



# ROSEVILLE HIGH SCHOOL



## 2024-2025 COURSE CATALOG



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# ROSEVILLE COMMUNITY SCHOOLS \

## NON-DISCRIMINATION POLICY

### Statement of Policy

It is the policy of the Roseville Community School District that no discriminatory practices based on gender/sex, race, religion, color, age, national origin, disability, height, weight, or any other status covered by federal, state or local law be allowed in providing instructional opportunities, programs, services, job placement assistance, employment or in policies governing student conduct and attendance.

### Grievance Procedure

Section 1: Any person believing that the Roseville Community School District, or any part of the school organization, has discriminated on the basis of race, color, national origin, gender/sex, age, disability, height, weight or marital status, may file a grievance with:

Civil Rights Coordinator  
Administration Building  
18975 Church Street  
Roseville, Michigan 48066  
586-445-5513

Grievance forms are available from any building principal or from the Administration Building.

Section 2: All grievances will be processed through the following steps:

- A. A written statement of the grievance, using the district's grievance form, shall be submitted to the Civil Rights Coordinator.
- B. Upon receipt of the completed grievance form, the Coordinator will conduct an investigation and notify grievant of the results, including any remedial measures. Normally, the investigation will be concluded within (30) thirty school days.
- C. Within (10) ten school days, the grievant may appeal, in writing, to the Superintendent of Schools, who will make a written decision, normally within (30) school days.

The complete grievance procedure is found in Roseville Community Schools Board Policy GAAD, which can be obtained from the Coordinator.

# GRADUATION REQUIREMENTS FOR CURRENT 10th, 11th, and 12th Grade STUDENTS

Students enrolled at RHS have the opportunity to earn 24 credits over four years.

High school graduation requires the successful completion of 22 credits. Transfer students are subject to credit review.

Students must maintain a six-hour schedule during grades 9-12. Exception: Students who are enrolled in a co-op program, dual enrollment, Early College and other such programs may enroll in less than six hours with principal or designee approval.

A student transferring into the Roseville School system during his senior year must have completed at least two full semesters before that student is granted a diploma. Exceptions to this policy will be reviewed by the high school principal. Transfer students need to complete a "Credit Adjustment Worksheet."

## **CURRENT 10th, 11th, and 12th Grade STUDENTS**

English Language Arts (ELA) .....	4.0 credits
Mathematics.....	3.0 credits
Math or Math Related .....	1.0 credits
Science .....	3.0 credits
Social Studies.....	3.5 credits
Health/Physical Education .....	1.0 credits
Visual/Performing/Applied Arts .....	1.0 credits
World Languages* .....	2.0 credits
Electives* .....	<u>3.5 credits</u>
Total .....	22.0 credits

\*If a student has not met the World Language requirements in K-8, they must take two (2) credits of World Language during their High School years. Students may substitute one (1) credit of World language with a CTE or Visual/Performing Arts course. Economics can be substituted with Personal Economics.

\*All students are required to complete an online course or learning experience K-12.

Students who are unable to perform at grade level in math or reading may be placed in support classes as electives.

# GRADUATION REQUIREMENTS FOR STUDENTS ENTERING THE 9<sup>TH</sup> GRADE IN 2024 AND BEYOND

Students enrolled at RHS have the opportunity to earn 24 credits over four years.

High school graduation requires the successful completion of 22 credits. Transfer students are subject to credit review.

Students must maintain a six-hour schedule during grades 9-12. Exception: Students who are enrolled in a co-op program, dual enrollment, Early College and other such programs may enroll in less than six hours with principal or designee approval.

A student transferring into the Roseville School system during his senior year must have completed at least two full semesters before that student is granted a diploma. Exceptions to this policy will be reviewed by the high school principal. Transfer students need to complete a “Credit Adjustment Worksheet.”

## **STUDENTS ENTERING THE 9<sup>TH</sup> GRADE IN 2024 AND BEYOND**

English Language Arts (ELA) .....	4.0 credits
Mathematics .....	3.0 credits
Math or Math Related .....	1.0 credits
Science .....	3.0 credits
Social Studies.....	3.5 credits
Health/Physical Education .....	1.0 credits
Visual/Performing/Applied Arts .....	1.0 credits
World Languages* .....	2.0 credits
Electives* .....	<u>3.5 credits</u>
Total .....	22.0 credits

\*If a student has not met the World Language requirements in K-8, they must take two (2) credits of World Language during their High School years. Students may substitute one (1) credit of World language with a CTE or Visual/Performing Arts course.

\*All students are required to complete an online course or learning experience K-12.

\*All students entering high school starting in the fall of 2024 must meet the State of Michigan financial literacy course work requirement in 11th or 12th grade.

Students who are unable to perform at grade level in math or reading may be placed in support classes as electives.

Successful Completion of the Following:

**ENGLISH**

**Requirements – 4.0 credits**

English 9 (1.0 credit)

English 11 (1.0 credit)

English 10 (1.0 credit)

English 12 (1.0 credit)

Advanced Placement English or Journalism II classes may be substituted for required English Language Arts credits in 11th and/or 12th grade.

No other modifications allowed by the State of Michigan.

**MATHEMATICS**

**Requirements – 4.0 credits**

Algebra I (1.0 credit)

Geometry (1.0 credit)

Algebra II (1.0 credit)

Math or Math Related (1.0 credit)

Students must enroll in one (1) math class each term in grades 9 – 11.

One math or math related course\* must be completed in senior year.

Modification is allowed upon completion of .5 credit of Algebra II.

<b>*Approved Math</b>	
AP Calculus	Probability & Statistics
Calculus	Pre-Calculus
Math Support	Workforce Math

<b>*Approved Math Related</b>	
Accounting & Financial Systems I	Mechatronics I
Accounting & Financial Systems II	Personal Economics
Astronomy	Physics or AP Physics
Chemistry or AP Chemistry	Vocational Auto Tech
Coding with BOTS	Vocational Building Trade
Excel/Access	Vocational Machine Shop
Hospitality Management	Welding & Metal Fabrication
Marketing I	
Marketing II	

## SCIENCE

**Requirements – 3.0 credits**

Biology (1.0 credit)                      Additional Science Class (1.0 credit)  
Chemistry, Physics, or Physical Science Interactions (1.0 credit)

No modification allowed by the State of Michigan.

## SOCIAL STUDIES

**Requirements – 3.5 credits**

U.S. History/Geography (1.0 credit)                      Civics (.5 credit)  
World History/Geography (1.0 credit)  
Economics (.5 credit) or Personal Economics (.5 credit)  
Personal Finance (.5 credit) starting with class of 2028

- No modification of Civics Class.
- Modifications allowed only if student takes an additional credit beyond required credits in English Language Arts, Math, Science or World Language. Students with modifications must earn a minimum of 2.0 Social Studies credits.
- Advanced Placement Government fulfills Civics requirement.
- Advanced Placement U.S. History fulfills U.S. History/Geography requirement.
- Advanced Placement Human Geography may replace the World History course.

## HEALTH AND PHYSICAL EDUCATION

**Requirements—1.0 credit**

Physical Education I: Health & Basic Aquatics (.5 credit) or  
Health & Wellness (.5 credit)  
Physical Education II: Introduction to Sports & Fitness (.5 credit)

Students must take Physical Education I: Health & Basic Aquatics or Health & Wellness. Students cannot take both.

Modification allowed only for Physical Education II if student meets one of the criteria listed below (***and fills out the required waiver form***):

Student participates in two consecutive years of High School Marching Band.  
or  
Student plays two consecutive years of the same school sponsored athletic sport.



## WORLD LANGUAGE

**Requirements—2.0 credit**

Students must complete a World Language experience during their K-12 schooling. Here are a few examples of how a student might meet this expectation:

- Take elementary World Language at any level.
- Take Spanish I and II or French I and II in middle school or high school.
- In addition, students may substitute one credit of World Language with one credit of CTE or Visual Performing Arts.

Students's records must show they met requirement(s) at a previous school.

## VISUAL/PERFORMING/APPLIED ARTS

**Requirements – 1.0 credit**

Classes that fulfill this requirement are listed below:

Advanced Auto Technology I or II	Advanced Building Trades I, II or III
Advanced Machine Trades I or II	Advanced Woodworking I or II
Applied Technology	Auditorium/Theater Tech
Band-Cadet, Symphonic or Varsity	Basic Photography
Beginning Drawing, Painting or 3D Art	Career & Technical Education Externships
Ceramics	Choir or Symphonic Choir
Debate & Persuasion	Drawing-Intermediate or Advanced
Guitar	Hospitality Management I, II or III
Introduction to Drones	Journalism I or II
Jewelry Design or Advanced Jewelry Design	Music Exploration I
Mechatronics I	Painting-Intermediate or Advanced
News and Broadcasting I or II	Pre-Vocational Construction Careers
Pre-Vocational Auto Technology	Pre-Vocational Machine Trades
Pre-Vocational Hospitality Management	Speech
Senior Art Seminar	Theatre I, II or III
Stage/Jazz Ensemble	Welding
Web Design I or II	

**Students may opt out of this requirement by taking an additional credit beyond required credits in English Language Arts, Math, Science, or World Languages.**

Courses that meet one period per day are worth .5 credits per semester.

Courses that meet two periods per day are worth 1.0 credit per semester.

Refer to course catalog for length of each course.

## **COMMUNITY SERVICE**

**(Max 1.0 credit)**

Approval must be obtained from the principal and parent **before** community service hours begin.

Community Service gives students an opportunity to develop personal responsibility, interpersonal skills and exposure to possible careers, as well as providing help to others.

A maximum of one (1.0) credits can be earned towards high school graduation through community service. Students must secure their own service position. Service must be done as a volunteer; it cannot be a paid position. The student must work a minimum of 50 hours of service to earn one-half (.5) credit. Community Service forms are available in the counseling office.

## **ONLINE EXPERIENCE**

All students are required to complete an Online Course or learning experience (grades 7-12), i.e., Schoology use

No modification allowed by the State of Michigan.

Note: If the student does not complete his or her on-line course, or fails the course, then RCS will not fund future on-line courses.

Online courses require pre approval from the principal.

## **DUAL ENROLLMENT**

Students are allowed to attend courses at local colleges or universities while attending their own high school. This is called “dual enrollment”.

The State School Aid Act contains a provision that directs school districts to assist students in paying tuition and fees for courses at Michigan public or private colleges or universities, if all of the following conditions are met:

1. Selections must meet the approval of the principal.
2. The college courses must be academic courses (as opposed to “activity courses”).
3. A student may only dual enroll for courses not offered at Roseville High School, or where there is a scheduling conflict.
4. Roseville Community Schools will count the college course as high school credit. The school will not include the course grade in the student’s GPA. Each individual college will determine if they will count the course as college credit.
5. Dual Enrollment courses are limited based on State Requirements.
6. Students must meet the Roseville Community Schools’ assessment requirements.

School districts are required to pay the lesser of (a) the actual charge for tuition and fees; or (b) the students’ state school aid foundation allowance, adjusted to the proportion of the school year they attend the district. Students are no longer eligible when all high school graduation requirements have been met.

