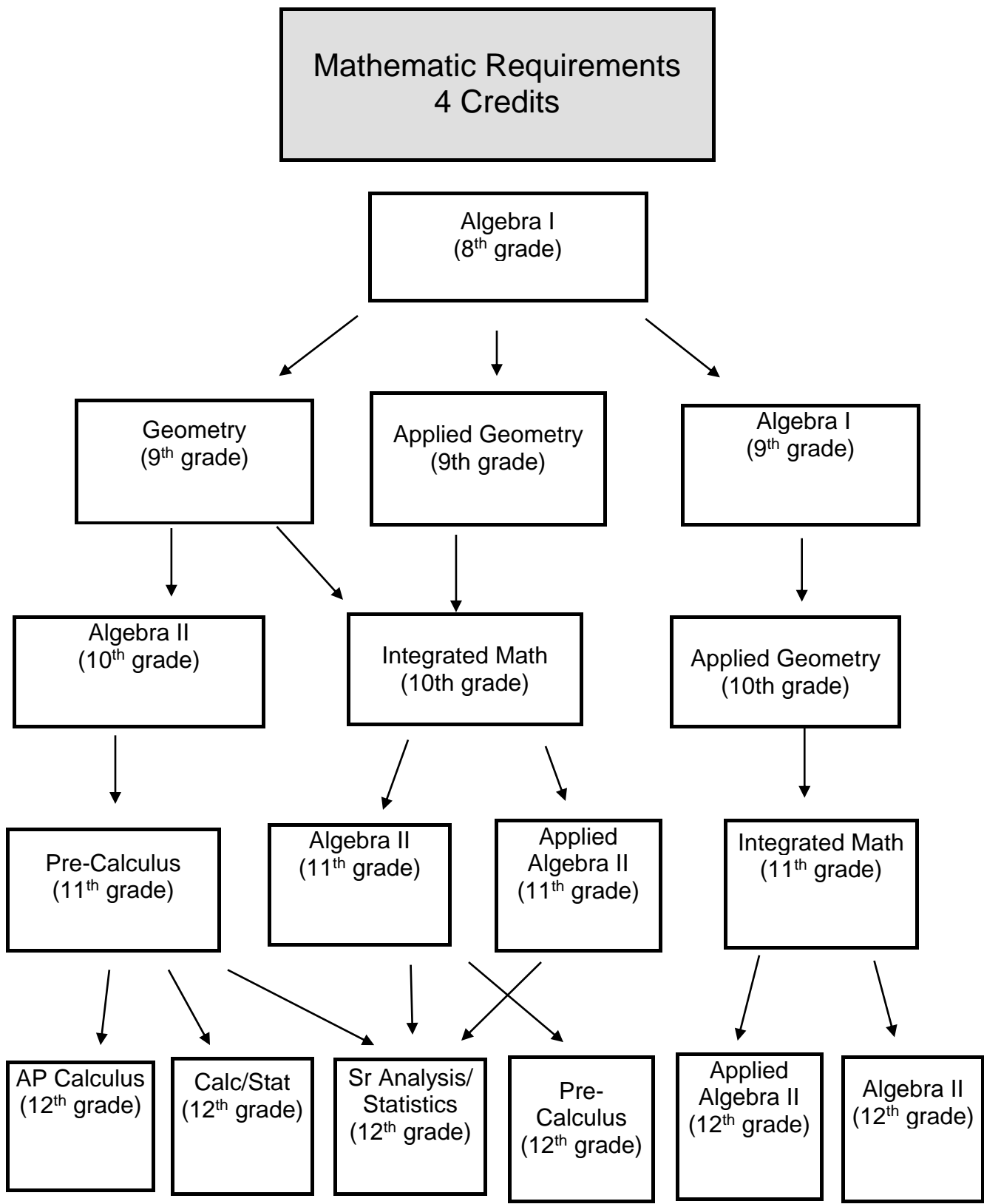
SERVICE OCCUPATIONS

Cosmetology
Criminal Justice
Culinary Arts
Early Childhood Education
Health Technology

TRADE & INDUSTRY

Ag & Industrial Power Technology
Auto Body Repair
Automotive Technology
Building and Ground Maintenance
Carpentry
Construction Equipment Technology
Electricity
Industrial Mechanics
Precision Machining Technology
Welding Fabrication Technology





Social Studies Requirements
3 Credits

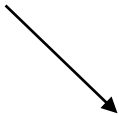
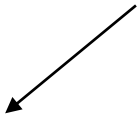
Am Lit
(9th grade- American History)



World Lit
(10th grade – World History)



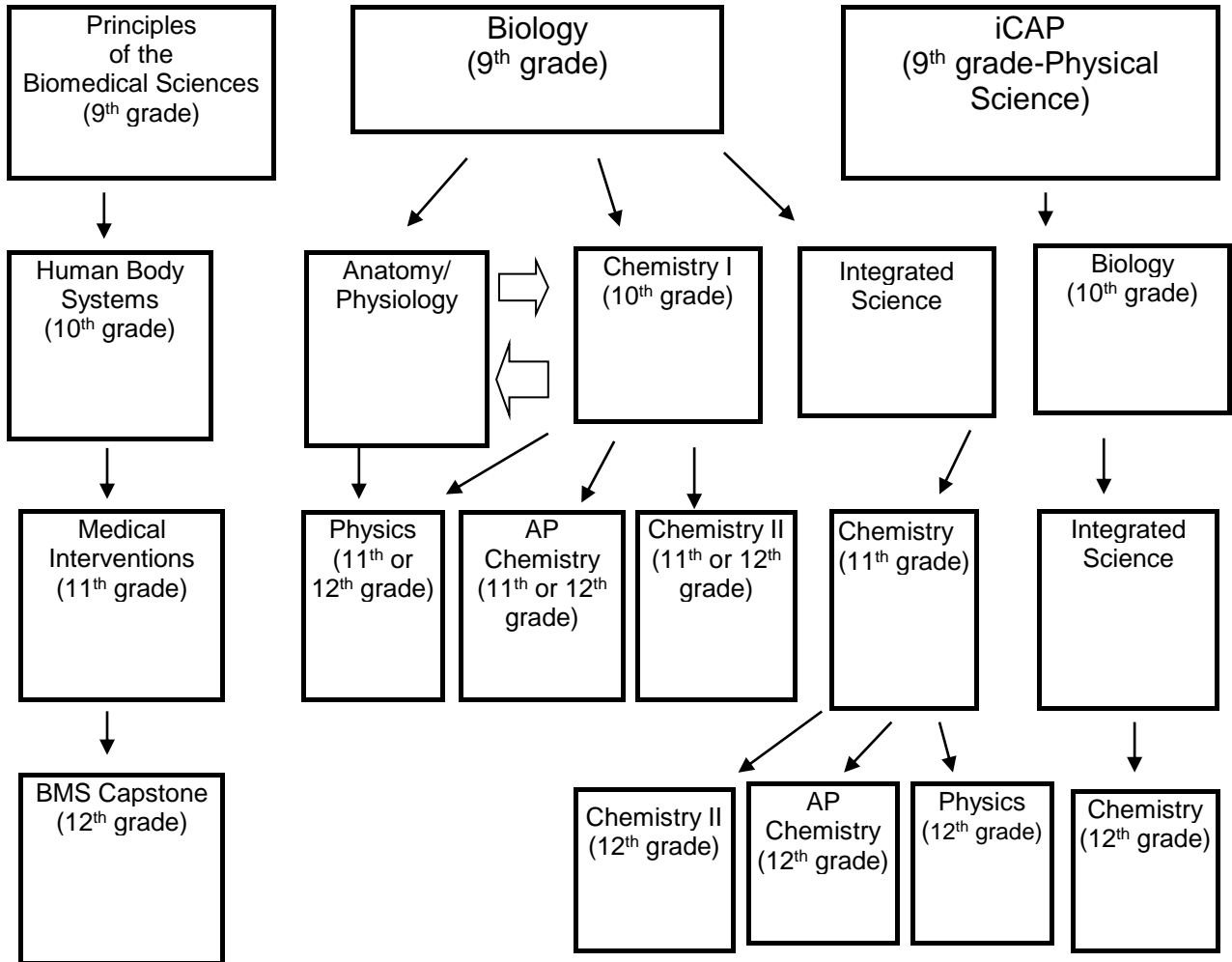
Social Studies Elective
Optional
(11th grade)



AP Government
(12th grade)

Government
(12th grade)

**Science Requirements
3 Credits**



RESOURCE

RESOURCE

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirements: Students must have a current individualized education plan (IEP) or 504 plan to be enrolled in this course.

Resource is designed to prepare students on IEPs or 504 plans with 21st Century Skills, the soft skills, such as promptness, organization, time management, assignment completion and social skills such as respect, responsibility and to specifically focus on the goals of the IEP. A rubric will be used to evaluate students on these skills. Many of these skills can and will be taught through the content of other courses. Resource skills will be taught through a variety of course content.

