



**2024-2025**

**Course Descriptions**  
for  
**Athens High School**  
and  
**Troy High School**

*Dr. Richard Machesky, Superintendent of Schools*

*Revised, January 2024*

# **POLICY OF NONDISCRIMINATION**

## **STUDENTS, PARENTS, AND CITIZENS OF THE TROY SCHOOL DISTRICT:**

**Title IX of the Educational Amendments of 1972 provides that no person shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance except as may be permitted by law.**

**Section 504 of the Rehabilitation Act of 1973 and the American's with Disabilities Act (ADA) provides that no otherwise qualified handicapped individual shall, solely by reason of his or her handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.**

**It is the policy of Troy School District not to discriminate on the basis of sex or handicap in admission or access to, treatment or employment in its programs and activities. Troy School District periodically reviews its educational and employment programs and activities to assure compliance with Title IX and Section 504/ADA.**

**Troy School District has established a grievance procedure to provide for the prompt and equitable resolution of complaints by students, employees or members of the community, alleging discrimination on the basis of sex or handicap. The grievance procedure is available through any school office or by contacting the Coordinator for Title IX and Section 504/ADA matters listed below. In addition, a School District employee who is part of a bargaining unit may process a complaint through the grievance procedure established in the collective bargaining agreement.**

**In accordance with Federal regulations, Troy School District has appointed Jordan M. Harris, J.D., Assistant Superintendent of Employee Services, as Title IX and Section 504/ ADA Coordinator for employment and personnel matters. The District's Director of Special Education has been appointed as the Section 504/ADA Coordinator for handicapped and suspected handicapped students.**

**Any questions, suggestions or concerns should be directed to:**

**John Pagel  
Assistant Superintendent of Employee Services Title IX and  
Section 504/ADA Coordinator Troy School District  
4400 Livernois Road  
Troy, MI 48098-4799  
(248)823-4000**

# Troy School District



## **Athens High School**

Mr. Vernon Burden, Principal

4333 John R. Road  
Troy, Michigan 48085

248.823.2900	Main Office
248.823.2913	Fax
248.823.2962	Counseling
248.823.2901	Attendance



## **Troy High School**

Mr. Remo Roncone, Principal

4777 Northfield Parkway  
Troy, Michigan 48098

248.823.2700	Main Office
248.823.2713	Fax
248.823.2715	Counseling
248.823.2701	Attendance

# Troy School District Graduation Requirements

**Class of 2025, 2026, 2027, 2028**

DEPARTMENT	REQUIRED CREDITS	REQUIRED COURSES AND CREDITS
<b>English</b>	4.0	<ul style="list-style-type: none"> <li>English 9 - 1.0 credit</li> <li>English 10 - 1.0 credit (class of 2028+)</li> <li>English 11 Lit/Comp <b>and</b> an English Elective <b>or</b> 11 English AP 1 &amp; 2 - 1.0 credit</li> <li>English 12 Lit/Comp 1 &amp; 2 <b>or</b> 12 English AP 1 &amp; 2 - 1.0 credit</li> </ul>
<b>Science</b>	3.0	<p>Class of '27 and '28 Requirements:</p> <p>3 Years of Science</p> <ul style="list-style-type: none"> <li>-Biology -1.0 credit</li> <li>-Chemistry 0.5 credit/Physics 0.5 credit</li> <li>-Environmental Science: Human Impact 0.5 credit</li> <li>-Science Elective 0.5 credit</li> </ul> <p>Current requirements: Class of '25, '26</p> <p>3 Years of Science</p> <ul style="list-style-type: none"> <li>-Biology -1.0 credit</li> <li>-Chemistry OR Physics -1.0 credit</li> <li>-Science Elective -1.0 credit</li> </ul>
<b>Mathematics</b>	4.0	<ul style="list-style-type: none"> <li>Algebra 1 - 1.0 credit</li> <li>Geometry - 1.0 credit</li> <li>Algebra 2 <b>or</b> Algebra 2 Part A &amp; Algebra 2 Part B - 1.0credit (or may be met through CTE program completion (e.g., OSTC)</li> <li>Math Elective - 1.0 credit</li> </ul> <p>*Students must have a math experience in their final year of high-school.</p>
<b>Social Studies</b>	3.0	<ul style="list-style-type: none"> <li>World History/Geography 1 &amp; 2 - 1.0 credit</li> <li>American History/Geography 1 &amp; 2 - 1.0 credit</li> <li>Economics - 0.5 credit</li> <li>Government and Civics - 0.5 credit</li> </ul>
<b>Personal Finance</b>	0.5	<ul style="list-style-type: none"> <li>0.5 credit of Personal Finance will be embedded into Economics and is a graduation requirement for all students beginning with the class of 2028. Students must take a TSD Economics or AP Economics course to be eligible for this credit.</li> </ul>
<b>Physical Education</b>	1.0	<ul style="list-style-type: none"> <li>Intro to Physical Activity - 0.5 credit</li> <li>P.E. Elective - 0.5 credit</li> </ul>
<b>Health</b>	0.5	<ul style="list-style-type: none"> <li>Health - 0.5 credit</li> </ul>
<b>World Language, Fine &amp; Applied Arts, CTE</b>	3.0	<ul style="list-style-type: none"> <li>2.0 credits World Language (non-sequential accepted) <b>or</b> 1.0 credit World Language <b>in addition to</b> either 1.0 credit Career Technical Education (CTE) <b>or</b> 1.0 Visual, Performing, or Applied Arts (VPAA)</li> <li>1.0 credit VPAA</li> </ul> <p>*VPAA includes Industrial Technology, Business &amp; Life Skills classes</p>
<b>Online Learning Experience</b>	0.0	A 20-hour on-line learning experience is required for graduation. This is a non-credit requirement embedded in Troy classroom experiences throughout middle and high school.
<b>*State Assessments</b>	0.0	Completion of the State of Michigan required assessments, as administered during high school.
<b>Middle School Students – High School Classes</b>	N/A	Credit bearing high school courses taken prior to high school matriculation will appear on a student's Troy School District high school transcript including the grades earned for the course. High school courses may be retaken for any reason prior to or concurrent with the next course in sequence. Retaken course grade shall replace initial course grade unless prior administrative approval is granted.
<b>Total Credits needed for Graduation</b>	22.5	All students are required to earn a total of 22.5 credits to be eligible for Troy High School or Troy Athens Diploma.