## **EARLY COLLEGE OF MACOMB PROGRAM**

Up to four (4) students per year may qualify to enroll as Early College students at Macomb Community College. Students that meet the following standards may apply during their 10th grade year. Qualified students will be entered into a random drawing for the four enrollments.

- G.P.A. of 3.25 or better at time of application
- Excellent attendance – 7 absences or less (each semester) for 9th and 10th grade

This program requires students to attend a partial day at Roseville High School and a partial day at Macomb Community College. There is no cost to the student for tuition, fees or books. Students must have the maturity and ability to handle college-level curriculum in an independent manner. Transportation is not provided.

Students commit to a five (5) year high school enrollment that will meet the requirements for both a high school diploma and an Associate's Degree. Students will not receive their diploma until the end of the five (5) years.

## **CRITERIA FOR SCHEDULING**

In cases of limited seating for a class, the following criteria will be used to determine enrollment.

- Successful completion of pre-requisite class
- Full course enrollment – 2 semester requests will be taken before 1 semester
- Grade level
  - Advanced Level: 12<sup>th</sup>, 11<sup>th</sup>, 10<sup>th</sup>, 9<sup>th</sup>
  - Basic Level: Seniors (12<sup>th</sup>) will not have preference over underclassmen
- Total credits earned
- Grade in prerequisite class
- Level of responsibility and work ethic demonstrated in prerequisite class, i.e. number of days missed

## **SUMMER SCHOOL/ADULT EDUCATION/CREDIT RECOVERY**

Credit may be earned in an approved summer school, adult education, or credit recovery program. Current students must seek prior approval from the principal or his designee to enroll for any out of district programs.

A maximum of (1) credit per year (2 classes completed) may be earned. Exceptions could be made by the principal. See counselor for online class opportunities.

All credit recovery during school year will cost \$150 per 1/2 credit course and will cost \$200 per 1/2 credit course during summer-school.

## TESTING OUT

The Roseville Board of Education recognizes the need to provide alternative means by which students can complete the graduation requirements prescribed by the state and Roseville Community Schools.

Any high school student who wishes to test out of a Michigan Merit core curriculum course in which he is not currently enrolled/attending may do so by taking the test out exam for the course and receiving a grade of at least C+. The grade on the assessment will not be used to determine a student's GPA. Credit for a course earned by a student through this process may be used to fulfill a course or course sequence requirement, and may be counted toward the required number of credits needed for graduation.

## SECONDARY GRADING FOR GRADES 9-12

Roseville High School, Credit Recovery Classes and Summer School.

Credit Recovery or Summer School will restore credit, not replace the failing grade in a class.

Only letter grades will be used to record and compute final grades. (Teachers who choose to use percentage grades for their own record keeping must convert them to letter grades for the grade book.) Letter grades will be averaged using a 13 point scale.

A+ = 13	B+ = 10	C+ = 7	D+ = 4	F = 0
A = 12	B = 9	C = 6	D = 3	
A- = 11	B- = 8	C- = 5	D- = 2	

Letter grades are used for all grade assignments. Tracking (i.e. homework assignments) must be keyed and converted to a letter grade.

<b>The final grade is computed as follows:</b>	<b>Percentage</b>	<b>Grade</b>	<b>Example</b>
Semester Work	80%	F	$X .80 = 0$
Semester Exam	20%	B-	$8 \times .20 = 1.6$
Semester Grade	100%	D-	1.6

### **EXAM EXEMPT CLASSES Semester Coursework = 100%**

A final grade is based upon the semester coursework and the final exam, if applicable. In order to receive credit for the class, you must pass the semester for a class with no exam, or have a passing grade after the exam (20%) and semester (80%) are averaged.

When computing grades, round up for decimals .5 or higher; round down for decimals .4 or lower. Teachers are required to modify grades and/or expectations/assignments as described by 504 plans, personal curriculums, or IEP's for special education students.

## HONOR POINT SYSTEM

An additional honor point may be earned by taking one of these courses and receiving a grade of B- or better:

### Mathematics

Pre-Calculus  
Calculus  
Advanced Placement Calculus AB

### Foreign Language

French IV  
Spanish IV

### Social Studies

Advanced Placement U. S. Government  
Advanced Placement U. S. History  
Advanced Placement Psychology  
Advanced Placement Human Geography

### Science

Advanced Placement Biology  
Advanced Placement Chemistry  
Advanced Placement Physics

### English

Advanced Placement English Composition  
Advanced Placement English Literature

The point/grade system for these classes would be:

	<u>Letter Grade/Points Now</u>	<u>Changed To</u>
A+	- 13	14
A	- 12	13
A-	- 11	12
B+	- 10	11
B	- 9	10
B-	- 8	9

## GRADE LEVEL STATUS:

Is based on credits accumulated through September of the current school year.

**9<sup>th</sup> Grade - First Year of High School**

**10<sup>th</sup> Grade - Second Year of High School + minimum 5 credits earned or equivalent**

**11<sup>th</sup> Grade - Third Year of High School + 11 credits earned or equivalent**

**12<sup>th</sup> Grade - Fourth Year of High School + 17 credits earned or equivalent**

\*Students who are unable to meet Michigan Graduation Requirements within four years will be classified as 5th Year Seniors.

\*\*Students must be less than 20 years of age as of September 1 of the school year and cannot have achieved a high school diploma or high school equivalency credential to be enrolled.

Students are encouraged to work with their counselor on this matter.

**Above is based on a 6.0 credit schedule per year. Transfer students will be addressed in a proportional manner.**

# CAREER & TECHNICAL EDUCATION

## APPLIED VOCATIONAL TECHNOLOGY

**Course Number: 7101**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12

Applied Technology is a survey of various technologies used in today's society. This class will give the student an opportunity to study a diverse range of technologies and how they relate to "real world" application. The majority of class work will focus on developing the student's knowledge of problem solving, using hands-on projects and group activities. Some computer simulation may be used to enhance the student's comprehension of the subject.

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## PRE-VOCATIONAL AUTO TECHNOLOGY

**A Course Number: 7111**

**B Course Number: 7112**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11

**Course A:** The first semester covers shop and personal safety, tools and shop equipment, Preparing a vehicle for service, workplace employability skills, work habits and ethics, basic engine repair and basic heating, ventilation and air conditioning (HVAC).

**Course B:** The second semester covers transportation distribution and logistics, electrical systems, automatic transmission and trans axle maintenance and manual transmission and trans axle maintenance.

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## PRE-VOCATIONAL CONSTRUCTION CAREERS

**A Course Number: 7143**

**B Course Number: 7144**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11

**Course A/B:** Students will be introduced to many facets of constructions careers in both woodworking and building trades. The class will emphasize general safety practices, as well as safe use of hand and power tools for both construction-oriented and fine woodworking projects. Concepts covered will include advanced joinery, furniture building, blueprint planning, home-construction oriented projects, and learning all aspects of site and workplace safety related to construction. Students will have the opportunity to use construction simulators for backhoes, cranes, and excavators.

## **PRE-VOCATIONAL MACHINE TRADES**

**A Course Number: 7151**

**B Course Number: 7152**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11

This is your opportunity to experience a fun and engaging, hands on class that will prepare you for a career in the Manufacturing Industry.

**Course A:** This course covers the importance of shop safety, tool safety, and machine safety. Students will be introduced to the vertical milling machine, engine lathe, surface grinder and their operations, setups, tooling, and the use of precision measuring instruments. Students will have the opportunity to learn hands on skills while making projects using toolroom machinery. This class will be a fun, lifetime experience.

**Course B:** This course covers the importance of shop safety, tool safety, and machine safety. Students will gain experience and knowledge by using the vertical milling machine, engine lathe, surface grinder. They will perform machining operations, setups, tooling, and use precision measuring instruments. Students will have the opportunity to learn hands on skills while making projects and learning key skills for future careers.

Note: Students may enroll in the entire series, A and B but are not required.

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## **ADVANCED VOCATIONAL AUTO TECHNOLOGY I**

**A Course Number: 7214**

**B Course Number: 7215**

Length of Course: 2 semesters  
Credit Earned: 1 credit per semester (2 Hours)  
Grade: 10, 11, 12  
Prerequisite: Successful completion of Pre-Vocational Auto Technology

**Course A:** The first semester covers Facility and Equipment Maintenance Brake Systems and Components, Wheel Bearings, Parking Brakes, Traction and Stability Control.

**Course B:** The second semester covers Suspension and Steering Systems, Wheel Alignments, Tires and Wheels, Career Ready Skills and Practices, Using a Diagnostic Scanner, Exhaust and Emissions Systems.

## **ADVANCED VOCATIONAL AUTO TECHNOLOGY II**

**A Course Number: 7216**

**B Course Number: 7217**

Length of Course: 2 semesters

Credit Earned: 1 credit per semester (2 Hours)

Grade: 11, 12

Prerequisite: Successful completion of Advanced Vocational Auto Technology I

This course is a comprehensive auto service training program designed for the student interested in a career in the automotive service trades. Advanced auto service and repair techniques are taught.

**Course A:** The first semester will cover Advanced Diagnostics, Advanced Wheel Alignment Procedures, Advanced Brake System Procedures and Diagnosis and Advanced Electrical Diagnosis. The students will focus on customer vehicles and auto shop projects.

**Course B:** The second semester will cover Advanced Diagnostics, Advanced Wheel Alignment Procedures, Advanced Brake System Procedures and Diagnosis and Advanced Electrical Diagnosis. The students will focus on customer vehicles and auto shop projects.

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## **ADVANCED VOCATIONAL BUILDING TRADES I**

**A Course Number: 7223**

**B Course Number: 7224**

Length of Course: 2 semesters

Credit Earned: 1 credit per semester (2 Hours)

Grade: 10, 11, 12

Prerequisite: Successful completion of Pre-Vocational Construction Careers

Building Trades classes are designed to give the students on-the-job experience of many skilled trades through the actual construction of a house. The students should learn all concepts of construction from foundation to the finished house. The trades include masonry, carpentry, electrical, plumbing, drywall, and roofing. The students will work in small groups with assigned tools and through this group they will learn responsibility, cooperation, and how to work with others. These courses are cyclical in nature and may overlap depending on the status of the house.



## **ADVANCED VOCATIONAL BUILDING TRADES II**

**A Course Number: 7225**

**B Course Number: 7226**

Length of Course: 2 semesters

Credit Earned: 1 credit per semester (2 Hours)

Grade: 11, 12

Prerequisite: Successful completion of Advanced Vocational Building Trades I

The class will allow students to complete the interior finish of a house using electric, pneumatic and hand tools. Students will also be involved in group leadership of the students in Advanced Building Trades I rough construction projects. Objectives: To install moldings, vents, doors, cabinets, counter tops and all needed trim, stain and varnish all trim work to a pleasing finish, install laminates, install finished electrical fixtures, install plumbing fixtures, install tile and carpeting, follow directions of building inspectors as to code for obtaining an occupancy permit for finishing the house, and assume leadership qualities as needed. These courses are cyclical in nature and may overlap depending on the status of the house.