There is a possibility for students to earn credits in the Work Study program for students who work after school.

INTERNSHIP

CAREER EDUCATION OPPORTUNITY (CEO)

- ◆ Credit: 1/2
- ◆ Elective: 12
- ◆ Semester Course

The CEO program is offered to seniors as an elective course where students are released during the school day and partnered with either a teacher to provide educational experiences or local businesses which will provide internships, apprenticeships, or other business opportunities. Students have the opportunity to learn the skill sets that are necessary for a specific career and learn the soft skills necessary in the work force. Students will complete the course knowing the type of post-secondary education/training required in their career field.

ART

2-D LEVEL I

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12

- ◆ Requirement: Students must attend semester exams to pass this course.

- ◆ Course Fee \$38.00

Explorations in “flat surface” art works. Students will experiment with drawing, painting, collage, and print works. A sketchbook will need to be completed on a regular basis as well. Students will be required to creatively solve problems in art, as well as visually represent ideas.

2-D LEVEL II

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Prerequisite: 2-D Level I
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$38.00

An intermediate level “flat surface” art course. Students will be expected to represent more abstract ideas with their imagery. Craftsmanship will be stressed in this course.

2-D LEVEL III

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: 2-D Level I & II
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$38.00

An advanced level course in which students will improve upon previously learned skills in Level I and II. Students will have more freedom with projects and ideas. Independent projects will be stressed in this course.

2-D LEVEL IV

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: 2-D Level I, II & III
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$38.00

This is a mastery course in which students will work on projects with minimal teacher interaction. Students will work within a range of preferred materials which reflect their artistic strength. Fine tuning of skills and principles of design will be the focus of this course.

SCULPTURE I

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$38.00

This is a course for students who wish to complete “hands on” projects. Students will experiment with a variety of sculptural forms and materials. Materials may include, but are not limited to clay, wood, plaster, cardboard, paper, glass, and metals. Students will be expected to represent ideas through their imagery.

SCULPTURE II

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Prerequisite: Sculpture I
- ◆ Requirement: Students must attend semester exam to pass this course.
- ◆ Course Fee \$38.00

This is an intermediate Art course for students who wish to be hands on. Students will work on representing more abstract ideas through their sculptural works. Craftsmanship will be stressed.

SCULPTURE III

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Sculpture I & II
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$38.00

This is an advanced course in which students will demonstrate work and creative thought. Students will also demonstrate skills with a variety of tools and materials.

SCULPTURE IV

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Sculpture I, II & III
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$38.00

This is a mastery course in which students will work on projects with minimal teacher interaction. Students will work within a small range of materials which reflect their strengths. Fine tuning of these skills will be the focus of this course.

DIGITAL ART I

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$38.00

Students will experiment with photo manipulation tools similar to photoshop. Students will learn how to create original imagery from start to finish.

DIGITAL ART II

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Prerequisite: Digital I
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$38.00

Students will create imagery captured from their own photographs. Students will also learn to edit and format pictures for print. Students will also learn to create and design graphics and logos.

DIGITAL ART III

- ◆ Credit: 1/2
- ◆ Semester Course

- ◆ Elective: 11, 12
- ◆ Prerequisite: Digital Art I & II
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$38.00

Students will learn to create visually appealing compositions based on the elements of art, and principles of design. Students will gain basic skills of product advertisement.

DIGITAL ART IV

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Digital Art I, II & III
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$38.00

Students will be creating projects which mimic a work environment such as an advertising agency. Students will "compete" to sell the same products with the ads they design.

MUSIC

FRESHMEN CHORUS

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 9
- ◆ Requirement: Students must attend semester exams to pass this course.

This choir is open to VWHS freshmen who are interested in choral singing. Freshman choir is designed to be an introductory group where basic vocal training, music reading, and choral concepts are taught using a variety of choral literature. Some of the choir's activities include a Fall concert, a Christmas Concert, and a Spring Concert. "Ambitious and developing groups may attend OMEA Contest. Choir members also have the option of attending Solo and Ensemble Contest."

SOPHOMORE WOMEN'S CHORUS

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 10th grade females
- ◆ Requirement: Students must attend semester exams to pass this course.

Women's Choir consists of sophomore women progressing from the previous Freshman Choir. This group is designed to give special attention to the female voice. Women's Choir continues culturing vocal techniques, music reading skills, and choral concepts which were started in Freshman Choir. "Ambitious and developing groups may attend OMEA Contest. Choir members also have the option of attending Solo and Ensemble Contest." New members are welcomed and encouraged.

CONCERT CHOIR

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 10, 11, 12 (males) 11, 12 (females)
- ◆ Prerequisite: Students must have an A in Freshman or Sophomore choir or be required to audition
- ◆ Requirement: Students must attend semester exams to pass this course.

Only those students who can maintain the highest standards of musical excellence through choral performance and rehearsal will be permitted to hold membership in the Concert Choir. An above average level of commitment and cooperation during all rehearsals and performances is required. Membership is restricted to 10th, 11th, and 12th grade males and 11th and 12th grade females. Most members have graduated from Freshman and/or Women's Choir and through hard work and dedication have proven their ability to sing in Concert Choir. Other upperclassmen wanting to enter this choir must audition with the director. Students cannot add choir to their schedule at semester. Emphasis in Concert Choir is placed on greater mastery of performance skills and a varied repertoire of challenging music from all periods. Concert Choir activities include: Fall Concert, Christmas concert, Rotary Concert, OMEA contests, Formal Spring Concert, and various other events. Participation in Solo and ensemble Contest is optional.

BAND

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Prerequisite: Middle School Band or Audition
- ◆ Requirement: Students must attend semester exams to pass this course.

The band year begins with performances by the Marching Band in early June at the Van Wert Peony Parade and in early July with a performance at the Van Wert 4th of July Parade. Band Camp in late July/ early August is required of all students who wish to be a member of the band program.

Varsity football players are the only members excused from Band Camp. The Marching Band performs at all home and away Van Wert football games, and at selected out of town festivals, parades, and performances.

There are three Concert Bands in operation during the remainder of the year. Placement in these bands is determined by audition. Performance opportunities include: 3 formal concerts, student assemblies, District and State contest, Graduation, and select out of town performances. Band members are encouraged to participate in small ensembles or as soloists for OMEA Contest.

Basketball Band and Jazz Ensemble are formed from students within the Concert bands. Students are required to perform at 5 Varsity boys basketball games per year. Students who play guitar, bass guitar, and keyboard or drum set and are not members of the Concert Bands are encouraged to audition for the Jazz Ensemble.

Freshmen and sophomores who are interested in learning to play a band instrument, with membership in the VWHS band being a final goal, are encouraged to contact the Director of Bands for more information.

MUSIC THEORY

- ◆ Credit: 1/2
- ◆ Semester Course (First Semester)
- ◆ Elective: 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.

This course is a study of musical elements including note names, rhythms, scales, key signatures, chords, chord analyzation and composition. Some previous musical knowledge is preferred (band, choir, private lessons). This course is especially recommended for potential music majors.

MUSIC APPRECIATION

- ◆ Credit: 1/2
- ◆ Semester Course (Second Semester)
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.

The focus of this course is the use and value of music in people's lives. It encourages students to view music in a social context. Music will be presented as a natural and essential ingredient of one's own life and of life in all cultures. Music from all genres, cultures, and time periods will be included. This course is for all students, not just those who are in choir or band.

ELEMENTS OF THEATRICAL DESIGN

- ◆ Credit 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.

Elements of Theatrical Design is a semester long course that provides learners with a basic understanding of the aesthetics and practical application of all phases of technical production. The content should include, but not be limited to, the following: set design and construction, costume design, lighting design and application, theatre and stage management, artistic discipline, roles and careers, theatre history and literature, aesthetic response and assessment, safety procedures, and theatre terminology. Students will also learn the basics of standard conventions of design presentation and documentation; the organizational structure of theatre production and creative work in a collaborative environment; and the resulting artistic improvement.

FUNDAMENTALS OF PERFORMANCE

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.

Fundamentals of Performance is a semester long course that provides students with opportunities to develop and synthesize all of the elements of theatre into final production using various media, techniques, and processes. The content will include, but not be limited to, the following: acting, pantomime, improvisation, voice and diction, movement, artistic discipline, auditioning and casting, characterization, roles and careers, playwriting and analysis, theatre management, theatre terminology, aesthetic response and assessment, rehearsal procedures, and directing. Students explore and learn to analyze dramatic scripts, seeking production solutions through historical, cultural, and geographic research.

FAMILY & CONSUMER SCIENCE

GLOBAL FOOD

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee approximately \$25.