# Troy School District Graduation Requirements

**Total Credits Needed for Graduation 22.5**

## **Class of 2025 and Beyond**

Graduation Requirement Flexibility Options  
Updated 9.2015 [MCL 380.1278a & MCL 380.1278b]

**Personal Curriculum** – Students in the Troy School District may elect to earn additional credits in some core academic areas permitted by State of Michigan law in lieu of requirements in other academic areas, as long as those additional core academic courses are aligned to the student’s Educational Development Plan (EDP). Students and parents interested in this opportunity should contact a school counselor for information about all options. The counselor will guide students and parents through all options and coordinate the completion of the form if needed.

**Physical Education Elective** – Students participating in 2 seasons of Troy School District athletic programs or 2 seasons of marching band are excused from the 0.5 credit Physical Education *elective* requirement, if desired. An automated process has been established to track and document this option on all students’ transcripts if desired. No forms are required.

**World Language Requirement** – All students are required to earn 2.0 World Language credits. Flexibility exists with this requirement with regard to non-English heritage language proficiency, international study & residence world language proficiency, and the substitution of Career & Technical Education or Visual & Performing or Applied Arts credits. Students and parents interested in this opportunity should contact a school counselor for information about all options. World Language requirement flexibility will be documented by the completion of a Personal Curriculum for documentation.

**Career & Technical Education (CTE) Program Completion** – Students completing a program of study in CTE can exchange those credits earned on a 1:1 basis for required credits in science, world language, or satisfy their Algebra 2 requirement by completing a CTE program with Algebra 2 content embedded in the course. Students and parents interested in this opportunity should contact a school counselor for information about all options. The counselor will guide students and parents through all options and coordinate the completion of the CTE enrollment form documenting any credit exchange.



# Course Description Sample and Key

Here is a sample course description. The following section is the key to reading it:

**000833 Japanese 2**

*Grades 9-12. 2 Semesters. ½ credit per semester. No retake. Prerequisite: Japanese 1.*

The student will be reacquainted with skills learned in *Japanese 1* through a systematic reentry of grammar and vocabulary. The student will continue to attain proficiency in the four skills of listening, speaking, reading, and writing. The language will be presented within the context of Japan and its culture.

1. The first item in every description is the course number followed by the course title. Following the title information there may be a specific school identified which indicates where the course is offered. If a specific school is not identified, the course is offered at both high schools.
2. Italicized information included under the course title provides:
  - the grade level(s) at which the course may be taken
  - the length of the course and the number of credits it is worth
  - information regarding retaking the course
  - prerequisite requirements
3. Below the italicized information is the course description. Information provided will describe the content, operation and/or objectives of the course. Students may check with their counselor or teachers about specific details of operation and teacher expectations.
4. No courses may be retaken for additional credit unless specifically indicated, except for Independent Study. It is recommended that all students discuss their course selection with their present subject-area teacher.

## Business Department

*\* Please note that not all courses listed are offered each year.*

Accounting knowledge is essential for all persons planning on a business career or majoring in business in college.

### **Accounting and Finance**

**005002 Accounting 1**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

***Course satisfies ½ credit of math related graduation requirement during the 12th grade year.***

This is an exploratory accounting course providing students with the basic knowledge of the accounting cycle from business transactions to financial statements. The basic principles will be introduced using a service business owned by a sole proprietor. Students will put this knowledge to practical use by completing realistic simulations. Some computerized accounting may be introduced.

**005022 Accounting 2**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: Accounting 1.*

***Course satisfies ½ credit of math related graduation requirement during the 12th grade year.***

Accounting principles will be introduced that relate to a merchandising business organized as a corporation. Specialized journals and payroll will be introduced with computerized accounting emphasized throughout the semester. Computerized accounting simulations will be used extensively throughout the semester.

**005122 Financial Management**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

***Course satisfies ½ credit of math related graduation requirement during the 12th grade year.***

Students will study financial literacy which includes saving, budgeting, debt, how financial markets work, investment and retirement choices, stocks, bonds, mutual funds, investment fraud, credit, credit scoring, insurance, income taxes, consumer awareness, careers and banking activities. The students will participate in a stock market game simulation as well as a budget challenge. In addition, this class will utilize financial publications and have guest speakers from the financial world.

## **Business Administration Management + Operations**

### **005415 Business Law + Management**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

Over a semester, students will study law and management topics relating to the business industry. With regards to management, students will study the impacts of global trade, how to manage internal and external business relationships to foster positive interactions, explain the nature + scope of quality management practices with a business and design organizational structure to facilitate business activities. With regards to legal aspects, students will discuss current human resource laws + regulations, discuss ethical behaviors in the workplace, study torts, negligence, contracts and fraud, and legal requirements for starting a business.

### **005404 Digital Business**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

This course will expose students to hands-on business applications using Microsoft Office, platforms for blogging and building websites, such as Wordpress, online graphic design programs such as Canva and the responsible and ethical use of AI systems. The course will cover applications such as Word, Excel, and PowerPoint, with the goal for students to become certified through the Microsoft Office Specialist Program. The students will also use the three applications to create documents, presentations, and spreadsheets in a “mock” business setting. Resumes, cover letters, interview skills, presentation skills, and career search skills will be discussed. Students will also discuss various introductory business topics, such as data analysis to make business decisions, utilize planning tools to guide organizations/departamental activities and to develop policies and procedures to protect workplace security.