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## **ADVANCED VOCATIONAL BUILDING TRADES III**

**A Course Number: 7227**

**B Course Number: 7228**

Length of Course: 2 semesters

Credit Earned: 1 credit per semester (2 Hours)

Grade: 12

Prerequisite: Successful completion of Advanced Vocational Building Trades II

This course provides hands-on instruction in blueprint reading, building codes, use of documents on the job site, cost analysis and advanced rough and finish skills. The student will provide assistance to help other students achieve Building Trades objectives. This student will also be introduced to in-depth studies of building trade concepts, related to occupations. The successful student will have the opportunity to experience a seamless school-to-work transition.

## ADVANCED VOCATIONAL MACHINE TRADES I

**A Course Number: 7253**

**B Course Number: 7254**

Length of Course: 2 semesters  
Credit Earned: 1 credit per semester (2 Hours)  
Grade: 10, 11, 12  
Prerequisite: Successful completion of Pre-Vocational Machine Trades

Advanced Machine Trades I is a course in which emphasis is placed on accuracy and hands-on machining operations. Students will be required to machine precise parts while learning more complex setups and machining operations using standard toolroom machinery as well as some CNC machining too!

**Course A:** This course covers shop safety, precision layout, and multiple machining operations. Students will use complex setups and close tolerance machining to make a functional project.

**Course B:** This course is a continuation of Course A. Students will expand their skills in precision machining and setups with more advanced projects that require fit and function using manual and CNC machines.

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## ADVANCED VOCATIONAL MACHINE TRADES II

**A Course Number: 7255**

**B Course Number: 7256**

Length of Course: 2 semesters  
Credit Earned: 1 credit per semester (2 Hours)  
Grade: 11, 12  
Prerequisite: Successful completion of Advanced Vocational Machine Trades I

The programming of computer numeric controlled machines (CNC) and more complex functions are included. Students will become comfortable and confident operating a CNC mill and lathe.

**Course A:** This course covers safety and the introduction to the CNC milling machine and CNC lathe. Students will learn the basic operations of the CNC machines. They will learn how to use the conversational programs as well as perform tool pickups and part offsets.

**Course B:** This course is a continuation of Course A. Students will expand their skills using more advanced manual programming and machine use. Students will learn how to program the machine with codes and successfully machine accurate parts.

## MECHATRONICS

**A Course Number: 5501**

**B Course Number: 5502**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade Level: 9, 10, 11

Mechatronics is a STEAM (Science, Technology, Engineering, the Arts, and Mathematics) focused class created to support critical thinking, problem solving, and creative ideas. Students will create their own design projects based on areas of interest. Opportunities for student leadership, participation in competitions, and work-based learning experiences, will be woven in throughout.

**Course A:** Students will work on learning the basic skill sets that are needed to meet our STEAM-based challenges. Students will learn block coding, 3D design, basics of 3D printing, laser cutting, as well as robotics controls.

**Course B:** Students will apply and refine the skill sets learned in the first semester to meet a series of group-based and individual STEAM challenges, that will ask them to use critical thinking and collaboration skills to solve real-world problems with modern solutions. This semester will culminate with a design project challenge that will showcase the student's learning throughout the year.

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## WELDING & METAL FABRICATION TECHNOLOGY

**A Course Number: 7160**

**B Course Number: 7161**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade Level: 10, 11, 12

**Course A:** This is your opportunity to experience a fun and engaging, hands on class. This course is designed to provide students with entry-level skills required in the various metalworking occupations. Areas to be covered include gas tungsten arc welding (TIG), gas metal arc welding (MIG), shielded metal arc welding (Stick), spot welding, drafting, blueprint reading along with the use of metal working power tools and metal fabrication. Students will learn and perform various weld joints in various positions.

**Course B:** This course is a continuation of Welding & Metal Fabrication Technology A, it offers students the opportunity to expand their knowledge, skills, and experience in welding. Students will design projects and create them using learned techniques, welding equipment, and metal fabrication tools and machines. This course will give students the skills and confidence needed to enter the industrial work force.

## **ADVANCED VOCATIONAL WOODWORKING I**

**A Course Number: 7173**

**B Course Number: 7174**

Length of Course: 2 semesters

Credit Earned: ½ credit per semester

Grade: 10, 11, 12

Prerequisite: Successful completion of Pre-Vocational Construction Careers

**Course A:** This course is designed for students who like to have fun while learning and developing lifelong skills. Students will be introduced to various tools and machinery used in wood manufacturing and the building industries.

**Course B:** This course has been designed for students who have demonstrated their skills in pre-voc woodworking. Students will advance their skills in higher level concepts that are used in cabinet and furniture manufacturing. Students have an option to compete in state and regional competitions, earn scholarships, and gain employment opportunities.

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## **ADVANCED VOCATIONAL WOODWORKING II**

**A Course Number: 7180**

**B Course Number: 7181**

Length of Course: 2 semesters

Credit Earned: ½ credit per semester

Grade: 11, 12

Prerequisite: Successful completion of Advanced Vocational Woodworking I

**Course A:** This course has been designed for students who have demonstrated their skills in pre-voc woodworking. Students will advance their skills in higher level concepts that are used in cabinet and furniture manufacturing. Students have an option to compete in state and regional competitions, earn scholarships, and gain employment opportunities.

**Course B:** This course has been designed for students who have demonstrated advanced craftsmanship in the fundamentals of woodworking and advanced machine and tool operation. Students are encouraged to design a project and to complete the project independently. Students have an option to compete in state and regional competitions, earn scholarships, and gain employment opportunities.

## **APPLIED VOCATIONAL TECHNOLOGY EXTERNSHIP**

**A Course Number: 7363**

**B Course Number: 7364**

Length of Course: 2 semesters

Credit Earned: ½ credit per semester

Grade: 12

Prerequisite: Current or prior enrollment in Vocational Education Block

Students will obtain actual on-the-job training for credit and a grade. The training station must be in the Applied Technology occupation area and the student must be employed for a minimum average of 15 hours per week. Students are selected in January of their junior year. Students must secure a related industrial job, either through their own resources approved by the coordinator, or through leads provided by the coordinator at the beginning of the school year. Co-op students must be enrolled in Applied Technology. If job placement is not completed in the first two weeks of school, the student will be rescheduled into the regular school day. Other schedule adjustments can be made as job placements become available.

## **COMPUTER APPLICATIONS EXCEL AND ACCESS**

**Course Number: 5023**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

Students will gain foundational information in Microsoft Excel/Access that will include creating professional spreadsheets that include editing worksheets and databases, using formulas and functions, sorting information, and creating charts.

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## **COMPUTER APPLICATIONS WORD**

**Course Number: 5024**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

Students will gain foundational information for Microsoft Word that will include creating professional documents with tables, charts, pictures, formatted text, and hyperlinking.

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## **COMPUTER APPLICATIONS POWERPOINT**

**Course Number: 5190**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

Students will gain foundational information for Microsoft PowerPoint that will include creating professional PowerPoints that include, presentation tips, formatting text, pictures, tables, slide transition, custom animation, and hyperlinking.

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## **CODING WITH BOTS**

**Course Number: 5250**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

Students will be introduced to using computational thinking and problem-solving skills to work on coding apps with block-based code. They will use the computer program in conjunction with a tablet to make usable apps. Students will further their experience with computational thinking and problem solving to code in both online tutorials and real-world coding missions with the use of self-driving bots, and python coding language.

## **INTRODUCTION TO DRONES**

**Course Number: 5260**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

This course introduces students to unmanned aerial vehicles (UAVs), also known as drones. This course will cover designing and maintenance, common flying strategies, and how to read and understand preflight weather reports. Students will be working on their flying skills from the very beginning by using a controller with video to fly a UAV. Students will learn how to fly in all directions, navigate courses and obstacles, take images and video, along with safely following all FAA protocols.

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## **BUSINESS SKILLS/TECHNOLOGY**

**A Course Number: 5150**

**B Course Number: 5151**

**Length of Course:** 2 semesters  
**Credit Earned:** ½ credit per semester  
**Grade:** 10, 11, 12

**Course A:** Students will explore the ideas and concepts of business operations and ownership skills. Topics will cover but not limited to, financials and business management. We will use project and web-based business simulations to deliver curriculum.

**Course B:** Students will explore the ideas and concepts of business and consumer relationships and a heavy concentration on employability skills. Topics will cover but not limited to business functions, career planning and employability skills. We will use project and web-based business simulations to deliver curriculum.

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## **ACCOUNTING & FINANCIAL SYSTEMS I**

**A Course Number: 5030**

**B Course Number: 5031**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

**Course A:** This two-semester course teaches students the basic accounting skills necessary for managing and maintaining financial records for small businesses, as well as an understanding of the accounting process. This course can give students the needed edge if you would like to pursue a business career.

**Course B:** The second semester teaches students how to write checks, complete a bank reconciliation, make adjusting entries, and create financial records for a service business. By the end of the second semester, students will go through the full accounting cycle for a service business.

## ACCOUNTING & FINANCIAL SYSTEMS II

Course Number: 5032

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 11, 12  
Prerequisite: Successful completion of Accounting I

This one semester course gives students deeper insight into the accounting skills they learned in Accounting I necessary for managing and maintaining financial records for partnerships, nonprofit organizations, departmental businesses, and corporation. You will expand your knowledge focusing on a manufacturing business which is more in depth than the service business in Accounting I.

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## WEB DESIGN/DIGITAL MEDIA I

A Course Number: 5225

B Course Number: 5226

Length of Course: 2 semesters  
Credit Earned: 1 credit per semester (2 Hours)  
Grade: 10, 11, 12

Students with interest in graphic design, photography, and intro to web design should consider taking this course. This course will enhance the skills of using design tools on the computer. Student will learn how to create impressive designs across multiple platforms.

**Course A:** Students will focus on tools and skills to edit and manipulate images, including saving proper formatting, editing techniques, and tools for basic design. Logos, web page designs and other multimedia creations will be produced in class.

**Course B:** Students will focus on a desktop publishing software application for creating flyers, brochures, magazines, newspapers, and books. Students will be introduced to using HTML and CSS. Students will build a multiple page website while learning the basic coding and structure needed to make a website for today's internet.

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## WEB DESIGN/DIGITAL MEDIA II

A Course Number: 5240

B Course Number: 5241

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 11, 12  
Prerequisite: Successful completion of Web Design I

Students will take further steps to advance their skills in web design programming. They will focus on project-based expression of skills in the various programs offered from current resources.



## **MARKETING EDUCATION I**

**A Course Number: 5110**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11

Students will gain foundational information for marketing and business that will help them become familiar with marketing and business terms, more knowledgeable consumers, and explore careers.

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## **MARKETING EDUCATION II**

**A Course Number: 5120**

**B Course Number: 5121**

Length of Course: 2 semesters  
Credit Earned: 1 credit per semester (2 Hours)  
Grade: 11, 12  
Prerequisite: Successful completion of Marketing Education I

Students gain advanced marketing and business information and learn to market themselves in the changing business world. Additionally, students get hand-on learning by running the student run school store “The Panther Den”.

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## **MARKETING EDUCATION III**

**A Course Number: 5130**

**B Course Number: 5131**

Length of Course: 2 semesters  
Credit Earned: 1 credit per semester  
Grade: 12  
Prerequisite: Successful completion of Marketing Education II & instructor approval

**Course A:** Students will experience the work world by managing “The Panther Den”. Students will oversee day-to-day operations and training new workers in the school store.