In this course, students will compare cuisines, ingredients and preferred cooking methods of various cultures. The influence of traditions and regional and cultural perspectives on food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market, and apply advanced cooking techniques, including the use of specialty and advanced equipment in the preparation of food dishes.

CULINARY FUNDAMENTALS

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee approximately \$25.

In this course, students will apply fundamental culinary techniques, such as knife handling skills and the recognition, selection and proper use of tools and equipment. An emphasis will be placed on *mise en place*, the management of time, ingredients and equipment as well as the basic principles of nutrition and wellness. Students will apply standard recipe conversions using proper scaling and measurement techniques in the preparation of a variety of foods incorporating nutrition basics.

CHILD DEVELOPMENT

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee approximately \$5.

In this course, students will study the principles of child growth, development and behavior. An emphasis will be placed on the cognitive development of a child and sensory and motor skills. Additional topics will include childhood diseases, immunization, theories of development, learning styles, evaluation childcare services, pregnancy and prenatal development.

INTERIOR DESIGN, FURNISHINGS AND MANAGEMENT

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee approximately \$10.

In this career field course, students will examine design principles used in residential interiors. An emphasis will be placed on incorporating anthropometrics, ergonomics and psychological responses in designing the interior spaces in a home. Additional topics will include the selection and organization of furnishing, floors and wall covering in living spaces, kitchens and baths.

TEXTILE DESIGN, CONSTRUCTION AND MAINTENANCE

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee Approximately \$15.

In this course, students will study the visual appearance of fabric and fashion design. Students will identify, analyze and apply production processes and techniques to textiles. Additional topics will include the maintenance and alterations of textile products, including home interior accessories and garments.

BUSINESS

PRINCIPLES OF BUSINESS

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.

This class is the basis for an understanding of economic principles and the free enterprise system and how these factors affect the individual in our society. Topics will include: the nature of American business, business and the consumer, a study of career opportunities, banking and banking services, and introduction to entrepreneurship. This course provides an introductory background for taking other business classes, but is not necessary to take other business classes. Implementation of a new innovative program in partnership with Central Mutual Insurance Company will enhance insurance knowledge and abilities of sustaining careers in the insurance field.

APPLIED BUSINESS

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.

Applied Business is designed to build on and expand principles and applications of Principles of Business. Similar topics will be discussed in greater detail; new topics will be included to expand and apply information obtained from Principles of Business. The following topics will also be included: Resume Writing, effective employee characteristics, interviewing skills and a mock interview will be conducted. Students will complete an employment project by preparing a career plan, preparation of a resume, cover letter and thank you note following the actual interview simulation. Students may have the opportunity for a job shadowing experience.

COMPUTER I

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.

Students will be instructed in using the Microsoft Office products; specifically Word, Excel and PowerPoint. This course will have an increased integration between the Internet, and other applications with proper computer usage enforced. Students will learn computer terminology and have a general understanding of how computers operate. Other topics include history of technology, new technologies and creating and presenting information using technology.

COMPUTER II

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Recommend: Computer I or permission of instructor
- ◆ Requirement: Students must attend semester exams to pass this course.

Students will continue learning the advanced functions of the Microsoft Office products. Creating and editing videos and pictures will also be covered. Other topics include history of technology, new technologies and creating and presenting information using technology.

WEB DESIGN I

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 10, 11, 12
- ◆ Prerequisite: Computer II or special permission of the instructor.
- ◆ Requirement: Students must attend semester exams to pass this course

Students will take a hands-on approach to learning the intricacies of web page design. The course will include instruction in HTML, digital photography, image capture, graphic editing, and E-journalism. In addition to creating pages for the Van Wert High School Website, students will have various long-term projects gathering and reporting on various aspects of the Van Wert community.

WEB DESIGN II

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 10, 11, 12
- ◆ Prerequisite: Web Design I
- ◆ Requirement: Students must attend semester exams to pass this course

Students will apply what they have learned in Web Design I and continue to build upon their Web design skills. They will also be involved with the overall design and navigation of the site, and implement changes in the design. Student webmasters will research and analyze national trends in web design, and serve a major role in developing and maintaining the VWHS Website design.

WEB DESIGN III

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Web Design I/II

- ◆ Requirement: Students must attend semester exams to pass this course.

Students will become a section editor and serve in a managing capacity. They will develop new categories for their section, assign responsibilities of Web Design I students, create deadlines for their section, give technical advice to Web Design I students, proofreading new postings, create editorial pages, and report/evaluate on the students in their section. They will continue to assist in implementing new design and structure changes to the VWHS website.

WEB DESIGN IV

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Web Design III
- ◆ Requirement: Students must attend semester exams to pass this course.

Students will continue as a section editor and learn about different sections of the VWHS website. They will create "mini-lessons" on assisting new Web Design students with technical and structural/design support. They will research and implement new technological advances concerning the Internet and Web Design software/devices.

COMPUTER PROGRAMMING I

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 10, 11, 12
- ◆ Prerequisite: Computer II or permission of instructor
- ◆ Requirement: Students must attend semester exams to pass this course

Students will learn fundamentals of Visual Basic; how to create forms and write code for events; and a full range of Visual Basic syntax necessary for constructing beginning-level applications. Fundamental concepts such as variables, expressions, data types, flow control, strings arrays and files will be covered. Students will learn all the concepts needed to write simple Visual Basic programs. Also, students will be able to explore additional computer topics.

PERSONAL FINANCE

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.

This course will deal with consumer buying problems, wages, commissions, and cost of credit, taxes and business problems of the retailer, wholesaler, and manufacturer of everyone's day-to-day living. Other topics discussed relate to consumer's interest involving installment loans, notes, mortgage loans, as well as home equity loans to help with money management. Students will also discuss the stock market. Students will have the advantage of having a banking representative present "real-life" banking experiences.

ACCOUNTING I

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Previous Year Course Fee: \$24.00

This first semester of accounting presents the instruction needed to provide an understanding of the first and most elemental accounting cycle for a service business and its affect on management policies, and accounting careers. Two major application activities bring all of the learned concepts together in a realistic manner to provide "hands-on" experience through actual manual bookkeeping completion.

Special Notes: Students will receive a workbook to apply accounting techniques learned in the textbook which is included in the student fee.

ACCOUNTING II

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 10, 11, 12
- ◆ Prerequisite: Accounting I
- ◆ Requirement: Students must attend semester exams to pass this course
- ◆ Previous Year Course Fee: \$24.00

The second semester of accounting rounds out the full year course for the students who developed an interest in accounting during first semester. This course also adds additional dimensions and further details on the students' understanding of the accounting process. The basic accounting cycle is expanded using special journals and a 10-column worksheet. Payroll and special procedures accounting are also learned. Again, two major application activities as well as one computer generated practice set provides real-life application. All problems will be reinforced through automated processes.

Special Notes: Students will receive a workbook to apply accounting techniques learned in the textbook which is included in the student fee.

ACCOUNTING III

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Accounting I and II
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Previous Year Course Fee: \$24.00

This class is aimed at students who plan to pursue a career in the business fields of accounting, banking, management, marketing, finance, etc. Concentration will be on uncollectible accounts receivable, depreciation methods, methods of inventory control, notes receivable and notes payable, and a voucher system of accounting. Computer applications will be included.

Special Notes: Students will receive a workbook to apply accounting techniques learned in the textbook which is included in the student fee.

ACCOUNTING IV

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Accounting I, II, and III
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Previous Year Course Fee: \$24.00

This class is aimed at students who plan to pursue a career in the business fields of accounting, banking, management, marketing, finance, etc. Concentration will be advanced accounting procedures for merchandising businesses, partnerships, and corporations. Computer applications will

be included. Students will compete in the Stock Market Game and a practice set will be completed.

Special Notes: Students will receive a workbook to apply accounting techniques learned in the textbook which is included in the student fee.

APPLIED ECONOMICS

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.

This course is a study of basic economic concepts and principles stressing the relationship of supply, demand, and free enterprise system. Other areas that are covered are economics as a social science; behavior of business firms with respect to competition and market conditions; the role of labor and government; role of financial institutions; national income accounting and statistics; comparative economic systems and international trade; and fundamental economic problems facing the world's nation. This program is sponsored in part by Junior Achievement. This class will compete with local schools in the JA Titan Tournament held during a one weeknight activity, perform a stock market simulation game, and attend a field trip to our Van Wert Central Mutual Insurance Company.

ENGLISH

AM LIT 9 (English 9 CB)

- ◆ Credit: 1
- ◆ Year Course
- ◆ Requirement: Students must attend semester exams to pass this course.