### **005231 Business Entrepreneurship**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

In this introductory course, student learn the basics of planning launching their own business. From profit to non-profit, this course helps students develop the core skills needed to be successful. The student will study the characteristics of successful entrepreneurs. Students will also learn about self-employment and basic economic concepts related to small businesses, such as competition and production, how to come up with new business ideas, attract investors, market a business and manage expenses. This course will also walk the student through the steps of developing a business plan, mission and a vision. Students will hear and read inspirational stories of entrepreneur who have turned their ideas into reality.

### **105033/205033 Junior Business Field Study (Co-op)**

*Prerequisite: Must have accumulated 10+ credits for Junior Status.*

### **105043/205043 Senior Business Field Study (Co-op)**

*Prerequisite: Must have accumulated 14.5+ credits for Senior Status. Grades 11-12. 2 semesters. 2 credit potential. No Retake.*

The student receives up to 2.0 credits for work experience (at least 10 hours per week and 200 hours per semester). The student must be concurrently enrolled in a class that relates to their job. A student must apply for this program through the building co-op coordinator, who has the authority to determine final admission. Requires counselor approval for the early dismissal option.

### **005272 Web Creation 1 (Athens)**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

The student will learn software that is currently available to produce and publish web pages on the Internet. These programs will enable the student to create and manage web pages. The topics that will be covered include basic web concepts, terminology, web page design, file formats, e-commerce, web browsing techniques, introduction to site development, markup language development, XHTML coding, brief introduction to networking, TCP/IP suite, and introduction to Web 2.0. Students will also learn how different techniques learned in the class can be applied in a “mock” business setting. Students will have the opportunity to develop websites for business purposes. Students should have basic computer skills to take this course. Software that is utilized for this class includes the CS3 suite and other various programs.

### **005282 Web Page Creation 2 (Athens)**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: Web Page Creation 1.*

The student who has mastered Web Page Creation 1 and wants to learn advanced web page creation and project management techniques will learn about frames, databases, and web search engines, Internet services and tools, Internet security, IT project management, advanced XHTML coding, GUI HTML editors, advanced web techniques, network security and IT career opportunities, internetworking, internetworking servers, hardware and operating system maintenance. Students will also learn advanced website development techniques where they will be creating a website for a company and develop skills with web development, site architecture, project management, troubleshooting, and customer service. Students will learn how different techniques learned in the class can be applied in a business setting. Software that is utilized for this class includes the CS3 suite and other various programs.

## **Marketing**

### **005222 Marketing**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

***Course satisfies ½ credit of math related graduation requirement during the 12th grade year.***

Students are introduced to basic principles of the marketing mix, economics, entrepreneurship, marketing strategies, marketing functions and market research. Students are also given the opportunity to compete in DECA. See *Marketing Co-op* course description for possible co-op credit. This course is a prerequisite for School Based Enterprise.

### **005226 Marketing 2**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: Marketing 1.*

***Course satisfies ½ credit of math related graduation requirement during the 12th grade year.***

This course is for students who wish to expand their business and marketing knowledge. Areas of study include sales, marketing research, product planning, sales strategies, sales promotion and personal selling. Students will study various topics related to Social Media Marketing including permission marketing, CRM, various forms of media and social media analytics. Students will also take part in a social media marketing simulation. (See Marketing Internship course description for possible co-op credit.)

### **005223 Honors Marketing**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: Marketing 1.*

***Course satisfies 1 credit of math related graduation requirement during the 12th grade year.***

The purpose of the course is to provide students with a deeper learning opportunity to the role of marketing in society and industry. Students will study advanced marketing mix topics, functions of marketing, and marketing research concepts. Students will utilize and incorporate market analysis tools that will look at political, economic, social and technological trends in industry. This course will allow students to look at how marketing affects various industries at a deeper level and allow for DECA preparation. The Honors Marketing course will prepare students for the potential Principles of Marketing examination (CLEP) which a student may choose to take upon completion. The results of the CLEP test may entitle the student to college waivers/credit, dependent upon the college.

### **005182 Sports and Entertainment Marketing**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

This course is designed to teach students marketing and management concepts associated with the sports and entertainment industries. Students will learn techniques and practices used that makes this industry a multi-billion dollar per year industry. Strategies used by successful sports and entertainment marketing and management firms and businesses will be evaluated. Sports and Entertainment Marketing will prepare students for advanced studies in marketing/management and create an inside look at how and why the sports and entertainment industry operates. Much of this course's work be accomplished with student teams. Students' teams will own their own professional sports franchise and participate in a Troy Athens Fantasy League. Students will research and make marketing and management decisions that will affect their individual teams (i.e., location of the franchise, team logos, team colors, team mascot, team nicknames, etc.). Other areas of sports and entertainment marketing and management that will be investigated will be the promotion of professional sports, NCAA non-revenue sports promotions, marketing history of professional sports drink sponsorship, and the movie/concert industry.

### **105113/205113 School Based Enterprise**

*12<sup>th</sup> Grade Only. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Marketing 1 and Consent of Instructor*

***Course satisfies 1 credit of math related graduation requirement during the 12th grade year.***

Students apply what they have learned in their Marketing courses to run an actual retail operation. Students will gain actual on-the-job training by managing and operating a school store that sells school-related articles such as clothing, supplies, and novelties. See *Marketing Field Study Co-op* course description for possible co-op credit.

### **105213/205213 Marketing Field Study (Co-op)**

*Grades 11-12. 2 semesters. 2 credit potential. 1 credit per semester. Retake. Prerequisite: Marketing class must be concurrent.*

This course is designed to place and train the student interested in a career in marketing such as sales, promotion, stock work, advertising and display. The student receives up to 2.0 credits for work experience and also should be enrolled in marketing classes for a full year (1 credit). Interested students should inquire with their counselor. However, final admission to the program is dependent on the co-op coordinator's approval.