**Course B:** Students will put their marketing skills into practice by creating marketing plans for Roseville High School sports clubs. The students will work with selected groups to help them reach their goals by creating and helping implement a marketing plan.

## **MARKETING EDUCATION EXTERNSHIP AND RELATED CLASS**

**A Course Number: 5316**

**B Course Number: 5317**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 11, 12  
Prerequisite: Coordinator's approval and/or Marketing Education Store Block

Students will obtain actual on-the-job training for credit and a grade. Training stations will be secured by students through their own resources or leads provided by district coordinator. Work stations much average a minimum of 10 hours a week.

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## **BUSINESS EXTERNSHIP**

**A Course Number: 5332**

**B Course Number: 5334**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 11, 12  
Prerequisite: Coordinator's Approval or Current or previous enrollment in a business ed. class

Students will obtain actual on-the-job training for credit and a grade. The training station must be in the business occupations area and the student must be employed for a minimum average of 10 hours per week. Students are generally selected during the second half of their sophomore or junior year. They must secure an office job either through their own resources or through leads provided by the coordinator at the beginning of the school year. Students must have had or be enrolled in any of the Business Department classes.

## HOSPITALITY MANAGEMENT PRE-VOC; INTRO TO HOSPITALITY AND FOODSERVICE

**A Course Number: 6222**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11

This is the first course in the Hospitality Management program. Students will be introduced to the hospitality industry with a focus on foodservice. Combination of classroom instruction and labs in the RHS culinary facility. Students may earn ServSafe Foodhandler Certificate.

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## HOSPITALITY MANAGEMENT I

**A Course Number: 6224**

**B Course Number: 6225**

Length of Course: 2 semesters  
Credits Earned: 1 credit per semester (2 Hours)  
Grade Level: 10, 11, 12  
Prerequisite: Successful completion of Hospitality Management Pre-Voc

Students interested in foodservice/hospitality learn and practice essential industry skills in food preparation and guest service. Classroom instruction using National Restaurant Association's Foundations in Restaurant Management and Culinary Arts curriculum and hands-on skill practice at RHS student-operated restaurant.

**Course A:** Culinary Core: Student focus on the essentials of food and workplace safety, basic cooking and baking, guest service, and culinary/business math. (Segments 1,2,3,5,6) Students may earn ServSafe Food Protection Manager certification.

**Course B:** Restaurant Operations: Students focus on the essentials of marketing, management, nutrition, sustainability, advanced cooking, and career development. (Segments 7,8,9,10,11,12) Students may earn ServSafe Allergens and Beverage Service certifications.

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## HOSPITALITY MANAGEMENT II

**A Course Number: 6226**

**B Course Number: 6227**

Length of Course: 2 semesters  
Credits Earned: 1 credit per semester (2 Hours)  
Grade Level: 11, 12  
Prerequisite: Successful Completion of Hospitality Management I

Students will develop leadership skills while refining their culinary and service skills.

**Course A:** Fundamentals of Foodservice Management: Students focus on basic management functions to lead other students through the various workstations and oversee production and service in the school restaurant. (Q Segment)

**Course B:** Advanced Hospitality Management: Students focus on broadening their understanding of essential management functions to plan, lead, control, and organize foodservice production. (Q Segment) Students may earn ACF Culinary Certification.

## **HOSPITALITY MANAGEMENT III**

**A Course Number: 6250**

**B Course Number: 6251**

Length of Course: 2 semesters  
Credits Earned: 1 credit per semester (2 Hours)  
Grade Level: 12  
Prerequisite: Successful Completion of Hospitality Management II

This course is designed to prepare students for a successful career in hospitality, and/or post-secondary success in culinary or hospitality studies.

**Course A:** Advanced Culinary Exploration: Student will explore advanced concepts in food science, develop recipes, and prepare for culinary competitions.

**Course B:** Advanced Management Exploration: Students will explore advanced concepts in management, marketing, and hospitality accounting.

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## **HOSPITALITY MANAGEMENT EXTERNSHIP**

**A Course Number: 6325**

**B Course Number: 6326**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 12  
Prerequisite: Current or prior enrollment in Hospitality Management

Students will obtain actual on-the-job training for credit and a grade. The training station must be in the hospitality management occupations area and the student must be employed for a minimum average of 10 hours per week. Students are generally selected in January of their junior year and they must secure a Hospitality Management job either through their own resources or through leads provided by the coordinator at the beginning of the school year. Externship students must be enrolled in a Hospitality Management class.

# COMMUNICATION COURSES

## SPEECH

**Course Number: 9210**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12

Students will learn skills to effectively communicate in interpersonal small and large group situations they will encounter in the real world. Students will also learn skills to persuasively communicate in formal and informal real-world situations, while engaging in a variety of public speaking situations.

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## DEBATE AND PERSUASION

**Course Number: 9028**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12  
Prerequisite: Successful completion of Speech, Theatre

This course builds upon concepts learned in Speech. Students will use the communication process and public speaking techniques as they work in individual and group settings. Students will research, plan, and construct persuasive speeches concentrating on the topic, purpose, and audience. Students will engage in a variety of debate situations designed to influence others' beliefs and actions.

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## NEWS AND BROADCASTING I

**Course Number: 9230**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12

The first part of the course will concentrate on the different forms of mass media. The second part of the course will focus on learning the skills that are necessary to edit videos and produce the daily announcements. Speech writing skills will be utilized.

## NEWS AND BROADCASTING II

**A Course Number: 9232**

**B Course Number: 9233**

Length of Course: 2 semesters

Credits Earned: ½ credit per semester

Grade Level: 11, 12

Prerequisite: Successful completion of News and Broadcasting I or instructor approval

**Course A:** Students will acquire the skills necessary to create videos. They will learn how to make a storyboard, capture footage and edit. They will learn the importance of meeting deadlines, working in groups and responsible journalism. Success in this class requires a time commitment that goes beyond the scheduled class time.

**Course B:** Students will continue to create videos while learning the skill necessary to create a news production. Students will be responsible for creating a production once a week and anchor once a month. They will continue to build on the skills of collaboration and time management. Students will be required to complete an individual video project at the end of the year.

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## JOURNALISM I

**Course Number: 9027**

Length of Course: 1 semester

Credits Earned: ½ credit per semester

Grade Level: 9, 10, 11

Journalism is designed to develop students' skills in reading, writing, discussion, and analysis. Students will develop these techniques by learning the historical and ethical aspects of journalism, and will apply these ideas to writing articles that may include news, feature, editorial, sports, and technology genres. In addition, students will practice brainstorming and computer/layout design skills.

This class is a prerequisite for those students who plan to become part of the newspaper and/or yearbook staff(s).

## **JOURNALISM II**

**A Course Number: 9030**

**B Course Number: 9031**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12  
Prerequisite: Successful completion of Journalism I

**Course A:** Students will produce material for RHS's yearbook Reflections and for our website, pprowl.com. Students will write stories, conduct research, interview various people, and photograph various subjects. The expectation for students is that they become proficient in the digital skills needed to push out news quickly and frequently, as well as compile material that will serve as an archival memory of the school year.

**Course B:** This is a continuation of the skills and tasks worked on in Course A, as well as getting the yearbook ready of publication. Students will know the necessity and importance of deadlines in order to make sure the yearbook can be produced and distributed to members of the school community.

Journalism II may replace English 12 graduation requirement.

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## **MEDIA/JOURNALISM INDEPENDENT STUDY**

**A Course Number: 9270**

**B Course Number: 9271**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 11, 12  
Prerequisite: Successful completion of associated class (News & Broadcasting/Journalism)

This independent study course is designed for advanced students in News & Broadcasting. The course is for students who plan on continuing their communications education at the college level. Students will build upon their communications portfolio as an opportunity to gain experience in the field. Opportunities will be provided to develop both personal and group management skills while applying knowledge and experience from previous communications course work.

# ENGLISH DEPARTMENT

## ENGLISH 9

**A Course Number: 9005**

**B Course Number: 9006**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 9  
Graduation Requirement

**Course A:** In this course students will complete a personal narrative. They will work on establishing a tone and voice to share an experience from their past. Students will also read a variety of short stories and learn various reading strategies to improve their reading.

**Course B:** The focus of writing in this course will require students to create an argumentative essay. They will learn how to make a claim, provide reasons and establish credible evidence. Students will also read literature to learn how to identify themes and how to analyze how they develop throughout the text.

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## ENGLISH 10

**A Course Number: 9007**

**B Course Number: 9008**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 10  
Graduation Requirement

**Course A:** This course focuses on building reading and writing skills. Persuasive writing skills will be enhanced, as well as, reading comprehension and strengthening grammar/mechanics skills.

**Course B:** This course is a continuation of skills and concepts covered in English 10A. A variety of fiction and nonfiction texts will be introduced. Supporting claims and reasons with textual evidence will be explored.



## **ENGLISH 11**

**A Course Number: 9020**

**B Course Number: 9019**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 11  
Graduation Requirement

**Course A:** The focus is on the reading and analysis of fiction, including examining author’s purpose. Students will also engage in a variety of writing exercises. Non-fiction reading and analysis will be explored.

**Course B:** The progression of writing to help students prepare for the SAT. Literature, poetry, and personal narrative will be utilized through a variety of reading and writing experiences.

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## **ENGLISH 12**

**A Course Number: 9022**

**B Course Number: 9023**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 12  
Graduation Requirement

**Course A:** Students will focus on explanatory writing while using multiple sources on relative, current topics. They will include the use of specific content related terms and academic vocabulary.

**Course B:** Students will continue to reinforce the skills and concepts from 12A. There will also be a focus on using inferences from multiple sources to make a claim.

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## **LITERATURE: SUSPENSE AND MYSTERY**

**Course Number: 9050**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 11, 12

Students in this one semester literature course analyze the literary elements found in mystery, fantasy, suspense, science fiction, and horror. Students examine the similarities and differences among these genres. Reading a wide variety of short stories and novels, students identify the literary devices the author uses to achieve a desired effect and examine the ideas, theories and assumptions behind the literature.

## **READING AND WRITING THROUGH ATHLETICS**

**Course Number: 9044**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 11, 12

This course is designed for those who have a passion for athletics. Through this passion, both historical and contemporary views of key issues and figures in the world of sports will be investigated. This course will involve argument writing and critical reading of multiple and varied texts.

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## **CREATIVE WRITING**

**Course Number: 9042**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 11, 12

This course is designed for students who enjoy writing and to explore their creativity with written works. Students will learn the basics of creative writing, such as plot, character, setting, dialogue, and style. You will also explore different genres and forms of writing. There will be opportunity to read and discuss the works of various writers as well as peers. Students will also write and revise their own pieces to develop their own skills as writers.

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## **ADVANCED PLACEMENT ENGLISH COMPOSITION**

**A Course Number: 9036**

**B Course Number: 9037**

Length of Course: 2 semester  
Credits Earned: ½ credit per semester  
Grade Level: 11, 12  
(Can be taken in lieu of ELA 11 or ELA 12 graduation requirement)

**\*Full year course; students must take both semesters to prepare for the AP Exam\***

AP English Composition requires students to use the writing process to produce expository and argumentative compositions in response to a variety of non-fiction topics. Students analyze the rhetorical techniques and writing strategies used by writers of non-fiction and apply these to their own writing. This class prepares college-bound students to take the AP Language and Composition test and prepares them for college writing courses.