Combining English 9 CB and American History, this freshman level course spans over two class periods each day utilizing a project based learning approach. Focus will be on content and skills including school wide learning outcomes emphasizing the need for 21st Century skills. Students will have an in-depth study of American History from 1865 to the present, incorporating facts, concepts, ideals, and philosophies involved in the country's development. Language Arts skills will be incorporated with a focus on writing and various forms of literature including poetry, short stories, novels, drama, and primary source readings. Ohio New Learning Standards are at the root of all projects in which students will participate.

WORLD LIT 10 (English 10 CB)

- ◆ Credit: 1
- ◆ Year Course
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee: \$15. for classbook

Combining English 10 CB and Modern World History, this sophomore level course spans two class periods each day utilizing a project based learning approach. Focus will be on history content and language arts skills including school

wide learning outcomes, emphasizing the need for 21st Century skills. Students will combine a chronological approach with a detailed explanation of political, economical, social, and cultural developments from The Enlightenment to the present in all major parts of the world. Language Arts skills will be incorporated with a focus on writing and various forms of literature including poetry, short stories, novels, drama, and primary source readings. Ohio New Learning Standards are at the root of all projects in which students will participate.

ADVANCED PLACEMENT (AP) ENGLISH LANGUAGE & COMPOSITION

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 11
- ◆ Fee for text book and AP exam. Previous Year Course Fee: Approximately \$65. Refer to page 11 of section titled AP courses & fees.
- ◆ Requirement: A 3.0 minimum GPA (cumulative) in specific subject matter of English.
- ◆ 1st semester exam is required without exemption.
- ◆ Students will take the AP exam in May.

This is a very demanding course that tests the students' skills in analyzing the rhetoric of prose passages and asks students to demonstrate their skill in composition directly by writing essays in various rhetorical modes. During the research unit students are required to submit an eight to ten page paper, comparing and contrasting fiction to reality. Students also learn to evaluate passages in order to address analytical multiple choice questions. At the end of the year, AP students will take a College Board exam. All juniors will be required to complete an assigned number of service hours in the community to explore local resources. This class will be designed to address the above description and all Ohio state standards established for English curriculum.

ENGLISH 11 - COLLEGE BOUND

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 11
- ◆ Requirement: Students must attend semester exams to pass this course.

English 11-CB includes four English units: Grammar, Research, American Literature and Novel utilizing a project based learning approach. Together these units help the students facilitate their skills in language, organizing and compiling research data, and developing an appreciation of American Literature. Focus will be on content and skills including school wide learning outcomes emphasizing the need for 21st Century skills.

During the research unit the students are required to submit one research paper at a designated time in the course. Failure to complete the research paper will require the student to repeat that semester the following year.

All juniors will be required to complete an assigned number of service hours in the community to explore local resources. This class will be designed to address the above description and all Ohio New Learning Standards established for English curriculum.

Special Notes: Purchase of paperback books & workbooks may be required throughout the year.

ADVANCED PLACEMENT (AP) ENGLISH LITERATURE & COMPOSITION

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 12
- ◆ Fee for AP exam. Refer to page 11 of section titled AP courses & fees. Previous Year Course Fee: \$54.00
- ◆ Requirement: A 3.0 minimum GPA (cumulative) in specific subject matter of English.
- ◆ 1st semester exam is required without exemption.
- ◆ Students will take the AP exam in May.

This is a very demanding course that tests the students reading of selected poems and passages and requires students to write essays on critical analysis as a measure of their ability to read and interpret literature and to use other forms of discourse effectively. Students will complete a senior project which develops a focus on community services. This class will be designed to address the above description and all Ohio state standards established for English curriculum.

ENGLISH 12 - COLLEGE BOUND

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee: \$2.00 for binders

Utilizing a project-based learning approach, the college-bound Senior English course studies literary masters of English literature as well as the mythology of ancient Greece, emphasizing the development of critical reading and thinking. Oral interpretation in the form of class discussion and informal speeches will also be required. Composition skills will also be refined by developing grammatical proficiency and variety in sentence structure. Students will analyze and duplicate professional models of syntax to make their own style more deliberate and effective. Writing will also be enhanced with the development of a mature vocabulary. Exposition, narration, and description are the three forms of writing practiced as well as college application essays. Students will complete a senior project which develops a focus on community services. This class will be designed to address the above description and all Ohio state standards established for English curriculum.

SPEECH I & CONTEST SPEAKING

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exam to pass this course.

This course is designed for the basic public speaking curriculum. Speeches include: informative, demonstrative, persuasive and impromptu. This is a performance-based experience for students desiring further training in public speaking skills. The focus of the course is on debate although basic speaking situations not offered in other courses are also an integral part of this class. Students may participate in simulated meetings using parliamentary procedures. Students will participate in community sponsored speech contests.

TELEVISION PRODUCTION I

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course

This program is designed as a one-semester experience for students who are interested in basic television production. This class can be offered to pupils in grades 10-12 who have passed English 9 with at least a "C" average. Emphasis will be placed on script writing, basic equipment operation, and small scale production. Requirements for this class are: willingness to speak in front of a group, the ability to work with others, and an interest in learning to write clear, concise scripts. First semester projects include: the television commercial, informative videos, silent movie, interview shows and more. An online blog will be used to document experiences throughout the project planning process.

TELEVISION PRODUCTION II

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 10, 11, 12
- ◆ Prerequisite: Successful completion of Television Production I or with instructor approval
- ◆ Requirement: Students must attend semester exams to pass this course.

This class is designed to be an extension of skills learned in the previous course. It will further knowledge of technical equipment. Students will learn advanced editing and filmmaking skills. More extensive programming will be produced with some being aired on the local cable network. Basic writing and speaking skills and a willingness to use your imagination are imperative for this class.

TELEVISION PRODUCTION III

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Television Production I and II and teacher recommendation
- ◆ Requirement: Students must attend semester exams to pass this course.

This class will be offered to a maximum of 16 students who have met the necessary requirements. One of the purposes of this class will be to produce Van Wert High School News and Sports, a news program for cable TV. Furthermore, students will be responsible for teacher initiated video projects. Students will rotate in all of the positions of the Television production crew. Oral communications as well as technical production will be stressed. Television Production III will be founded on the concept that students learn by doing.

TELEVISION PRODUCTION IV

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Successful completion of Television Production I, II, and III
- ◆ Requirement: Students must attend semester exams to pass this course.

This course will be offered to a maximum of 16 students who have completed all of the introductory television

classes. Students will share the responsibility of producing VWHS News and Sports with TV III classes. Students in TV IV will also direct an original mini movie. They will create commercial spots, become more proficient in camera use, master the skills of post production editing, and work with classmates during all program phases. Students will become an active part of instructor-initiated video productions which promote the school and community.

CREATIVE WRITING

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exam to pass this course.

Creative writing, a course open to all students who are interested in writing imaginatively, focuses upon the individual and his/her skills in both prose and poetry. Daily classroom activities offer the student a chance to improve and enhance these skills. To provide a background in content, ideas, and styles, students will study the works of professional writers and poets. From this evaluation of great works and styles, students will learn to evaluate their own writing. Students will submit quarterly and semester portfolios of various genres.

YEARBOOK

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 10, 11, 12
- ◆ Requirement: Must attend semester exam to pass this course.
- ◆ Students will purchase a SD (Scan Disk) card for this course

Yearbook offers students a chance to contribute, create, and assemble the Excalibur, VWHS' yearbook. This course offers multiple skills in book production, including layout design, copy writing, photography, advertising, and financial management. Positions are available in layout, photography, and advertising. Much of the actual work will be done in class; however, students will be expected to work after school and during evenings for deadlines and special projects.

Special Note: Purchase of your own SD card.

JOURNALISM I

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: Grade 9, 10, and 11 (12 with instructor approval)
- ◆ Requirement: Must attend semester exam to pass this course.

This is an introductory course intended to give students a background in a variety of journalism media. The main emphasis is on developing, reporting, and writing skills in preparation for a staff position on The Cougar's Roar. This comprehensive course will cover mass media, news reporting, editing, lead writing, interviewing, and communication skills, sports, review, editorial, and feature writing, layout and design, student freedom of press rights, journalistic responsibility, and computer work including desktop publishing. Class activity will be a combination of lecture and laboratory work with emphasis on independent thinking and student creativity.

JOURNALISM II

- ◆ Credit: 1
 - ◆ Year Course
 - ◆ Elective: 10, 11, 12
 - ◆ Requirements: Journalism I or permission from teacher.
 - ◆ A grade of at least a B in Journalism I
- This class provides a laboratory experience for selected sophomores, juniors, and seniors. Students will serve as staff members for the Cougar's Roar. Staff positions include reporters, photographers, page designers, and possible editors on journalism publications. Acceptances of responsibility and desire to contribute to journalism publications are necessary individual assets. A knowledge and acceptance of good journalistic standards are also a necessity. Planned activities include producing a magazine, calendar, reporting and representing publications at events relating to the school and community, and publication of the online magazine The Cougar's Roar.