# Career Technical Education

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## **Education Occupations**

### **007393 Careers in Education 1 (Athens)**

*Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: None.*

Careers in Education 1 is designed for students interested in pursuing a career related to education or working with children. In the course students will study early childhood development, positive guidance techniques, cultural competencies, and instructional strategies. They will gain communication, technical, and collaboration skills needed in the workforce. Students will observe and assist children in the Troy Athens Preschool located within Athens. Careers in Education 1 is a state approved Career and Technical Education program. Students who complete the course may use CTE Program Completion Credits toward World Language requirement (Careers in Education 2 required).

Advance Placement credits are offered at Central University, Western Michigan University, Oakland University, Macomb Community College, and Davenport University (transcript credit, no exam necessary; Careers in Education 2 required). ***Students that complete both Careers in Education 1 and 2 are eligible to receive a Child Development Associate® (CDA) credential.***

### **007403 Careers in Education 2 (Athens)**

*Grades 11-12. 2 semesters. ½ credit per semester. Prerequisite: Careers in Education 1.*

Careers in Education 2 is designed for students that have completed Careers in Education 1 to gain a deeper understanding of the field of education. In the course students will study middle childhood and adolescent development, classroom management, current trends in education, teaching strategies, and lesson planning. Students will observe and assist in the Troy Athens Preschool located within Athens. Also, students will work with an elementary or middle school teacher in a classroom setting. This will provide them with an opportunity to apply what they have learned during class. Students who complete the course may use CTE Program Completion Credits towards a World Language requirement.

Advance Placement credits are offered at Central University, Western Michigan University, Oakland University, Macomb Community College, and Davenport University (transcript credit, no exam necessary). ***Students that complete both Careers in Education 1 and 2 are eligible to receive a Child Development Associate® (CDA) credential.***

## **Hospitality / Food Services Occupations**

### **Food Services Program**

Our courses provide real-job training situations in the food service industry with instruction and hands-on operation of the newly renovated Terrace Café restaurant lab.

### **007384 Restaurant Operations / Terrace Cafe (Athens)**

*Grades 9-12. 2 semesters. 2 hours. 2 credits. Retake. Prerequisite: None.*

***Course satisfies ½ credit of math related graduation requirement during the 12th grade year.***

Students in this class should have room in their schedule to accommodate a full year of a 2-hour long class. This class will provide basic and advanced training in the food service industry. The beginning of the year will encompass an in-depth study of food safety and sanitation before moving on to basic and advanced cooking and serving skills. Our goal is to provide training in every aspect of the restaurant through job rotation. Students will get a wide variety of hands-on experiences through the operation of our restaurant lab; the Terrace Café. The Terrace is open to the public therefore providing true-to-life experience in a classroom setting. A very strong emphasis is placed on employability, decision making, problem solving, teamwork, and job training skills. We use the ProStart food service Curriculum. At the completion of the 2-year program students are eligible to earn a national certificate of achievement. Students completing this course are also eligible to earn the ServSafe Sanitation Certificate and are eligible for college credit through several articulation agreements.

### **007373 Commercial Baking (Athens)**

*Grades 9-12. 2 semesters. ½ credit per semester. Retake. Prerequisite: None.*

Students in this class will learn the basic fundamentals of commercial baking through the preparation of a wide variety of baked goods, including but not limited to: yeast breads, quick breads, cookies, pies, cakes, and other pastries. The second half of the year will stress more advanced pastries and cake decoration. The baked goods that we prepare will be served in the Terrace Café. A strong focus will be placed on the skills necessary to gain employment in the baking and pastry industry. We use the ProStart food service Curriculum. At the completion of the 2-year program students are eligible to earn a national certificate of achievement. Students completing this course are also eligible to earn their ServSafe Sanitation Certificate and are eligible for college credit through several articulation agreements.

### **007473 Commercial Foods (Athens)**

*Grades 9-12. 2 semesters. ½ credit per semester. Retake. Prerequisite: None.*

Students in this course will develop a very strong knowledge of cooking fundamentals. We will take students who have never before worked in the food service industry and teach them to rotate through all of the restaurant stations and train them for meaningful employment. Students will learn sanitation, safety, safe commercial equipment usage, knife skills, and develop hands-on skills through food preparation. This class does all of the basic food preparation for the Terrace Café. Emphasis will be placed on employability skills, decision-making, problem solving, teamwork, and job specific skills. We use the ProStart food service Curriculum. At the completion of the 2-year program students are eligible to earn a national certificate of achievement. Students completing this course are also eligible to earn the ServSafe Sanitation Certificate and are eligible for college credit through several articulation agreements.

## **Industrial Technical Department** *\*Please note that not all courses listed are offered each year.*

### **107003/207003 Automotive Technology 1 (Troy High)**

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: None.*

**Course satisfies 1 credit of math related graduation requirement during the 12th grade year.**

Automotive Technology 1 student should have an interest in the automotive field. Students will explore countless career pathways, develop hands-on skills, and learn how to safely work in an automotive lab setting. Students can expect instruction to be delivered through the forms of visual-aids, lecture, and hands-on experiences. Topics include automotive fundamentals, internal combustion engines, transmissions, and more. Excellent course option for students that are also interested in the engineering career pathway. Instruction meets NATEF Automotive Maintenance and Light Repair standards.