**Course A:** This semester's primary focus is on the writing process involved in the Rhetorical Situation.

**Course B:** This semester focuses on logic, synthesis, and argumentative writing. It will also encounter the classic essays and longer works of non-fiction.

## ADVANCED PLACEMENT ENGLISH LITERATURE

**A Course Number: 9034**

**B Course Number: 9035**

Length of Course: 2 semesters

Credits Earned: ½ credit per semester

Grade Level: 11, 12

(Can be taken in lieu of ELA 11 or ELA 12 graduation requirement)

**\*Full year course; students must take both semesters to prepare for the AP Exam\***

AP Lit is an introductory college-level literary analysis course that prepares students to take the AP Test in the spring which allows students the opportunity to earn college credit.

**Course A:** Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting and literary analysis by reading works of fiction (short stories, poems and novels) and writing essays.

**Course B:** Students continue to develop their understanding of literature through reading and analyzing texts for structure, perspective, figurative language, and literary analysis by reading literary works (poems, plays, novels) and writing essays.

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## ENGLISH LANGUAGE ARTS SUPPORT

**Course Number: 9300**

Length of Course: 1 semester

Credits Earned: ½ credit per semester

Grade Level: 9, 10, 11

This course is designed to help those students who are reading well below grade level based. Students will learn the reading strategies, predicting, retelling, visualizing and making life connection to help understand text materials. Student placement determined by teacher recommendation and test scores.

# FINE ARTS DEPARTMENT

## **BEGINNING DRAWING**

**Course Number: 6053**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12

This course is an introduction to the basic drawing concepts and techniques used in drawing. This class will focus on observational drawing strategies, value application and perspective drawing concepts.

## **BEGINNING PAINTING**

**Course Number: 6054**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12

This course is an introduction to the basic painting and color theory concepts used within the painting medium. This class will focus on the concepts of design and observational painting. Students will learn and apply a variety of color theory concepts within their work to create a strong composition.

## **BEGINNING 3D ART**

**Course Number: 6045**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12

This course is an introduction into a variety of 3D art. The class will focus on the three-dimensional art form such as ceramic, jewelry design, fiber design, and sculpture. Creativity, composition and the development of strong craftsmanship is emphasized within this course.

## **INTERMEDIATE DRAWING**

**Course Number: 60532**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12  
Prerequisite: Successful completion of Beginning Drawing

Students learn to use a variety of drawing medias and develop an understanding of their uses and techniques. The focus of this class will be on observational drawing, compositional strategies while working with a still life set-up. Drawing assignments will incorporate both black and white, along with color studies.

## **ADVANCED DRAWING**

**Course Number: 6063**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12  
Prerequisite: Successful completion of Intermediate Drawing

Students learn advanced techniques of shading through the use of stippling, cross hatching and exploring the uses of pen and ink within the drawing process. Students will be incorporating several creative problem-solving strategies within this course and incorporate the use of technology through the creative process. Drawing assignments will incorporate both black and white, along with color studies. Students will also learn how to professionally present their drawings.

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## **INTERMEDIATE PAINTING**

**Course Number: 60542**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12  
Prerequisite: Successful completion of Beginning Painting

Students learn to use a variety of painting medias, such as Tempera, watercolor and acrylics. They will increase their knowledge and applications of color theory and painting techniques. Students will also be exposed to various periods of art styles and artists.

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## **ADVANCED PAINTING**

**Course Number: 6064**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12  
Prerequisite: Successful completion of Intermediate Painting

Students will apply advanced painting techniques of watercolor and acrylic mediums within this class. Students will learn how to stretch a canvas and incorporate computer graphic programs within the advanced course. Introduction of various art styles and artists will enhance the student's work.

## **JEWELRY DESIGN**

**Course Number: 6060**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12  
Prerequisite: Successful completion of Beginning 3D Art  
Basic course materials are provided at no cost. Students who choose to do extended projects may be responsible for additional costs.

This course emphasizes the relationship of a design to its material, techniques and function. A variety of materials will be used to create functional jewelry designs. Students will learn the following techniques: sawing, filling, etching, soldering, and polishing.

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## **ADVANCED JEWELRY DESIGN**

**Course Number: 6061**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12  
Prerequisite: Successful completion of Jewelry Design  
Basic course materials are provided at no cost. Students who choose to do extended projects may be responsible for additional costs.

This course is a progression from basic jewelry construction to more advanced design and construction techniques. Additional techniques learned are: stone cutting, polishing and setting.

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## **BASIC PHOTOGRAPHY**

**Course Number: 6065**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12  
Prerequisite: Successful completion of two Beginning Art choices

This class consists of digital photography and computer graphic concepts of photography. Students will focus on the use of the camera and creating interesting photocomposition. Through the use of technology, students will learn how to manipulate images and edit with the use of computers.

## **CERAMICS**

**Course Number: 6055**  
**ODD STARTING YEARS ONLY**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12  
Prerequisite: Successful completion of two Beginning Art choices  
Basic course materials are provided at no cost. Students who choose to do extended projects may be responsible for additional costs.

Students will be introduced to various hand-built pottery techniques. This course will focus on design, construction, glaze application, and decorative techniques.

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## **SENIOR ART SEMINAR A/INDEPENDENT STUDY**

**Course Number: 6058**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 12  
Prerequisite: Successful completion of two Beginning Art choices and instructor's approval

This course is geared for students who plan on continuing their art education at the college level. This class is to build upon their fine art's portfolio, a requirement of art schools. Students are required to be on task and productive within this class. There will be several demonstrations provided on areas of interest; however, students are required to do additional research on various art techniques.

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## **SENIOR ART SEMINAR B/SENIOR PROJECT**

**Course Number: 6059**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 12  
Prerequisite: Successful completion of Senior Art Seminar A and instructor's approval

This is a continuation of the Art History section and Senior Art Seminar. Students within their research group will select a work of art depicting the selected artist or cultural influences that best represents their research and reproduce the select artwork.

## **THEATRE/PERFORMANCE I**

**Course Number: 9212**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12

Theatre/Performance I is designed to give students an appreciation of the fundamental components of theater. Participating in performance based activities, reading and analyzing plays, and learning basic theater history will be covered.

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## **THEATRE/PERFORMANCE II**

**Course Number: 9213**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 11, 12  
Prerequisite: Successful completion of Theatre/Performance I

Theatre/Performance II provides students with a broader opportunity to participate in the performing arts. Monologues, scenes, reader's theater, reading and analyzing plays, and production will be emphasized. The student is required to do specialized research in the theater arts.

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## **THEATRE/PERFORMANCE III**

**Course Number: 9214**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 12  
Prerequisite: Successful completion of Theatre/Performance II

Students will learn all phases of production including: script selection, casting, publicity, blocking, props, set, lighting, stage management, performance, and set strike. Students will also study demanding pieces from Shakespeare, Ibsen, Checkov, O'Neil, and Shaw.

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## **AUDITORIUM/THEATER TECH**

**Course Number: 9215**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12

Students will learn the essentials of a theater technician such as sound, lighting, set design, costumes, etc.



## CADET BAND

**A Course Number: 6530**

**B Course Number: 6531**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10

**Course A:** Students will rehearse and perform music on traditional band instruments (flute, clarinet, saxophone, trumpet, French horn, trombone, baritone, tuba, percussion). The Fall Concert and the Holiday Concert are required performances.

**Course B:** Students will rehearse and perform music on traditional band instruments (flute, clarinet, saxophone, trumpet, French horn, trombone, baritone, tuba, percussion). Band Festival, the Spring Concert, Memorial Day Parade, and Graduation Ceremony are required performances.

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## VARSITY BAND

**A Course Number: 6532**

**B Course Number: 6533**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12

**Course A:** Students will rehearse and perform music on traditional band instruments (flute, clarinet, saxophone, trumpet, French horn, trombone, baritone, tuba, percussion). The Fall Concert and the Holiday Concert are required performances.

**Course B:** Students will rehearse and perform music on traditional band instruments (flute, clarinet, saxophone, trumpet, French horn, trombone, baritone, tuba, percussion). Band Festival, the Spring Concert, Memorial Day Parade, and Graduation Ceremony are required performances.

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## SYMPHONIC BAND

**A Course Number: 6534**

**B Course Number: 6535**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12  
Prerequisite: Audition

**Course A:** Students will rehearse and perform music on traditional band instruments (flute, clarinet, saxophone, trumpet, French horn, trombone, baritone, tuba, percussion). The Fall Concert and the Holiday Concert are required performances.

**Course B:** Students will rehearse and perform music on traditional band instruments (flute, clarinet, saxophone, trumpet, French horn, trombone, baritone, tuba, percussion). Band Festival, Band-o-Rama, the Spring Concert, Memorial Day Parade, and Graduation Ceremony are required performances.

## STAGE/JAZZ ENSEMBLE

**A Course Number: 6536**

**B Course Number: 6537**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11, 12  
Prerequisite: Audition

**Course A:** Students will rehearse and perform music on traditional jazz band instruments (saxophone, trumpet, trombone, drumset, piano, bass, guitar).

**Course B:** Students will rehearse and perform music on traditional jazz band instruments (saxophone, trumpet, trombone, drumset, piano, bass, guitar). Band Festival, Band-o-Rama, the Spring Concert, Memorial Day Parade, and Graduation Ceremony are required performances.

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## CHOIR

**A Course Number: 6540**

**B Course Number: 6541**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12

**Course A:** This course focuses on vocal production, music reading skills, and ensemble singing techniques. Students are introduced to part singing and perform appropriate skill-level choral music for concerts. Students are selected from this group to perform in show choir, which rehearses after school. Attendance at all scheduled performances is required.

**Course B:** This course covers a wide variety of choral music while focusing on vocal production, ensemble singing techniques, music reading skills, and music theory. Students are selected from this group to perform in show choir, which rehearses after school. Activities include solo and ensemble, concerts, and music festivals. Attendance at all scheduled performances is required.

## **SYMPHONIC CHOIR**

**A Course Number: 6542**

**B Course Number: 6543**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12  
Prerequisite: Audition

**Course A:** Placement in this mixed-voice choir is based on vocal skill and experience. Students will be exposed to a variety of musical styles and music theory, with rigorous emphasis on sight-reading, performance - seasonal concerts, festivals, and civic functions. Students are selected from this group to perform in mixed, men's, and women's chorales, and show choir. The select groups rehearse after school. Attendance at all scheduled performances is required.

**Course B:** Students in this mixed voice choir will be exposed to choral music from a wide variety of musical styles. Emphasis is on sight reading, music theory, and history. Participation in festivals, concerts, and civic functions is required. Students are selected from this group to perform in mixed, men's, and women's chorales, and show choir. The select groups rehearse after school. Attendance at all scheduled performances is required.

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## **MUSIC EXPLORATION I**

**Course Number: 6548**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12

This music course will provide a basic understanding of music vocabulary, with connections of music performed in the past eras to present day. Students will recognize and describe the role and influence of music on other areas of life throughout history.