JOURNALISM III & IV

- ◆ Credit: 1
 - ◆ Year Course
 - ◆ Elective: 11 & 12
 - ◆ Requirements: Journalism I or permission from teacher.
 - ◆ A grade of at least a B in Journalism II
- This class provides a laboratory experience for selected sophomores, juniors, and seniors. Students will serve as staff members for the Cougar's Roar. Staff positions include reporters, photographers, page designers, and possible editors on journalism publications. Acceptances of responsibility and desire to contribute to journalism publications are necessary individual assets. A knowledge and acceptance of good journalistic standards are also a necessity. Planned activities include producing a magazine, calendar, reporting and representing publications at events relating to the school and community, and publication of the online magazine The Cougar's Roar. Articles and layouts will be submitted to national competitions.

PHYSICAL EDUCATION/ HEALTH

PHYSICAL EDUCATION

- ◆ Credit: 1/4 per semester
 - ◆ Semester Course
 - ◆ Required: 9, 10
 - ◆ Requirement: Students must attend semester exams to pass this course.
 - ◆ Course Fee - \$10.
 - ◆ Students may only repeat this class in back to back semesters with the teacher's approval.
- This course provides challenging and developmental activities for students to achieve skills, knowledge and good overall fitness. Fitness testing is part of this course. A variety of activities including badminton, basketball,

pickleball, tennis, bowling, softball, and volleyball are included in this course, with emphasis on leisure time recreational activities. Students will also cover a PBL unit covering biomechanical analysis on grade level skills (break down of a movement skill and apply knowledge for self improvement). Special emphasis is placed on improving student's physical fitness levels.
Special Notes: Class Fee is \$10.00 and covers the cost of bowling.

PHYSICAL EDUCATION – STRENGTH TRAINING

- ◆ Credit: 1/4 per semester
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ May use this class to fulfill PE 9-10 credit
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Students may only repeat this class in back to back semesters with the teacher's approval.

This course is designed to enhance one's muscular strength and endurance as it relates to athletic performance. Special emphasis on weight training as well as flexibility, agility, and speed development. Activities centered around the core lifts but will also include agility drills, stretching and plyometric (jump training) drills.

PHYSICAL EDUCATION – LIFE FITNESS

- ◆ Credit: 1/4 per semester
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ May use this class to fulfill PE 9-10 credit
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Students may only repeat this class in back to back semesters with the teacher's approval.

A course designed to improve all areas of physical fitness with an emphasis on learning how to maintain one's health throughout a lifetime. Particular attention will be given to cardiovascular endurance, flexibility, muscular strength, muscular endurance, core stability, proper nutrition, and weight management. Activities will include but not be limited to: walking, jogging, aerobics, yoga, stretch band exercises, strength training, and plyometric ball exercises.

HEALTH

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Required: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee: \$5.00

A course designed to educate students with a general understanding of physical, mental, social and emotional wellness. This course places emphasis on understanding substance and chemical abuse, first aid and CPR, sexuality and reproduction, sexually transmitted disease, mental health and other current health issues. Special emphasis is placed on decision making and preventative health practices.
Special Note: Class fee of \$5.00 covers expenses related to CPR.

FOREIGN LANGUAGE

GERMAN I

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Prerequisite: Recommended C average in all work
- ◆ Requirement: Students must attend semester exams to pass this course.

NewTech German I welcomes students with a German family background or who simply wish to learn the language of Europe's #1 political and trading partner. PBL units begin with a Skype project, whereby students learn to communicate live (with a student at our partner school in Sassenburg, Germany). Additional projects include: *Der Brief* (writing a letter to our Skype partners); *Der Ausflug* ("The Excursion" – a field trip to German Village, where we will hold a table conversation in German...and eat!); *Das Video* (creating a green-screen, life-sized "bobble head" sequel to a well-known film, such as *Frozen - "Die Eiskönigin"*) and *das Spiel* (creating a course review game). There is an emphasis on building spoken and written communication. We use both print and on-line textbooks and web resources.

GERMAN II

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 10, 11, 12
- ◆ Prerequisite: German I
- ◆ Requirement: Students must attend semester exams to pass this course.

German II picks up where level I left off. PBL units include: *Das Jeopardy-Spiel* (fall review); *Das Buch* ("The Book" – writing pop-up books for elementary students); *fröhliche Weihnachten* (Christmas traditions); *das Erntedankfest* (Thanksgiving: cooking, and an essay); *berühmte Leute, Kaffee und Kuchen* (famous people, coffee & cake); *Walpurgisnacht* (based on the Germanic "spring Halloween"); *Denkmalschüler* ("Monument Kids" - writing and creating grown-up coloring pages about iconic Germanic castles and structures). Language structures introduced include: conversational and narrative past verb forms; command forms; subordinating conjunctions; prepositions with case; indirect object and dative case; reflexive verbs. The emphasis continues to be active, relevant communication.

GERMAN III

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: German I and II
- ◆ Requirement: Students must attend semester exams to pass this course.

NewTech German III anticipates such PBL topics as: *der blaue Reiter* ("The Blue Rider" - expressionist painting); *der Lip-Dub Austausch* (a lip-dub exchange with students in Sassenburg, Germany); *Fun, Lola, Fun!* (creating a "lost scene" for a classic German action/comedy); *Industrie und Umwelt* (industry and environment, with a field trip to GROB corporation and Bluffton University); *Poesie ist*

Cool! (reading and interpreting German poetry, and, yes, writing our own!); and perhaps *eine SMS schicken* (social media). Integral structures at the German III level include: subordinating conjunctions; two-case prepositions; genitive case; past perfect. IAKTs are increasingly *auf Deutsch* as an emphasis on spoken and written communication continues, building on level II in a logical, stair-step fashion.

GERMAN IV

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: German I, II and III
- ◆ Requirement: Students must attend semester exams to pass this course.

German IV themes may touch upon traditional literary genres from the medieval to the present (sample PBL unit: create and publish a modern youtube of the *Hildebrandslied*), the second world war (reading a teen's diary from Hessen and writing one of our own), Grimm's tales (create and act *Grimm 2018!*), the historical GDR (comparing/contrasting our own national divisions - *auf Deutsch*), or other topics of students' and teacher's choice. Using Sparks and Vail's *German in Review*, grammatical structures include: subjunctive II and subjunctive I; infinitive constructions; verb-preposition combinations; relative clauses.

SPANISH I

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Prerequisite: Recommend at least a C average in all work
- ◆ Requirement: Students must attend semester exams to pass this course.

Students are introduced to the four language skills of listening, speaking, reading, and writing. Spanish is spoken in the classroom to introduce and practice oral patterns. There are regular vocabulary and grammar quizzes. Writing includes sentence/question formation, short conversational dialogues, and narrative paragraphs. Reading comprehension progresses from recognition to inference. Chapter tests require listening, speaking, reading, and writing skills. Cultural information about the Spanish-speaking world is presented. Freshmen students will be given priority in order to complete 4 years of the language.

SPANISH II

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 10, 11, 12
- ◆ Prerequisite: Spanish I or demonstrated proficiency on the placement test for Spanish 2 and approval of teacher.
- ◆ Requirement: Students must attend semester exams to pass this course.

Students continue to develop listening, speaking, reading, and writing skills. The content of Spanish I is practiced in new contexts while the student learns new structures. Homework is assigned regularly. Spanish is spoken by the teacher to introduce vocabulary and to review grammar points. The teacher and students use Spanish to accomplish the daily routine and to practice oral patterns. There are regular grammar and vocabulary quizzes. Writing includes sentence/question formation, dialogues, and paragraphs. Short passages continue the development of reading skills. Chapter tests require students to perform in

all four skill areas. The culture of Spanish-speaking countries is studied throughout the year.

SPANISH III

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Spanish II
- ◆ Requirement: Students must attend semester exams to pass this course.

Speaking, listening, reading and writing activities incorporate previously learned material as well as new grammar and vocabulary. Spanish is the primary language of the classroom. There is emphasis on the oral and written expression of ideas. Aspects of the culture of Mexico, Central America, the Caribbean, and South America will be explored.

SPANISH IV

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Spanish III
- ◆ Requirement: Students must attend semester exams to pass this course.

Reading, writing, speaking, and listening skills will be further developed through readings that discuss the culture and history of Spanish-speaking countries. The use of technology will be used to develop these skills. Spanish is the primary language spoken in the class. A review of all major tenses and grammar points will be covered to prepare those students who are entering college. Students are held accountable for note-taking, oral discussions (in Spanish), written examinations, and oral presentations.

MATH

iCAP (INTEGRATED CONCEPTS OF ALGEBRA I AND PHYSICAL SCIENCE)

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 9
- ◆ Requirement: Students must attend semester exams to pass this course.