### **107294/207294 Automotive Tech 2 (Troy High)**

*Grades 10-12. 2 semesters. 1 credit per semester. 2 Retakes. 2- Hour Block class. Prerequisite: Automotive Technology 1 C or better.*

**Course satisfies 1 credit of math related graduation requirement during the 12th grade year.**

Technology 2 students will further develop their skills and knowledge in automotive technology. This program prepares students for careers as entry-level automotive technicians. Emphasis will be placed on Electrical, Steering and Suspension, Brakes, Heating and Air conditioning, and Engine Performance. A strong background in mathematics and science are recommended for success in this program. 2-Hour block scheduling allows for additional hands-on time in the automotive lab. Instruction meets NATEF Automotive Maintenance and Light Repair standards.

### **107213/207213 Automotive Technology 3 (Troy High)**

### **107413/207413 Automotive Technology 4 (Troy High)**

*Grades 11-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Automotive Technology 2 C or better and Teacher Approval.*

**Course satisfies 1 credit of math related graduation requirement during the 12th grade year.**

This course will provide a more complete overview of the internal combustion engine including emission systems, fuel injection, air and pollution control. The transmission, axle, brakes (including anti-lock brakes), and both front-end and four-wheel alignment will be studied. Hands-on experience with vehicles will be an integral part of this class.

### **107163/207163 Woodworking Design & Fabrication 1**

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: None.*

**Course satisfies 1 credit of math related graduation requirement during the 12th grade year.**

**Students completing a program of study in CTE can exchange those credits earned on a 1:1 basis for required credits in science, world language, or satisfy their Algebra 2 requirement by completing a CTE program with Algebra 2 content embedded in the course.**

Students and parents interested in this opportunity should contact a school counselor for information about all options. The counselor will guide and parents through all options and coordinate the completion of the CTE enrollment form documenting any credit exchange.

**Wood working Design & Fabrication 1 is a class designed to introduce students to the designing, drawing, and manufacturing of both required and personal projects using CAD software, hand and power tools, power machines, and automation (CNC and 3D printing). Students will learn how to use and safely operate hand tools, power tools, and machine power tools. Projects will be manufactured according to specific drawings and plans provided by the instructor as well as drawings and plans designed by the students.**

### **107173/207173 Woodworking Design & Fabrication 2**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Woodworking Design 1.*

**Course satisfies 1 credit of math related graduation requirement during the 12th grade year.**

**Students completing a program of study in CTE can exchange those credits earned on a 1:1 basis for required credits in science, world language, or satisfy their Algebra 2 requirement by completing a CTE program with Algebra 2 content embedded in the course.**

Students and parents interested in this opportunity should contact a school counselor for information about all options. The counselor will guide students and parents through all options and coordinate the completion of the CTE enrollment form documenting any credit exchange.

*Woodworking Design & Fabrication 2 is a continuation of Woodworking Design & Fabrication 1. There will be emphasis on CAD design, CNC design and production. Students will be manufacturing advanced projects in furniture and cabinet making. Projects will be manufactured according to specific drawings and plans provided by the instructor as well as drawings and plans designed by the students.*

### **107183/207183 Woodworking Design & Fabrication 3**

*Grades 11-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Woodworking Design 2.*

**Course satisfies 1 credit of math related graduation requirement during the 12th grade year.**

**Students completing a program of study in CTE can exchange those credits earned on a 1:1 basis for required credits in science, world language, or satisfy their Algebra 2 requirement by completing a CTE program with Algebra 2 content embedded in the course.**

Students and parents interested in this opportunity should contact a school counselor for information about all options. The counselor will guide students and parents through all options and coordinate the completion of the CTE enrollment form documenting any credit exchange.

This course is designed to continue the knowledge of the Woodworking Design and Fabrication curriculum with a heavy influence from industry.

**108713/208713 Mechatronics 1**

Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: None.

- *Course satisfies ½ credit of math related graduation requirement per semester during the 12th grade year.*
- *Students completing a program of study in CTE can exchange those credits earned on a 1:1 basis for required credits in science, world language, or satisfy their Algebra 2 requirement by completing a CTE program with Algebra 2 content embedded in the course.*
- Students and parents interested in this opportunity should contact a school counselor for information about all options. The counselor will guide students and parents through all options and coordinate the completion of the CTE enrollment form documenting any credit exchange.

This class will use various computer programs to design (CADD) and program (CAM) modernized industrialized technologies such as CNC and rapid prototyping (3d printing). Students will learn how industrialized robots are programmed and controlled. Mathematics, science, and technology concepts and processes will be used to solve problems in projects involving design and/or production. Students will also learn about various fasteners used in industry as well as electronics, schematic designs, gears, motors, and fluid power.

*\*Strongly recommend it for students who are interested in Robotics Club.*

**108723/208723 Mechatronics 2**

Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Mechatronics 1

*Course satisfies ½ credit of math related graduation requirement per semester during the 12th grade year.*

*Students completing a program of study in CTE can exchange those credits earned on a 1:1 basis for required credits in science, world language, or satisfy their Algebra 2 requirement by completing a CTE program with Algebra 2 content embedded in the course.*

Students and parents interested in this opportunity should contact a school counselor for information about all options. The counselor will guide students and parents through all options and coordinate the completion of the CTE enrollment form documenting any credit exchange.

This hands on, inquiry-based course allows students opportunities to incorporate Science, Technology, Engineering, and Math into projects with real world applications. Students will learn how electrical motors, control systems, and sensors work together.

**007072 Architectural Drawing 1**

Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.

*Course satisfies ½ credit of math related graduation requirement during the 12th grade year.*

*Students completing a program of study in CTE can exchange those credits earned on a 1:1 basis for required credits in science, world language, or satisfy their Algebra 2 requirement by completing a CTE program with Algebra 2 content embedded in the course.*

Students and parents interested in this opportunity should contact a school counselor for information about all options. The counselor will guide students and parents through all options and coordinate the completion of the CTE enrollment form documenting any credit exchange.

This is an introductory course for students to learn the basics of Architecture and Design. Emphasis will be placed on room designing for the sleeping area, living area, and service area of a home. Detail drawings will be created for each room followed by drawing a basic floor plan with both exterior and interior elevations. Students will leave the class with a basic set of drawings and a model.