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## **GUITAR**

**Course Number: 6520**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12

Students will learn the fundamentals of acoustic guitar performance so that they can apply learned skills to a variety of musical styles. Students will learn how to read standard musical notation (not tabs) as part of this course. Classes are a combination of group instruction and individual practice. Grading will be based on student performance of unit playing assessments, along with standard music notation assignments and assessments.

# HEALTH AND PHYSICAL EDUCATION DEPARTMENT

## PHYSICAL EDUCATION I: HEALTH & WELLNESS

**Course Number: 8010**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12  
Graduation Requirement

Students must take PE I: Health & Wellness or PE I: Health & Aquatics. **Students cannot take both.**

This course is designed to give students a clear concept of nutrition, effects of substance abuse, social/emotional/personal health, sexual education, disease prevention, first aid, and CPR.

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## PHYSICAL EDUCATION I: HEALTH & BASIC AQUATICS

**Course Number: 8011**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12  
Graduation Requirement

Students must take PE I: Health & Wellness or PE I: Health & Aquatics. **Students cannot take both.**

This course is designed to give students a clear concept of nutrition, effects of substance abuse, social/emotional/personal health, sexual education, disease prevention, first aid, and CPR. The course culminates with the basic stroke development and survival skills of the Red Cross aquatics program.

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## PHYSICAL EDUCATION II: INTRODUCTION TO SPORTS & FITNESS

**Course Number: 8012**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12  
Graduation Requirement

This course provides every student with a chance to attempt many different activities, as well as to learn and encourage physical fitness and a good mental attitude toward physical activity. Sports appreciation, sportsmanship and teamwork are taught as a lifetime goal. (Graduation Requirement may be fulfilled in lieu of this class for students that participate in two consecutive years of High School Marching Band or play two consecutive years of the same school sponsored athletic sport, with waiver form completed)

## **PHYSICAL FITNESS – PROGRESSIVE RESISTANCE I**

**Course Number: 8020**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

This course will be an introduction to the use of free-weights and weight machines for strength improvement. Additional activities will include record keeping, building muscular endurance and setting personal strength level records.

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## **PHYSICAL FITNESS – PROGRESSIVE RESISTANCE II**

**Course Number: 8025**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

This course will expand on basic weight training techniques to include dead lifts, power cleans and squats. Advanced performance routines including pyramid workouts and repetition records will be used to help students continue to improve from Progressive Resistance I achievement.

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## **PHYSICAL FITNESS – AEROBICS**

**Course Number: 8030**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

This course will be an introduction to fitness and muscle toning through the use of high impact, low impact and step aerobics. Additional cardiovascular exercises will include the use of jump ropes, agility and muscle stretching, running, jogging, power walking and the use of free-weights.

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## **RECREATION SWIMMING**

**Course Number: 8040**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12  
Prerequisite: Physical Education I

Activities include water sports, review of basic swimming strokes, water safety, survival swimming and conditioning swimming.

## **LIFEGUARDING**

**Course Number: 8050**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12  
Prerequisite: 15 years of age by completion of course. 300 yards continuous swim using front crawl with rotary breathing and breaststroke. Retrieval of a 10 lb. brick in 10 feet of water.

This course is to provide entry-level lifeguard participants with the knowledge and skills to prevent, recognize and respond to emergencies, and to provide care for injuries and sudden illnesses until EMS personnel arrive and take over. Successful completion will award the student with valid American Red Cross cards in CPR for the Professional Rescuer, First Aid and Lifeguarding.

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## **TEAM SPORTS A**

**Course Number: 8075**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

This course includes team related sports activities. The following sports will be covered: flag football, power volleyball, soccer, and softball. Sportsmanship and teamwork are taught, as well as rules and history of each sport. This course will also include a unit on officiating and how to become a MHSAA certified official.

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## **TEAM SPORTS B**

**Course Number: 8078**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

This course includes team related sports activities. The following sports will be covered: volleyball, floor hockey, basketball, team handball, and softball. Sportsmanship and teamwork are taught as well as rules and history of each sport. This course will also include a unit on officiating and how to become a MHSAA certified official.

## **ADVANCED ATHLETICS**

**Course Number: 8081**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

Advanced Athletics is a course designed for male and female students who have a desire to improve their performances in interscholastic sports. The course will provide each student with an individualized program for speed, power, strength, agility and flexibility improvement. Pre- and post athletic tests such as vertical and jump, 40 yard dash and shuttle run will be used to monitor improvement

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## **INTEGRATED FITNESS**

**Course Number: 8035**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 11, 12

This course will include the integration of strength, cardio, aquatic, speed, and agility training. Students will also learn how to develop their own individual fitness and meal plans. This class is designed for both female and male students who are seriously interested in improving their personal health and fitness.

# MATH DEPARTMENT

## ALGEBRA I

**A Course Number: 1131**

**B Course Number: 1132**

Length of Course: 2 semesters  
Credits Earned:  $\frac{1}{2}$  credit per semester  
Grade Level: 9, 10  
Graduation Requirement

**Course A:** Algebra contains an in-depth look at evaluating, solving, and graphing linear equations and inequalities through rigorous classroom activities, guided practice on Desmos, homework, and the aid of technology, such as the TI-84 calculator.

**Course B:** Algebra 1 contains an in-depth look at evaluating, solving, and graphing linear systems and quadratic functions through rigorous classroom activities, guided practice on Desmos, homework, and the aid of technology, such as the TI-84 calculator.

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## ALGEBRA II

**A Course Number: 1151**

**B Course Number: 1152**

Length of Course: 2 semesters  
Credits Earned:  $\frac{1}{2}$  credit per semester  
Grade Level: 9, 10, 11, 12  
Prerequisite: Successful completion of Algebra I  
Graduation Requirement

**Course A:** Review and develop concepts that are introduced in Algebra I. Throughout the semester the following topic will be covered: Polynomials

**Course B:** Throughout the semester the following topics will be covered: Rational functions, rational exponents, and complex numbers.

Both semesters will use the aid of technology.

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## ALGEBRA SUPPORT

**Course Number: 1130**

Length of Course: 1 semester  
Credit Earned:  $\frac{1}{2}$  credit per semester (elective credit only)  
Grade: 9, 10

This class will be offered in addition to the student's regular Algebra class. It will focus on hands-on learning for both concepts and work currently being taught in the student's Algebra class. The credit earned in this class will not count towards math graduation requirement.



## **ALGEBRA II SUPPORT**

**Course Number: 1160**

Length of Course: 1 semester  
Credit Earned:  $\frac{1}{2}$  credit per semester (elective credit only)  
Grade: 10, 11, 12

This class will be offered in addition to the student's regular Algebra II class. It will focus on hands-on learning for both concepts and work currently being taught in the student's Algebra II class. The credit earned in this class will not count towards math graduation requirement.

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## **GEOMETRY**

**A Course Number: 1142**

**B Course Number: 1143**

Length of Course: 2 semesters  
Credits Earned:  $\frac{1}{2}$  credit per semester  
Grade Level: 10, 11, 12  
Graduation Requirement

**Course A:** The semester will begin with a dive into segment, angle, and triangle concepts. Similarity and congruence concepts will then be explored and developed, including transformations. The semester will end with topics in triangles including right triangle trigonometry.

**Course B:** The semester will begin with a dive into analytic geometry, including distance, midpoint, and parallel and perpendicular lines on the coordinate plane. Students will then explore concepts with circles, and the semester will end with an exploration of 3-dimensional solids.

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## **GEOMETRY SUPPORT**

**Course Number: 1140**

Length of Course: 1 semester  
Credit Earned:  $\frac{1}{2}$  credit per semester (elective credit only)  
Grade: 10, 11

This class will be offered in addition to the student's regular Geometry class. It will focus on hands-on learning for both concepts and work currently being taught in the student's Geometry class. The credit earned in this class will not count towards math graduation requirement.

## **PRE-CALCULUS A/B**

**A Course Number: 1164**

**B Course Number: 1165**

Length of Course: 2 semesters  
Credits Earned:  $\frac{1}{2}$  credit per semester  
Grade Level: 11,12  
Prerequisite: Successful completion of Algebra I, Algebra II, and Geometry

**Course A:** At the core of this curriculum students will be studying the unit circle. They will learn how to derive it. And they will be working with the six trigonometric functions. They will learn what they are, verify identities with them, as well as solve equations with them. This course is recommended for those considering going into A.P. Calculus in the future or for seniors who are college bound.

**Course B:** Students will go further in their trigonometric function knowledge with this course. They will learn how to apply them with right triangle problems as well as using Law of Sines & Law of Cosines. Limits & logarithmic functions will be introduced as well. This course is recommended for those considering going into A.P. Calculus in the future or for seniors who are college bound.

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## **CALCULUS**

**A Course Number: 1171**

**B Course Number: 1172**

Length of Course: 2 semesters  
Credits Earned:  $\frac{1}{2}$  credit per semester  
Grade Level: 12  
Prerequisite: Successful completion of Pre-Calculus A/B

Calculus is the mathematics of change and motion. Calculus will provide a quick review of Pre-Calculus and explore differentiation rules and applications of differentiation. Students will also learn how to use antiderivatives and integration to find functions when rate of change is given.

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## **PROBABILITY & STATISTICS**

**Course Number: 1115**

Length of Course: 1 semester  
Credits Earned:  $\frac{1}{2}$  credit per semester  
Grade Level: 11,12  
Prerequisite: Successful completion of Algebra I

Students will become familiar with many of the practices of statistics, such as taking surveys, collecting data, and describing populations. Students will also learn the basic concepts of probability and the use of the counting principle relating to real world events.

## ADVANCED PLACEMENT CALCULUS

**A Course Number: 1174**

**B Course Number: 1175**

Length of Course: 2 semesters

Credits Earned:  $\frac{1}{2}$  credit per semester

Grade Level: 12

Prerequisite: Successful completion of Pre-Calculus A/B

**\*Full year course; students must take both semesters to prepare for the AP exam\***

A full year of the course is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas:

**Course A:** Concepts and skills of limits and derivatives. Along with learning how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and how to make connections amongst these representations. Technology will be used to help solve problems, experiment, interpret results, and support conclusions.

**Course B:** Definite integrals, and the Fundamental Theorem of Calculus. Along with learning how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and how to make connections amongst these representations. Technology will be used to help solve problems, experiment, interpret results, and support conclusions.

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## WORKFORCE MATH

**Course Number: 1111**

Length of Course: 1 semester

Credits Earned:  $\frac{1}{2}$  credit per semester

Grade Level: 11,12

The course will help you be workforce ready and have math skills advantage over other applicants. You will learn the main math concepts needed to be successful in workplace or skilled trades positions available right after high school. These include, but are not limited to, converting measurements, measuring in different units, using scale factors, practice with the types of math you will encounter, and much more. This math course is highly recommended for those students planning to enter the workforce immediately after high school.

# SCIENCE DEPARTMENT

## PHYSICAL SCIENCE INTERACTIONS

**A Course Number: 4020**

**B Course Number: 4021**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 9

This course is designed to be a full year. The course covers fundamental forces, unseen yet felt in every moment of our existence, govern the interactions of matter and energy that in turn shape our lives. By understanding these forces, we create a foundation that supports doing and understanding modern sciences and technologies.