Combining Algebra 1 and Physical Science, this freshman level course spans over two class periods each day utilizing a project based learning approach. Math topics covered will include problem-solving skills, linear functions, solving and graphing techniques, factoring techniques, quadratic functions, rational functions and probability. Science concepts will include scientific method, experimental design, data collection and analysis, motion and forces, atomic theory and structure, nuclear chemistry, chemical bonding and reactions.

Special Note: TI 30X IIS recommended or better needed for class.

INTEGRATED MATH

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 10, 11
- ◆ Requirement: Students must attend semester exams to pass this course.

Integrated Math is an intermediate step between Geometry and Algebra 2. Conceptual standards include are Dimensional Analysis and Conversion, Solving Equations for Unknown Variables, Sampling Methods of Data Collection, Graphing and Analyzing Data, Functions, Trigonometry, Trigonometric Functions, Exponent Properties, Geometry, Solving Equations (1 Step, 2 Step, and Multi-Step); Solving Systems of Equations, and Quadratic Equations.

APPLIED GEOMETRY

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 9, 10
- ◆ Prerequisite: Applied Algebra A/B or Algebra I
- ◆ Requirement: Students must attend semester exams to pass this course
- ◆ Course Fee \$3.00

This course is intended for the student who needs to take the geometry curriculum at a slower pace. Topics covered include building blocks of geometry, tools of geometry, line and angle properties, triangle and polygon properties, circles area, volume and the Pythagorean Theorem. This course will cover the first 10 chapters of the Geometry text. **Special Note:** TI 30X IIS recommended or better. Compass and protractor provided through class fees.

GEOMETRY

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 9, 10, 11
- ◆ Prerequisite: Algebra I
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$3.00

Topics include inductive reasoning, geometric constructions, area, volume, congruence, similarity, trigonometry, and proof.

Special Note: TI 30X IIS recommended or better. Compass and protractor provided through class fees.

APPLIED ALGEBRA II

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Applied Algebra A/B, Algebra I, Applied Geometry, Geometry, Integrated Math
- ◆ Requirement: Students must attend semester exams to pass this course.

This course is designed for the junior or senior who needs to take Algebra II curriculum at a slower pace. Topics covered include building blocks of Algebra II, equations, inequalities, matrices, probability, statistics, functions, factoring, exponents, logarithms, quadratics, and complex numbers.

Special Note: OGT calculators or better needed for this class.

ALGEBRA II

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 10, 11, 12
- ◆ Prerequisite: Algebra I and Geometry
- ◆ Requirement: Students must attend semester exams to pass this course.

Algebra II is an in-depth study of Algebra topics including equations, inequalities, matrices, probability, statistics, functions, complex factoring, exponents, logarithms, quadratics, variation, analytic geometry, complex numbers, sequence and series.

Special Note: TI83 graphing calculator recommended

SENIOR ANALYSIS

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 12
- ◆ Prerequisite: Algebra II
- ◆ Requirement: Students must attend semester exams to pass this course.

A problem based math course for seniors. The first quarter includes concepts and applications of graphing in various contexts. Real life applications will be emphasized in a problem-based learning environment. The second quarter focuses on the mathematical elements of personal finance and concludes with a culminating finance project.

Special Note: TI83 or better graphing calculator recommended

PRE-CALCULUS

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 11, 12
- ◆ Prerequisite: Algebra II & Geometry
- ◆ Requirement: Students must attend semester exams to pass this course.

The objective of this course is to advance Algebra II one step further into the area of coordinate systems, conic sections, polar coordinates, polynomial functions, trigonometry, probability, and elementary calculus. This course is designed to prepare students for Calculus.

Special Note: TI83 graphing calculator recommended

CALCULUS

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 12
- ◆ Prerequisite: Pre-Calculus
- ◆ Requirement: Students must attend semester exams to pass this course.

This semester long class is designed for the college-intending student. Topics to be covered are a review of precalculus, limits, derivatives, and applications of differentiation. Special Note: TI83 or better graphing calculator recommended

STATISTICS

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 12
- ◆ Prerequisite: Algebra II
- ◆ Requirement: Students must attend semester exams to pass this course.

This class will be a statistics curriculum. Topics will

include central tendency, dispersion and skewness, probability, normal distribution, the Central Limit Theorem, hypothesis testing, correlation and regression analysis.

Special Note: TI 30X IIS recommended

ADVANCED PLACEMENT (AP) CALCULUS

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 12
- ◆ Prerequisite: Pre-Calculus
- ◆ Fee for AP exam. Refer to page 11 of section titled AP courses & fees. Previous Year Course Fee: \$46.50
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ 1st semester exam is required without exemption.
- ◆ Requirement: A 3.0 minimum GPA (cumulative) in specific subject matter of Math. Students must attend semester exams to pass this course.

The objective of this course is to learn the basic properties of calculus (limits, derivatives, integration, and trigonometric, exponential, and logarithmic functions). Applications are made in the fields of physics, engineering and economics. Students will take the AP Calculus exam in May.

Special Note: TI 83 or better graphing calculator recommended

SOCIAL STUDIES

AM LIT 9 (American History)

- ◆ Credit: 1
- ◆ Year Course
- ◆ Requirement: Students must attend semester exams to pass this course.

Combining English 9 and American History, this freshman level course spans over two class periods each day utilizing a project based learning approach including group work. Focus will be on content and skills including school wide learning outcomes emphasizing the need for 21st Century skills. Students will have an in-depth study of American History from 1877 to the present, incorporating facts, concepts, ideals, and philosophies involved in the country's development. Language Arts skills will be incorporated with a focus on writing and various forms of literature including poetry, short stories, novels, drama, and primary source readings. State Standards are at the root of all projects in which students will participate.

WORLD LIT 10 (World History)

- ◆ Credit: 1
- ◆ Year Course
- ◆ Requirement: Students must attend semester exams to pass this course.

Combining English 10 and Modern World History, this sophomore level course spans over two class periods each day utilizing a project based learning approach including

group work. Focus will be on history content and language arts skills including school wide learning outcomes, emphasizing the need for 21st Century skills. Students will combine a chronological approach with a detailed explanation of political, economical, social, and cultural developments from major world events from the 17th Century to the 21st Century. Language Arts skills will be incorporated with a focus on writing and various forms of literature including poetry, short stories, novels, drama, and primary source readings. Ohio's New Learning Standards and The Ohio Model Curriculum are the driving force of all projects in which students will participate.

CURRENT EVENTS

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 11 & 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Minimal cost of magazine subscription

THIS COURSE IS OFFERED BOTH SEMESTERS.

A student can be enrolled in this course one time. Areas of study: Current issues of the world and using various news media - such as T.V., CNN News, Newsweek, U.S. News and World Report, Time and U.S.A. Today.

IMPLEMENTING YOUR RIGHTS - MOCK TRIAL

- ◆ Credit: 1/2 offered first semester
- ◆ Semester Course
- ◆ Elective: 9, 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ **THIS COURSE IS OFFERED FIRST SEMESTER ONLY.**

This course is offered to give students a deeper understanding of the Bill of Rights. The course focuses on the history behind, and the creation of, the Bill of Rights, as well as, various events and Supreme Court cases that have tested its limitations.

This course will focus on the implementation of basic constitutional rights through the process of Mock Trial. Students will be expected to compete in the district Mock Trial Competition. This will involve taking on the role of a witness or an attorney and demonstrating an understanding of the trial process through these roles. If you like Mock Trial, this course is for you!

CONTEMPORARY AMERICAN HISTORY & WORLD ISSUES

- ◆ Credit: ½ offered second semester
- ◆ Semester Course
- ◆ Elective: 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.

THIS COURSE IS OFFERED SECOND SEMESTER ONLY. The study of American History from 1945 to the present. The course will stress the development of U. S. Foreign and domestic policy that created modern American society. Historical films and documentaries will be used extensively to enhance the textbook, lectures and readings.

SOCIOLOGY

- ◆ Credit: 1/2
- ◆ Semester Course

- ◆ Elective: 10, 11, 12
- ◆ Requirement: Students must attend semester exams to pass this course.

The study of the fundamental principles of human social behavior with a focus on individual and group behavior. Such topics as marriage and family, crime, racial conflicts, death and dying, generation gap, and socio-economic differences will be covered. To help students realize that the purpose of studying social problems is not to define them, nor even to simply understand them, but to be able to seek and evaluate possible solutions to solving them as a community, state, and nation.

ADVANCED PLACEMENT (AP) PSYCHOLOGY

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 11 & 12
- ◆ Fee for AP exam. Refer to page 11 of section titled AP courses & fees. Previous Year Course Fee: \$46.50
- ◆ 3.0 GPA in English and Science subject matter
- ◆ Students must attend semester exams to pass this course.
- ◆ 1st semester exam is required without exemption.
- ◆ Students will take the AP exam in May.