**007082 Architectural Drawing 2**

Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: Architectural Drawing 1.

*Course satisfies ½ credit of math related graduation requirement during the 12th grade year.*

*Students completing a program of study in CTE can exchange those credits earned on a 1:1 basis for required credits in science, world language, or satisfy their Algebra 2 requirement by completing a CTE program with Algebra 2 content embedded in the course.*

Students and parents interested in this opportunity should contact a school counselor for information about all options. The counselor will guide students and parents through all options and coordinate the completion of the CTE enrollment form documenting any credit exchange.

This course is a continuation of Architectural Drawing 1 with emphasis placed on a complete set of house plans and the construction of Architectural models. Students will complete a set of working drawings of their own house design including plot plan, foundation plan, floor plan, exterior and interior elevations, details, sections, electrical plans, and plumbing plans.

**007122 Game Design 1 (Athens)**

Grades 9-12. 1 semester. ½ credit. Retake. Prerequisite: None.

The Video Game Design program is an appropriate starting point for students who seek a professional career as a game developer. It is also well- suited for enthusiastic amateurs and gamers looking to explore this field as a recreational endeavor. The curriculum will focus on all aspects of game design and development primarily using Java.

**007102 Game Design 2 (Athens)**

Grades 9-12. 1 semester. ½ credit. Retake. Prerequisite: Game Design 1.

This course will enhance and further develop skills gained in Game Design 1. Additionally, students will also understand what a mobile application is, learn about various mobile platforms, understand how to think like a programmer, and learn the basic tools and skills needed for programming mobile applications.

## **Life Skills Department**

### **007242 Parenthood/Child Development 1**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

*This class is eligible for advanced placement credit at Oakland Community College.*

The rewards and responsibilities of parenthood are tremendous; both will be explored in this course. This one semester course provides students a background in basic child development principles in order to increase understanding of how humans develop and grow physically, socially, intellectually, and emotionally from birth to the first year. Students will be introduced to basic childcare and parenting knowledge as well as skills which students can use now and in the future. Note: This elective semester course will contain family planning instruction (birth control methods).

### **007262 Parenthood/Child Development 2**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: Parenthood/Child Development I.*

*This class is eligible for advanced placement credit at Oakland Community College.*

Child development 2 is a one semester course that focuses on child development and guidance, including the physical, social, emotional, and intellectual development of preschool -elementary age children. The students will have the opportunity to identify, plan, and demonstrate developmentally appropriate activities to use when working with preschool-elementary age children. The class provides a foundation for the future study for students interested in working with children in future career areas.

### **009862 Essential Skills for Adulthood**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

This course is designed to create a smooth transition from high school into the “real world”, otherwise known as Adulthood 101. Students will work through units of study designed to create a foundation of knowledge and skills that will better equip them to handle obstacles in adulthood. Areas of study will include college and career preparation, employability and communication skills, basic home maintenance, healthy relationships/dating, budgeting and problem solving. In addition, students will learn about ways to pay for college, manage stress and prepare basic meals when living on their own. They will have opportunities to attend field trips, explore high demand career fields through hands-on activities and put the skills learned in class into practice.

### **007272 Personal Money Management**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

Course satisfies ½ credit of math related graduation requirement during the 12th grade year.

Personal Money Management presents essential knowledge and skills to make informed decisions about real world financial issues. Students taking *Personal Money Management* will demonstrate knowledge of money management, including banking, saving and budgeting; consumer behaviors-values, decision making, purchases of big-ticket items-transportation and housing. Students will learn financial responsibility through participation in a simulation of a real-world economic activity in classroom economy. They will earn a paycheck and experience bill paying. Ex: the rent of their desks. By the end of the course the students will understand how to make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success.

### **007292 Foods and Culture (Troy High)**

*Grades 9-12. 1 Semester. ½ Credit. No Retake. Prerequisite: None.*

Foods and Culture is a laboratory-based class where students learn basic food preparation skills and terminology while becoming familiar with the tools of the kitchen and their proper use. We will discuss food substitutes to benefit health as well as have the opportunity to utilize practical shopping skills for food preparation on a budget. In this class students will learn and practice kitchen safety, accurate measuring techniques and follow food safety guidelines. They will have opportunities to attend field trips, explore working with a team through hands-on activities and put the skills learned in class into practice.

### **007282 Foods 2 (Troy High)**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: Foods and Culture.*

This class will build upon the skills learned in *Foods and Culture*. The students will learn advanced food preparation skills enabling them to prepare more challenging recipes. Students will be exposed to different equipment, how to use it, and how to care for it. Students will become more comfortable with planning meals and meeting specific dietary needs. More exposure to possible foods-related careers will occur in this class.

### **007332 Fashion Design 1 (Troy High)**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

Students will have an opportunity to study and practice the principles of line and design. In this course, basic sewing skills, equipment and terms will be covered. Students will also use the computer to aid in the fashion design process to create an original garment. Tye-dye will be used to explore color. Texture and Fabric performance will be studied as they relate to clothing construction. There will be an opportunity for those interested to model and/or display their garments. This course focuses on the fundamentals of sewing.

**007342 Fashion Design 2 (Troy High)**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: Fashion Design 1.*

*Fashion Design 2* will allow the student to design and tackle some more challenging techniques. The goal is for a more polished look with emphasis on pattern layout, types of appropriate fabric for the project and improving your skills on the sewing machine. An original design will be created using computer software. This class will be entirely lab experience.

**007372 Stitchery (Troy High)**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

Stitchery is geared at educating students on a variety of textures with yarn. This course enables students to develop technical and conceptual skills relating to a range of hand stitching processes. Throughout the course, students will develop the knowledge and skills of needlepoint, embroidery, cross-stitch, felting, knitting, crocheting, and knitting.