**Course A:** Students develop a model of electric interactions to explain electrostatic phenomena. To develop and revise their models, students collect evidence related to how charged objects interact with other objects. They develop a particulate model of materials and a model of atomic structure to start building an understanding of the mechanism of charging objects. They develop a particulate model of materials and a model of atomic structure to start building an understanding of the mechanism of charging objects. Students further develop their model of electrostatic interactions by incorporating the relationship between electric potential energy and electric forces. In particular, the electrostatic attractions and energy conversions involved in the formation of molecules (chemical reactions).

**Course B:** Students use their models of molecular structure to explain and predict observed properties of materials. Students analyze and compare the energy transformations and conversions that occur during phase changes and chemical reactions. The model of electric interactions expands to incorporate permanent dipoles at the molecular level. Students explore how molecular interactions in water based environments are important for life and result in shapes necessary for biological functions. Students will apply the notion of stability and energy to describe how a fever can disrupt biologically important molecules (proteins). They will use simulations to see how temperature changes can affect the binding structure of proteins.

### **Physical Science courses that can be taken for Physical Science credit:**

Physical Science Interactions Course A and B  
Physics Course A and B  
Chemistry Course A and B

## PHYSICS

**A Course Number: 4121**

**B Course Number: 4122**

Length of Course: 2 semesters  
Credit Earned:  $\frac{1}{2}$  credit per semester  
Grade: 9, 10, 11, 12

This course is a study of motion, forces, energy, and their relationship with the world around us, including engineering, environmental, and societal impacts. Students will observe various phenomena and gather data from investigations. Exploring the topics of Energy Flow From Earth's Systems and Electromagnetic Radiation, Collisions & Momentum and Meteors, and Orbits, & Gravity.

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## ADVANCED PLACEMENT PHYSICS

**A Course Number: 4150**

**B Course Number: 4151**

Length of Course: 2 semesters  
Credit Earned:  $\frac{1}{2}$  credit per semester  
Grade: 10, 11, 12  
Prerequisite: Successful completion of Physics or Physical Science Interactions

**\*Full year course; students must take both semesters to prepare for the AP Exam\***

Designed to be the equivalent of introductory College Physics class, students may earn College credit by examination.

**Course A:** This course includes One-dimensional motion, Two-dimensional motion, Forces and Newton's laws of motion, Uniform circular motion and gravitation, Work and energy Linear momentum and collisions, Torque and angular momentum.

**Course B:** This course includes simple harmonic motion, waves and sound, electric charge and electric force, DC circuits.

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## CHEMISTRY

**A Course Number: 4101**

**B Course Number: 4102**

Length of Course: 2 semesters  
Credit Earned:  $\frac{1}{2}$  credit per semester  
Grade: 10, 11

This course provides the basic skills needed to advance in chemistry and most other science fields. The focus is on the interaction between atoms and the reasons atoms have particular properties.

**Course A:** This course includes the properties of matter and the role atoms play in those properties. Emphasis will be placed on atomic theory and patterns that develop with the elements. The importance of valence electrons will finish up the course.

**Course B:** The focus will be on bonding and the role energy and valence electrons play in bonding. Reactions and formulas will be predicted and experimental design will be implemented.

## ADVANCED PLACEMENT CHEMISTRY

**A Course Number: 4115**

**B Course Number: 4116**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 11, 12  
Prerequisite: Successful completion of Chemistry or Physical Science  
Interactions with teacher recommendation

**\*Full year course; students must take both semesters to prepare for the AP Exam\***

This course provides students with the conceptual framework, knowledge, and analytical skills necessary to deal with the science of chemistry. Designed to be the equivalent of introductory college chemistry, students may earn college credit by examination.

**Course A:** This course includes atomic structure and properties, molecular and ionic compound structure and properties, intermolecular forces and properties and chemical reactions.

**Course B:** This course includes kinetics, thermodynamics, equilibrium, acids and bases and applications of thermodynamics.

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## BIOLOGY

**A Course Number: 4041**

**B Course Number: 4042**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 11, 12  
Graduation Requirement

This course is a study of living things with emphasis on their interrelationships. This course will include laboratory periods utilizing research, inquiry-based modeling, and interactive aids to provide the students with practical experience to correlate with written materials. This course uses the scientific method to promote inquiry and learning.

**Course A:** This course includes Unity & Diversity of Life, Population Dynamics, Natural Selection, Chemical Reactions, Cellular Respiration, Photosynthesis, & Feedback Loops.

**Course B:** This course includes Matter Cycles, Energy Flow, Meiosis, Classical Genetics, DNA Structure & Function, Mitosis/Growth & Development, and Population Variation.

## ADVANCED PLACEMENT BIOLOGY

**A Course Number: 4141**

**B Course Number: 4142**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 12  
Prerequisite: Successful completion of Biology

**\*Full year course; students must take both semesters to prepare for the AP Exam\***

This course is designed for those students planning a career in a biology related field. Designed to be the equivalent of introductory college biology, students may earn college credit by examination.

**Course A:** This course includes Biochemistry, organic molecules, enzymes, cells, fermentation, photosynthesis, cell respiration, heredity, evolution, cell reproduction and inheritance patterns.

**Course B:** This course includes Molecular genetics, RNA, DNA, gene regulation, mutation, physiology of organisms, environmental science, diversity of organisms, classification, population dynamics, communities, ecosystems, and global issues.

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## HUMAN BIOLOGY

**Course Number: 4045**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

Human biology is a course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. The curriculum provides a basis for students to develop a strong conceptual understanding of the following topics and human body systems: body organization, histology, integumentary system, skeletal system, muscular system, nervous system, cardiovascular, system, respiratory system, digestive system, urinary system, and reproductive system. Students have the opportunity to integrate that knowledge through inquiry-based activities and laboratory investigations. This course is designed students interested in biology and/or a career in health after high school.

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## EARTH SCIENCE

**Course Number: 4190**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

This course is a study of earth materials and natural resources, and its ever-changing surface. Concepts include earth plates, the theories of geology, earthquake, volcanoes, the rock cycle, erosion and the relationships between the interior and exterior earth, formation and composition of minerals, the rock cycle, origin and use of building materials, and energy resources.

## **WEATHER**

**Course Number: 4191**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

This course is a study of the atmosphere and the water cycle. The students will learn how the oceans and the atmosphere move and transfer energy around the planet. There will also be a study of earth's freshwater system from rivers, lakes and streams to glaciers. The effects of the human impact on the earth in the form of pollutions will also be covered. There will be an understanding of the factors influencing the changing weather and climate. The development of severe weather will be studied.

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## **ASTRONOMY**

**Course Number: 4015**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

This course provides the student with a better understanding of stars, galaxies, our sun, and solar system. There will be an emphasis on the origin and age of the solar system, the planets, moons, asteroids, comets, and everything that orbits the sun. Other topics include past, present and future missions by NASA, the chemical composition of matter in the solar system, and the life cycle of stars. Physical laws of matter motion and forces will be discussed. The planetarium will be used to reinforce class discussion.

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## **ENVIRONMENTAL SCIENCE**

**Course Number: 4025**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

This course provides students an opportunity to deal with current and relevant topics in the science of ecology. Topics include global warming, plants, animals and their environment, alternative energy, human populations, toxins, endangered species, and pollution.



# SOCIAL STUDIES DEPARTMENT

## CIVICS

**Course Number: 2070**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 11, 12  
Graduation Requirement

Civics is the study of citizenship and government. This one-semester course provides students with a basic understanding of civic life, politics, and government, and a short history of government's foundation and development in this country. Students learn how power and responsibility are shared and limited by government, the impact American politics has on world affairs, the place of law in the American constitutional system, and which rights the American government guarantees its citizens. Students also examine how the world is organized politically and how civic participation in the American political system compares to that in other societies around the world today.

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## ADVANCED PLACEMENT U. S. GOVERNMENT

**A Course Number: 2075**  
**B Course Number: 2076**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 11, 12  
(Successful completion can fulfill Civics graduation requirement)

**\*Full year course; students must take both semesters to prepare for the AP Exam\***

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments.

**Course A:** This course will focus on Foundations of American Democracy, American Political Ideologies and Beliefs, and Political Participation.

**Course B:** This course will focus on Interactions Among the Branches, Civil Rights, and Civil Liberties. Near the end of the second semester, students will have the opportunity to take the A.P. exam, which will give them an opportunity to gain college credit.

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## GLOBAL ISSUES

**Course Number: 2021**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

Global Issues is the study and discussion of today's world. Themes discussed will include world cultures, population issues, immigration, climate change, poverty, hunger and human rights. Particular emphasis will be placed on current events and important items in the news.

## GEOGRAPHY

**Course Number: 2030**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

Geography is an introduction to the physical elements of geography and the environment in which people live. Major topics are: Weather and climate, vegetation and soils, landforms, ecosystems distribution and their significance to the ways in which humans have lived in and modified their environment.

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## ADVANCED PLACEMENT HUMAN GEOGRAPHY

**A Course Number: 2063**

**B Course Number: 2064**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

(Successful completion can fulfill World History/Geography graduation requirement)

**\*Full year course; students must take both semesters to prepare for the AP Exam\***

Students will learn about the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. Students will use spatial concepts and landscape analysis to examine human social organization and its environmental consequences and learn about the methods and tools geographers use in their science and practice.

**Course A:** This course will focus on the following units: Thinking Geographically, Population and Migration Patterns/Processes, Cultural Patterns/Processes, and Political Patterns/Processes.

**Course B:** This course will focus on Agriculture and Rural Land-Use Patterns/Processes, Cities and Urban Land-Use Patters/Processes, and Industrial and Economic Development Patterns/Processes. Near the end of the second semester, students will have the opportunity to take the A.P. exam, which will give them an opportunity to gain college credit.

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## ECONOMICS

**Course Number: 2040**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

Students in economics will develop an "economic literacy" essential for citizens to compete in our national and global economy. This economic literacy will provide students with analysis, reasoning, problem solving, and decision-making skills to help them function as consumers, producers, savers, investors, and responsible citizens.

## **PERSONAL ECONOMICS**

**Course Number: 2045**

Length of Course: 1 semester  
Credits Earned: ½ credit per semester  
Grade Level: 10, 11,12

Students learn how to navigate financial decisions related to income, budgeting, banking, credit, insurance, financing postsecondary education, taxes, buying/leasing a vehicle and living independently. Development of financial literacy skills will provide the basis for responsible citizenship, effective participation in the workforce and lifelong success.

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## **WORLD HISTORY & GEOGRAPHY**

**A Course Number: 2052**  
**B Course Number: 2053**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 9, 10  
Graduation Requirement

In a global context, students will develop historical critical thinking skills to examine and analyze the impact of demographic, technological, environment, political, and economic changes on people, their culture, and their environment.

**Course A:** This course will focus on the European Renaissance and Reformation through the Scientific Revolution.

**Course B:** This course will begin with the Enlightenment and Global Political Revolutions up through the beginning of the Cold War.