This course is the in-depth study of human behavior. Topics addressed include but are not limited to: the anatomy of psychology, memory, emotion, abnormal behavior, intelligence and therapies. Designed to prepare the student for the Advanced Placement Psychology National Exam in May. Test score could result in being awarded college credit. This course is suggested for students who are interested in the areas of psychology, education, or any other service oriented profession.
Special Note: Summer reading is also a requirement.

PSYCHOLOGY

- ◆ Credit: 1/2
- ◆ Semester Course
- ◆ Elective: 10, 11, 12
- ◆ Students must attend semester exams to pass this course.

This course is the study of human behavior. Topics addressed include but are not limited to: the anatomy of psychology, memory, emotion, abnormal behavior, intelligence and therapies. Course designed to prepare students for an introductory college course in Psychology.
Special Note: Students enrolled in Psychology course are not permitted to take AP Psychology.

AMERICAN GOVERNMENT

- ◆ Credit: 1
- ◆ Year Course
- ◆ Required: 12
- ◆ Requirement: Students must attend semester exams to pass this course.

An in-depth study of American government at the Federal, State and Local levels. An emphasis on the philosophy our governmental system is based on and the practical application of this philosophy. Extra readings will be used to accomplish this goal. Practical application of how the student can become involved in our political system will also be included.

ADVANCED PLACEMENT (AP) GOVERNMENT

- ◆ Credit: 1
- ◆ Year Course
- ◆ Required: 12
- ◆ Fee for AP exam. Refer to page 11 of section titled AP courses & fees. Previous Year Course Fee: \$46.50
- ◆ Requirement: A 3.0 minimum GPA (cumulative) in specific subject matter of Social Studies.
- ◆ 1st semester exam is required without exemption.
- ◆ Students must attend semester exams to pass this course.

This is a very demanding course that will cover the following major content areas: constitutional underpinnings of democracy; political beliefs and behaviors of individuals; political parties and interest groups, mechanisms that facilitate the communication of interest and preferences by like minded citizens; the congress, the presidency, the bureaucracy, and the federal courts; institutions and policy processes; and civil liberties and civil rights. Students will take the AP exam in May.

SCIENCE

PROJECT LEAD THE WAY PATHWAY TO ENGINEERING (Courses are taken cumulatively)

INTRODUCTION TO ENGINEERING DESIGN

- ◆ Credit: 1
- ◆ Elective 9, 10, 11, 12
- ◆ Year Course
- ◆ Recommendation from 8th grade math teacher and Guidance Counselor
- ◆ Requirement: Students must attend semester exams to pass this course.

This course teaches problem solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer design software. Projects include the puzzle cube design and reverse engineering project. Other topics covered include advanced modeling skills, advanced designs, functional and structural analysis, and other open-ended design problems.

PRINCIPLES OF ENGINEERING

- ◆ Credit: 1
- ◆ Elective: 10, 11, 12
- ◆ Year Course
- ◆ Prerequisite: Introduction to Engineering Design
- ◆ Requirement: Students must attend semester exams to pass this course.

This course helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math,

science, and technology in an engineering problem solving process to benefit people. Other topics covered include thermodynamics, fluid systems, electrical systems, control systems, statics and strengths of materials, material testing, engineering reliability, and kinematics.

DIGITAL ELECTRONICS

- ◆ Credit: 1
- ◆ Elective: 11, 12
- ◆ Year Course
- ◆ Prerequisite: none required
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Previous Year Course Fee: \$15.00

This Project Lead the Way course will provide students with a solid foundation in Digital Electronics. Students will learn the basic properties of electricity and electronic circuitry. Students will design, simulate and construct actual electronic devices. Instructional topics will include fundamentals of electricity, Boolean algebra, circuit design, microprocessors and digital electronics application.

ENGINEERING DESIGN AND DEVELOPMENT

- ◆ Credit: 1
- ◆ Elective: 12
- ◆ Year Course
- ◆ Prerequisite: Intro to Engineering
- ◆ Requirement: Students must attend semester exams to pass this course.

Engineering Design and Development is a research course that requires students to formulate the solution to an open-ended engineering question. With a community mentor and skills gained in their previous courses, students create written reports on their applications, defend the reports, and submit them to a panel of outside reviewers at the end of the school year.

PROJECT LEAD THE WAY – BIOMEDICAL (Courses are taken cumulatively)

PRINCIPLES OF THE BIOMEDICAL SCIENCES

- ◆ Credit: 1
- ◆ Elective 9, 10, 11, 12
- ◆ Year Course
- ◆ Recommendation from 8th grade math teacher and Guidance Counselor
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Previous Year Course Fee: \$25.00

Students explore the concepts of human medicine and are introduced to research processes and to bioinformatics. Hands-on projects enable students to investigate human body systems and various health conditions, including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases.

Over the length of the course, students work together to determine the factors that led to the death of a fictional person. After pinpointing those factors, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life.

The course is designed to provide an overview of all the courses in the Biomedical Sciences Program and to lay the scientific foundation necessary for student success in the subsequent courses. The key biological concepts

embedded in the curriculum include homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Where appropriate, engineering principles are also incorporated into the curriculum. These include the design process, feedback loops, fluid dynamics, and the relationship of structure to function.

HUMAN BODY SYSTEMS

- ◆ Credit: 1
- ◆ Elective: 10, 11, 12
- ◆ Year Course
- ◆ Prerequisite: Principles of the Biomedical Sciences
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$25.00

Students examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health.

Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include designing experiments, investigating the structures and functions of body systems, and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation.

Important concepts covered in the course are communication, transport of substances, locomotion, metabolic processes, defense, and protection.

MEDICAL INTERVENTIONS

- ◆ Credit: 1
- ◆ Elective: 11, 12
- ◆ Year Course
- ◆ Prerequisite: Human Body Systems
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$25.00

Students projects investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care.

The course explores the design and development of various medical interventions, including vascular stents, cochlear implants, and prosthetic limbs. In addition, students review the history of organ transplants and gene therapy, and stay updated on cutting-edge developments via current scientific literature.

Using 3D imaging, data acquisition software, and current scientific research, students design a product that can be used as a medical intervention.

BMS CAPSTONE

- ◆ Credit: 1
- ◆ Elective: 12
- ◆ Year Course
- ◆ Prerequisite: Medical Interventions
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee \$25.00

Students will design and conduct experiments related to the diagnosis, treatment, and prevention of disease or illness. They will apply their knowledge and skills to answer questions or solve problems related to biomedical science.

This course may be combined with the capstone course from the engineering pathway, allowing students from both pathways to work together to engineer a new health care-related product or process innovation.

iCAP (INTEGRATED CONCEPTS OF ALGEBRA I AND PHYSICAL SCIENCE)

- ◆ Credit: 1
- ◆ Year Course
- ◆ Elective: 9
- ◆ Requirement: Students must attend semester exams to pass this course.

Combining Algebra 1 and Physical Science, this freshman level course spans over two class periods each day utilizing a project based learning approach. Math topics covered will include problem-solving skills, linear functions, solving and graphing techniques, factoring techniques, quadratic functions, rational functions and probability. Science concepts will include scientific method, experimental design, data collection and analysis, motion and forces, atomic theory and structure, nuclear chemistry, chemical bonding and reactions.

Special Note: OGT Calculators or better needed for class.

BIOLOGY

- ◆ Credit: 1
- ◆ Elective: 9, 10, 11, 12
- ◆ Year Course
- ◆ Prerequisite for sophomores: Successfully completed Algebra I and currently enrolled in Geometry.
- ◆ Prerequisite for freshman: Students must have had an A average for their 8th grade science (subject to change). In order to be scheduled for Biology, students must also be scheduled for Geometry.
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee: \$15.00 – needs Styrofoam square and a plastic container with lid to put the Styrofoam in.

Biology is a course, which satisfies the Ohio New Learning Standard science graduation requirements. This class is a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. The Biology learning standards will be covered using Project Based Learning in the New Tech Model.

ANATOMY/PHYSIOLOGY

- ◆ Credit: 1
- ◆ Elective: 11, 12

- ◆ Year Course
- ◆ Prerequisite: Biology (with B or better average)
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Previous Year Course Fee: \$20.00

This is a one year course designed for the college intending student. The anatomy and physiology portion will delve deeply into external and internal systems of the cat. These will be compared and contrasted to human systems. This course is geared toward those students interested in pursuing a medical career and therefore emphasizes the acquisition of medical terminology/vocabulary as well as an introduction to selected medical careers.

INTRODUCTION TO CHEMISTRY AND PHYSICS

- ◆ Credit: 1
- ◆ Elective: 10, 11
- ◆ Year Course
- ◆ Requirement: Students must attend semester exams to pass this course.