**007283 Interior Design/CAD (Troy High)**

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: None.*

Course satisfies ½ credit of math related graduation requirement during the 12th grade year.

This class is designed to help the student learn the basics of architecture and space planning and interior decorating. Students will learn the elements of design necessary to design and decorate an office, residential and industrial spaces. Students will use Auto CAD as a tool for design.

# English Department

*\* Please note that not all courses listed are offered each year.*

## **101043/201043 English 9**

*2 semesters. 1 credit. ½ credit per semester.*

**This English course is required for all 9th grade students.** Completion of both 9th and 10th grade foundational English courses will prepare students to engage with future English courses, including Advanced Placement courses, should they elect to do so. This course offers a rigorous curriculum and includes in-depth study and analysis of multiple genres of reading and a variety of modes of writing and speaking in a class structure that allows students the opportunity to practice skills and strategies daily. Drafts and revisions based on teacher modeling and feedback support literary analysis, argumentative, and narrative writing. Class structure, including dedicated in-class time for reading, writing, and speaking, choice, and frequent timely feedback will foster growth in students' reading, writing, and speaking skills. **Summer reading is required.**

## **101053/201053 English 10**

*2 semesters. 1 credit. ½ credit per semester.*

**This English course is required for all 10th grade students.** Completion of both 9th and 10th grade foundational English courses will prepare students to engage with future English courses, including Advanced Placement courses, should they elect to do so. This course offers a rigorous curriculum that builds upon the foundational skills established in English 9. Students expand critical thinking skills using multimodal texts and analytical lenses. Students engage in a number of real-world writing tasks to develop voice and argumentation skills, with a specific consideration for purpose and audience. In addition to reading whole-class selections and participating in book clubs, students select reading goals to develop an independent reading plan. **Summer reading is required.**

## **000821 11 English Literature/Composition**

*1 semester. ½ credit. No Retake. Prerequisite: 10 English Lit/Comp 1&2.*

This course is designed to develop students' literacy skills through the study of American Literature. This class is designed as a survey of major American writers, the themes implicit in their works, and how the historical events of the time affect the literature of the period. Students trace the connections between the literary eras, as well as analyze the literature from each era through various writings. Critical and analytical essays, persuasive writing, and research-based activities of the American works will be bolstered through a study of language, persuasive devices, rhetorical techniques and academic vocabulary. Independent reading and active participation in group discourse are expectations of the class. The literary focus of this course provides the necessary background to meet the demands of 12 English Lit/Comp. Students must successfully complete sophomore year English to enroll. **Summer reading is required.**

## **100443 11 English AP 1**

*1 semester. ½ credit. No Retake. Prerequisite: English 10*

This class is for students who wish to begin their preparation for the AP Language and Composition Examination through a deep study of rhetoric and the world around them. Students will improve their writing through three major skills: rhetorical analysis, argument, and synthesis. Throughout first semester, students will apply these writing skills to a study of American Literature. Students will also study syntactical elements of sentences to help them develop their understanding of grammar and how to vary their own sentence structure as a writer.

**Summer reading is required.**

## **200443 11 English AP 2**

*1 semester. ½ credit. No Retake. Prerequisite: 11 English AP 1*

This course is an elective continuation of 11 English AP 1. In this course students will read a variety of nonfiction texts and continue to analyze elements of rhetoric and the rhetorical situation: identifying author's purpose, analyzing rhetorical choices, considering the relationship between the speaker and the audience, and more. Additional instruction in argumentation will teach the skills of synthesizing, paraphrasing and citing written secondary source material, including images, graphs, and photographs. The researched argumentative essay provides students the opportunity to sort through disparate interpretations as independent analytical thinkers and writers. The AP Language and Composition Examination is the logical culmination of this course. **Summer reading is required.**

## **100113/200113 12 English Lit/Comp**

*1 semester. ½ credit per semester. Prerequisite: 11 English Lit/Composition.*

Senior students will hone their reading skills through independent reading, class study of world literature (both classic and contemporary), a focus on current nonfiction pieces, short stories, and other text sets. These works will increase students' awareness of the timeless issues of the world and expose students to multiple perspectives and genres to help them understand the commonality of the human experience. Expository writing skills will be bolstered by frequent interaction with mentor texts, a study of author's craft, rhetorical features, language and syntax, and academic vocabulary. Types of writing include synthesis, research with an annotated bibliography, and persuasive exposition. Various literary genres and small and large group discussion protocols will be used to enhance critical thinking, analysis, synthesis, and presentation skills. Students must successfully complete junior year English to enroll. **Summer reading is required.**

## **100453/200453 12 English AP 1 & 2**

*1 semester per course. ½ credit per semester. Prerequisite: 11 English AP 1 & 2*

Designed for seniors who are passionate about reading and writing and want to further their critical thinking, synthesizing, and composition skills. This course which is built upon a foundation of a large volume of reading and writing, emphasizes the following areas of study: analysis and composition of essays; the study of fiction and poetry; writing a college level research paper; reading a survey of world literature, including several novels. The AP Literature and Composition Examination is the logical culmination of this course, and students are prepared for and encouraged to take the AP exam in May.

**Summer reading is required.**

**000182 Creative Writing 1**

*Grades 10-12. 1 semester. ½ credit. Prerequisite: None*

**\*\*Meets NCAA requirements.**

This course is designed as an English elective for students in grades 10-12. Students will develop a creative approach to writing by drafting, conferencing, editing, and completing a wide range of writing assignments. Mini lessons will be provided to help students prepare for longer writing pieces. Some of the genres which may be explored include poetry, the short story, and scripts. Students will be expected to write a great deal and to share, critique, and analyze each other's work. Students must successfully complete freshmen year English to enroll.