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## **MODERN AMERICAN HISTORY – 1970-PRESENT**

**Course Number: 2055**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 11, 12

This course is the study of U.S. History from Watergate and the end of the Nixon era to the present. Major themes such as technology, media and foreign relations, social and cultural change will be used to focus on such issues as the demise of the Cold War, the impact of modern media and the Internet on society, the rise of the Reagan revolution, the U.S.'s increased involvement in the Middle East, the Clinton era, and the United States's role in globalization.

## U.S. HISTORY & GEOGRAPHY

**A Course Number: 2073**

**B Course Number: 2074**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 10  
Graduation Requirement

This course will cover U.S. History from the Industrial Age through the Vietnam Conflict. Major themes such as technology, media, and foreign relations, social and cultural change will be analyzed through critical thinking and application of historical evidence

**Course A:** This course will cover the Industrial Age through World War I.

**Course B:** This course will cover the Great Depression through the Vietnam Conflict.

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## ADVANCED PLACEMENT U. S. HISTORY

**A Course Number: 2060**

**B Course Number: 2061**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

(Successful completion can fulfill U.S. History/Geography graduation requirement)

**\*Full year course; students must take both semesters to prepare for the AP Exam\***

AP U. S. History is a demanding and rigorous course designed to prepare you to take the Advanced Placement U. S. History exam in early May. This course helps students develop critical history thinking skills by making claims and arguments, citing evidence, as well as making connections through the historical development of our nation.

**Course A:** This course will start with America before Columbus and take students through the Civil War.

**Course B:** This course will focus on Reconstruction through the present. Near the end of the second semester, students will have the opportunity to take the A.P. exam, which will give them an opportunity to gain college credit.

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## METRO DETROIT: A MODERN HISTORY

**Course Number: 2023**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

This course explores the cultural and historical dynamics in the Metro Detroit area from the late 19th Century to the present. Including the roles that industrialization, urbanization, and suburbanization have played in shaping the Detroit Metropolitan area.

## ADVANCED PLACEMENT PSYCHOLOGY

**A Course Number: 2090**

**B Course Number: 2091**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12  
Prerequisite: Previous or concurrent AP class

**\*Full year course; students must take both semesters to prepare for the AP Exam\***

Students will explore the concepts, theories, perspectives, phenomena, and behaviors associated with the subfields and research areas of psychology.

**Course A:** This course will focus on the Scientific Foundations of Psychology, Biological Basis of Behavior, Sensation and Perception, Learning, and finally Cognitive Psychology.

**Course B:** This course will focus on Developmental Psychology, Motivation, Emotion, and Personality, Clinical Psychology, and lastly, Social Psychology. Near the end of the second semester, students will have the opportunity to take the A.P. exam, which will give them an opportunity to gain college credit.

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## LEADERSHIP

**Course Number: 2096**

Length of Course: 1 semester  
Credit Earned: ½ credit per semester  
Grade: 10, 11, 12

This course is designed to study the concepts of group processes, cooperative planning, shared responsibilities, positive action, and mutual understanding. This leadership course will require you to plan, implement and evaluate projects. In doing so, you will be using both problem-solving and leadership skills.

This course will challenge students to understand their role in leadership and to identify ways in which one interacts with others. Emphasis will be placed on student participation and involvement addressing the concerns of the school community to understand levels of organization, levels of authority, communication, and management techniques.

# WORLD LANGUAGE DEPARTMENT

## FRENCH I

**A Course Number: 3211**

**B Course Number: 3212**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12

**Course A:** This class focuses on students acquiring basic French proficiency for the real world. Students will begin to develop skills in speaking, listening, reading, and writing by using high-frequency vocabulary and culturally relevant materials, such as stories, novels, videos, and other authentic resources. Active participation is a critical component for success in this class.

**Course B:** This class is a continuation of French 1A. The class will reinforce language structures from the first semester while exploring new cultural products and perspectives from the French-speaking world. Students will also continue to develop their speaking, listening, reading, and writing abilities in the Spanish language. Active participation is a critical component for success in this class.

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## FRENCH II

**A Course Number: 3213**

**B Course Number: 3214**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12  
Prerequisite: Successful completion of French IA & IB

**Course A:** This class focuses on solidifying the key structures and cultural components introduced during the first year of French. Students will continue to work on developing their skills in speaking, listening, reading, and writing by using both more advanced vocabulary and culturally relevant materials, such as stories, videos, novels, and other authentic resources. Active participation is a critical component for success in this class.

**Course B:** This class is a continuation of French 2A and continues to focus on solidifying the key structures and cultural components introduced during the first year of French. Students will continue to work on developing their skills in speaking, listening, reading, and writing by using both more advanced vocabulary and culturally relevant materials, such as stories, videos, novels, and other authentic resources. Active participation is a critical component for success in this class.

## **FRENCH III**

**A Course Number: 3215**

**B Course Number: 3216**

Length of Course: 2 semesters

Credits Earned: ½ credit per semester

Grade Level: 9, 10, 11, 12

Prerequisite: Successful completion of French IIA & IIB

**Course A:** This class focuses on building upon basic proficiency and advancing students to the intermediate proficiency level. Culture is a central component to the course as many themes will reflect the themes from the Advanced Placement French test. Themes and content will be explored through authentic written and visual materials. Class content will be on a two-year rotation. Active participation is a critical component for success in this class.

**Course B:** This class is a continuation of French 3A and continues to focus on building upon basic proficiency and advancing students to the intermediate proficiency level. Culture is a central component to the course as many themes will reflect the themes from the Advanced Placement French test. Themes and content will be explored through authentic written and visual materials. Class content will be on a two-year rotation. Active participation is a critical component for success in this class.

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## **FRENCH IV**

**A Course Number: 3217**

**B Course Number: 3218**

Length of Course: 2 semesters

Credits Earned: ½ credit per semester

Grade Level: 10, 11, 12

Prerequisite: Successful completion of French IIIA & IIIB

**Course A:** This class focuses on building upon basic proficiency and advancing students to the intermediate proficiency level. Culture is a central component to the course as many themes will reflect the themes from the Advanced Placement French test. Themes and content will be explored through authentic written and visual materials. It will also be on a two-year rotation. Active participation is a critical component for success in this class.

**Course B:** This class is a continuation of French 4A and continues to focus on building upon basic proficiency and advancing students to the intermediate proficiency level. Culture is a central component to the course as many themes will reflect the themes from the Advanced Placement French test. Themes and content will be explored through authentic written and visual materials. It will also be on a two-year rotation. Active participation is a critical component for success in this class.

## SPANISH I

**A Course Number: 3321**

**B Course Number: 3322**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12

**Course A:** This class focuses on students acquiring basic Spanish proficiency for the real world. Students will begin to develop skills in speaking, listening, reading and writing by using high-frequency vocabulary and culturally relevant materials, such as stories, novels, videos, and other authentic resources. Active participation is a critical component for success in this class.

**Course B:** This class is a continuation of Spanish 1A. The class will reinforce language structures from the first semester while exploring new cultural products and perspectives from the Spanish-speaking world. Students will also continue to develop their speaking, listening, reading and writing abilities in the Spanish language. Active participation is a critical component for success in this class.

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## SPANISH II

**A Course Number: 3323**

**B Course Number: 3324**

Length of Course: 2 semesters  
Credits Earned: ½ credit per semester  
Grade Level: 9, 10, 11, 12  
Prerequisite: Successful completion of Spanish IA & IB

**Course A:** This class focuses on solidifying the key structures and cultural components introduced during the first year of Spanish. Students will continue to work on developing their skills in speaking, listening, reading and writing by using both more advanced vocabulary and culturally relevant materials, such as stories, videos, novels, and other authentic resources. Active participation is a critical component for success in this class.

**Course B:** This class is a continuation of Spanish 2A and continues to focus on solidifying the key structures and cultural components introduced during the first year of Spanish. Students will continue to work on developing their skills in speaking, listening, reading and writing by using both more advanced vocabulary and culturally relevant materials, such as stories, videos, novels, and other authentic resources. Active participation is a critical component for success in this class.



## SPANISH III

**A Course Number: 3325**

**B Course Number: 3326**

Length of Course: 2 semesters

Credits Earned: ½ credit per semester

Grade Level: 9, 10, 11, 12

Prerequisite: Successful completion of Spanish IIA & IIB

**Course A:** This class focuses on building upon basic proficiency and advancing students to the intermediate proficiency level. Culture is a central component to the course as many themes will reflect the themes from the Advanced Placement Spanish test. Themes and content will be explored through authentic written and visual materials. Class content will be on a two-year rotation. Active participation is a critical component for success in this class.

**Course B:** This class is a continuation of Spanish 3A and continues to focus on building upon basic proficiency and advancing students to the intermediate proficiency level. Culture is a central component to the course as many themes will reflect the themes from the Advanced Placement Spanish test. Themes and content will be explored through authentic written and visual materials. Class content will be on a two-year rotation. Active participation is a critical component for success in this class.

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## SPANISH IV

**A Course Number: 3327**

**B Course Number: 3328**

Length of Course: 2 semesters

Credits Earned: ½ credit per semester

Grade Level: 10, 11, 12

Prerequisite: Successful completion of Spanish IIIA & IIIB

**Course A:** This class focuses on building upon basic proficiency and advancing students to the intermediate proficiency level. Culture is a central component to the course as many themes will reflect the themes from the Advanced Placement Spanish test. Themes and content will be explored through authentic written and visual materials. It will also be on a two-year rotation. Active participation is a critical component for success in this class.

**Course B:** This class is a continuation of Spanish 4A and continues to focus on building upon basic proficiency and advancing students to the intermediate proficiency level. Culture is a central component to the course as many themes will reflect the themes from the Advanced Placement Spanish test. Themes and content will be explored through authentic written and visual materials. It will also be on a two-year rotation. Active participation is a critical component for success in this class.

# SPECIAL PROGRAMS

## COMMUNITY VOLUNTEER SERVICE

**A Course Number: 8501**

**B Course Number: 8502**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12

Community service gives students an opportunity to develop personal responsibility, interpersonal skills and exposure to possible careers as well as providing help to others. Approval must be obtained from the principal and parent before community service hours begin. Community Service must be completed outside of regular school hours.

A maximum of one (1.0) credit can be earned towards high school graduation through community service. Students must secure their own service position. Service must be done as a volunteer, it cannot be a paid position. The student must work a minimum of 50 hours of service to earn one-half (0.5 credit). Community Service forms are available in the counseling office

The following sites are examples of appropriate placement: Salvation Army, soup kitchens, summer camps, hospitals, Parks & Recreation Departments, schools, senior citizen care, or charitable organizations.

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## ENGLISH LANGUAGE DEVELOPMENT

**A Course Number: 9400**

**B Course Number: 9401**

Length of Course: 2 semesters  
Credit Earned: ½ credit per semester  
Grade: 9, 10, 11, 12  
Prerequisite: Designated as English Language Learner in PowerSchool

English Language Development is a support class for students designated as English Language Learners who must take the WIDA State Assessment. Students who meet this criteria are placed in this class. This class is designed to offer support in learning the English Language and success in other academic classes. Students designated as English Language Learners may remain in this course for multiple semesters/school years. Students may exit this course early based on WIDA results, Benchmark Testing, and/or academic performance in core classes.

**NOTES:**

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