This course will explore concepts of Chemistry and Physics above the level instructed in iCAP but below the level offered in Chemistry and Physics. This is a math based science course. Data will be collected through steps of the Scientific Method to be analyzed. Identifying functions and graphic analysis will be required. Major Physics concepts will include Newton's Laws of Motion, Forms of Energy, Energy Transfer, Forces and the Relation to Motion, Waves, and the Electromagnetic Spectrum. Chemistry concepts will include Atomic Theory, Atomic Structure, Particle Characteristics of Atoms, Chemical Bonding and Bond Angles, Chemical and Physical Properties, Classification of Matter, Chemical and Nuclear Reactions, Stoichiometry, Percent Composition, Percent Yield, Limiting Reactants, and Electron Configuration. There will be opportunities to complete interdisciplinary activities with the Integrated Math Course.

CHEMISTRY

- ◆ Credit: 1
- ◆ Elective: 10, 11, 12
- ◆ Year Course
- ◆ Prerequisite: C or better in all work. Concurrent enrollment in Algebra II. Requirement: Students must attend semester exams to pass this course.
- ◆ Previous Year Course Fee: \$20.00

This is a general chemistry course that gives the student a broad background in all the basic concepts of chemistry including, but not limited to, the metric system, matter, atomic structure, quantum mechanics, periodic table, chemical bonding, formulas, balancing equations, stoichiometry, gas laws, solutions, acids and bases, and redox. A strong emphasis will be placed on lab work, demonstrations and hands-on learning. Students will be required to complete lab reports throughout the course.

CHEMISTRY II

- ◆ Credit: 1
- ◆ Elective: 11, 12
- ◆ Year Course
- ◆ Prerequisite: At least B average in Chemistry I (or permission of the instructor) and academic excellence in other class work
- ◆ Recommended: Strong math background

- ◆ Requirement: Students must attend semester exams to pass this course.

- ◆ Previous Year Course Fee: \$25.00

This course is strongly recommended for those students planning on taking chemistry in college, and studies in greater depth the topics covered in first-year chemistry. Some of the topics covered include nuclear, electrochemistry, chemical bonding, reaction rates, solutions, equilibria, acids and bases, gas laws, periodicity, thermodynamics, and qualitative analysis. A strong emphasis will be placed on lab work, demonstrations and hands-on learning. Students will be required to complete lab reports throughout the course.

ADVANCED PLACEMENT (AP) CHEMISTRY

- ◆ Credit: 1
- ◆ Elective: 11, 12
- ◆ Year Course
- ◆ Fee for AP exam. Refer to page 11 of section titled AP courses & fees. Previous Year Course Fee: \$81.00
- ◆ Prerequisite: A minimum 3.0 GPA (cumulative) in specific subject matter of Science, Chemistry I with a "B" average or better in EACH quarter of Chemistry I.
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ 1st semester exam is required without exemption.

This is a college course taught at the high school for students who want to attempt to test out of their first year of college chemistry. It is fast-paced, and should only be considered by students who have a serious interest in chemistry as well as an excellent background in mathematics.

This course will study, in depth, the areas of matter, atomic structure, nomenclature, periodicity, chemical bonding, molecular structure, chemical reactions, stoichiometry, gas laws, solutions, acids and bases, kinetics, equilibria, thermodynamics, entropy, electrochemistry, descriptive chemistry, nuclear chemistry, and qualitative analysis. Students will take the AP exam in May. Students will be required to complete lab reports throughout the course.

PHYSICS

- ◆ Credit: 1
- ◆ Elective: 11, 12
- ◆ Year Course
- ◆ Prerequisite: Recommended – Algebra I, Algebra II, Geometry (A-B average or higher in math and science)
- ◆ Requirement: Students must attend semester exams to pass this course.
- ◆ Course Fee: \$10.00

A fundamental introduction to the field of physics. Periods are devoted to class and laboratory work. In the classroom, theoretical and mathematical consideration of natural laws and the relationship of matter and energy, force and motion, electricity, light, and sound. Laboratory activities are used to reinforce the theoretical concepts and how they may be used to predict the behavior of matter. Students will be required to complete lab reports throughout the course.

Career Connection

EXAMPLES OF CAREERS RELATED TO ACADEMIC SUBJECT AREAS

English

2 year or 4 year degree

Actor
Dramatist (Playwright)
Legal Assistant/Paralegal
Library Technician
Movie/TV Director
Radio/TV Announcer
Newscaster
Writer/Author

4 year or higher degree

Advertising Copywriter
College/University Faculty
Editor
Educational Administrator
Historian
Lawyer
Librarian
Public Relations Specialist
Reporter/Journalist
Speech-Language Pathologist
Teacher
Technical Writer

Social Studies

2 year or 4 year degree

Human Resources Worker
Legal Assistant/Paralegal
Park Ranger

4 year or higher degree

Anthropologist
College/University Faculty
Counselor (School/College)
Criminologist
Economist
Educational Administrator
FBI Agent
Foreign Service Officer
Geographer
Gerontologist
Historian
Human Resources Manager
Lawyer
Librarian
Lobbyist
Market Research Analyst
Parole Officer
Political Scientist
Private Detective/Investigator
Psychologist, Clinical
Recreation Leader
Reporter/Journalist
Social Worker
Sociologist
Teacher
Travel Guide
Urban Planner

Foreign Language

2 year or 4 year degree

Flight Attendant
Interpreter
Nurse

Police Officer
Singer
Travel Agent
Travel Guide
Welfare Eligibility Worker
4 year or higher degree
Archivist/Curator
College/University Faculty
Editor
FBI Agent
Foreign Service Officer
Foreign Trade Clerk
Public Relations Specialist
Social Worker
Teacher
Technical Writer

Math

2 year or 4 year degree

Bank Branch Manager
Building/Construction Inspector
Financial Services Sales Rep
Food Service Manager
Hotel/Motel Manager
Loan Officer/Counselor
Real Estate Agent
Retail Store Manager
Tool & Die Maker
Travel Agent
Web Site Developer

4 year or higher degree

Account Executive
Accountant
Air Traffic Controller
Architect
Astronaut
Buyer
College/University Faculty
Computer Network Specialist
Computer Programmer
Computer Systems Analyst
Electrical/Electronics Engineer
Human Resources Manager
Industrial Designer
Insurance Claims Representative
Insurance Risk Manager
Market Research Analyst
Mathematician
Meteorologist
Oceanographer
Physicist
Sales/Marketing Manager
Tax Accountant
Teacher

Natural Sciences

2 year or 4 year degree

Aircraft Technician
Broadcast Technician
Dental Hygienist
Funeral Director
Nuclear Medicine Technologist
Nurse

Radiographer
Respiratory Therapist
4 year or higher degree

Animal Scientist
Astronomer
Athletic Trainer
Biochemist
Biologist
Botanist
Chemist
Civil Engineer
College/University Faculty
Dentist
Dietitian/Nutritionist
Ecologist
Fist & Game Warden
Food & Drug Inspector
Forester
Geologist
Horticulturist
Medical Records Administrator
Medical Technologist
Meteorologist
Occupational Therapist
Oceanographer
Optometrist
Pharmacologist
Physical Therapist
Physician
Physicist
Physiologist
Psychiatrist
Speech-Language Pathologist
Teacher
Veterinarian
Zoologist

Fine Arts

2 year or 4 year degree

Actor
Artist
Cartoonist
Composer
Dancer/Choreographer
Dramatist (Playwright)
Fashion Designer
Floral Designer
Graphic Artist (Software)
Illustrator
Interior Designer
Jeweler
Movie/TV Director
Musician
Photographer
Singer
Video/Film Editor
Web Site Developer
4 year or higher degree
Advertising Manager
Architect
Cinematographer
College/University Faculty
Landscape Architect

FOUR YEAR ACADEMIC PLAN Required Courses

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR	
Course	Credit	Course	Credit	Course	Credit	Course	Credit
English 9 (Am Lit)	1	English 10 (World Lit)	1	English 11 CB	1	English 12 CB	1
Algebra I (iCAP)	1	Math	1	Math	1	Government	1
Am. Hist (Am Lit)	1	World Hist (World Lit)	1	Science	1	Math	1
Science (iCAP)	1	Science	1				
Phys. Ed.	1/4	Phys. Ed.	1/4				
Health	1/2						

Students are required to have a minimum of 6 classes. For electives refer to your class graduation requirements.

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR	
Courses	Credits	Courses	Credits	Courses	Credits	Courses	Credits
Am Lit (English/ Am Hist)		World Lit (English/ World Hist)		English 11 CB		English 12 CB	
iCAP (Algebra I/ Science)		Math		Math		Government	
PE		Science		Science		Math	
Health		PE					
Total		Total		Total		Total	

Notes:

Interests:	Careers:
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