**000192 Creative Writing 2**

*Grades 10-12. 1 semester. ½ credit. Prerequisite: Creative Writing 1*

**\*\*Meets NCAA requirements.**

This class is designed for those students who wish to continue their exploration of creative writing to further develop their talents and abilities. Some of the genres which may be explored include poetry, essays, flash fiction, and short stories. Students will continue to be expected to write a great deal and to share, critique, and analyze each other's work. Independent projects will also be utilized so students have the opportunity to delve into areas in which they have the most interest. Students must successfully complete freshmen year English and Creative Writing 1 to enroll.

**000232 Classical Mythology and Drama**

*Grades 10-12. 1 semester. ½ credit. Prerequisite: None*

**\*\*Meets NCAA requirements.**

This course is designed as an English elective for students in grades 10-12. The myths and drama of ancient Greece provide the basics of this enrichment course. An exploration of how the myths impact our own culture as well as the past will be part of the course. Dramatic studies will include the origin of plays as an art form. Creative, critical, and analytical writing assignment will focus on the literature of the course. Any student planning to attend college will find the content of this class helpful background material in college courses. Students must successfully complete freshmen year English to enroll.

**000212 Film and Literature**

*Grades 10-12. 1 semester. ½ credit. Prerequisite: None*

This course is designed as an English elective for students in grades 10-12. The focus of the course will be on the study of film vocabulary, film genre, film-making techniques, film history, film as an art form, and film as a style of communication in our society. Assignments will focus on film viewing, outside reading, and research-based critical and analytical writing assignments. Through reading about and watching film, critical viewing skills will be developed, as will writing and discussion skills about the content and genre of study. Students must successfully complete freshmen year English to enroll.

**000312 Literature of Suspense**

*Grades 10-12. 1 semester. ½ credit.*

**\*\*Meets NCAA requirements.**

This course is designed as an English elective for students in grades 10-12 who are fascinated with the mysterious and the "unexplained." Students will study ghost and horror stories and investigate the lives of super-sleuths such as Sherlock Holmes and Agatha Christie. This course will try to explain the supernatural and unexplained phenomena of our world. Periodic tests on the material studied as well as critical and analytical writing assignments will be given. Students must successfully complete freshmen year English to enroll.

**000382 Science Fiction**

*Grades 10-12. 1 semester. ½ credit.*

**\*\*Meets NCAA requirements.**

This course is designed as an English elective for students in grades 10-12 who enjoy speculative literature. Discover a new awareness of the past, present and future through an overview of science fiction literature. Students will read several novels, see films, and present a final project. Periodic tests on the materials studied as well as analytical and critical writing assignments will be given. Students must successfully complete freshmen year English to enroll.

**000132 Voices in Literature**

*Grades 11-12. 1 semester. ½ credit.*

This course is an intensive reading elective designed for juniors and seniors who love to read or are seeking to broaden their exposure to literature. The novels in this course give voice to writers from a variety of culture who detail vastly different life experiences. Reading will occur both in and out of the classroom. Discussion, analysis, and writing will also constitute class time. Critical reading skills will be developed, as will writing styles and discussion skills. Students must successfully complete sophomore year English to enroll.

**000322 Sports Literature**

*Grades 10-12. 1 semester. ½ credit.*

**\*\*Meets NCAA requirements.**

Sports Literature is designed as an English elective for students in grades 10-12 who want to approach reading and writing through the lens of sports. Students will examine texts about all sports, investigating the different ways that sports are a reflection of our lives and of our society. Students will read several novels and articles and view several films. Writing will be frequent. Social media like blogging, Twitter, and other platforms may be utilized to facilitate both writing and discussion. Students must successfully complete freshmen year English to enroll.

**000352 Personal Communication**

*Grades 9-12. 1 semester. ½ credit.*

This is an English elective that involves students in the study of communication. In this interactive class, students will explore interpersonal communication, nonverbal/verbal communication, listening and speaking skills as well as other aspects of communication including perception, group communication, leadership, and self-concept. This class combines the psychology of communication with the practice of a variety of communication skills. Students will participate in small and large group activities as well as individual presentations of the various skills. Students may also seek out opportunities in the community to further their skills in these communication areas. Students interested in business, law, health occupations, education or any profession that is people centered, will benefit.

**000392 Speech 1**

*Grades 9-12. 1 semester. ½ credit.*

**\*\*Meets NCAA requirements.**

The class is designed to provide an opportunity for students to become comfortable in a variety of speaking situations by developing speaking and discussion techniques. The students will participate in small group and large group discussion. They will also gain experience in informative, sales, and persuasive speaking styles. Students will hone their individual speaking skills and increase their comfort level with presenting information to groups of people. Highly recommended for students interested in careers in law, politics, business, education, broadcasting and leadership.

**000142 Speech 2**

*Grades 10-12. 1 semester. ½ credit.*

**\*\*Meets NCAA requirements.**

This course is designed to further students' growth and development from Speech 1. Students' assignments will be based on individual student interests and their strengths and weaknesses to further develop them as a speaker. Students will have an opportunity to explore a variety of speaking styles including Power Point presentations, original oratory, persuasive, and informative speaking. Speech outlines will be assigned on the material being studied. Emphasis is on the individual's strengths and weaknesses, delivery style, and a concentrated study to fine tune speaker delivery. Students must successfully complete Speech 1 to enroll. This course may be taken up to two times.

**000492 Debate 1**

*Grades 10-12. 1 semester. ½ credit. Prerequisite: None*

**\*\*Meets NCAA requirements.**

This course will provide an opportunity to learn a variety of argumentation techniques and to practice the art of debate in a variety of styles including legislative and cross examination. Critical and analytical research will be taught to further hone skills necessary for argumentation and debate. This class is highly recommended for students interested in law, politics, sales, business, current events or just those who love to share their opinions. Students must successfully complete freshman year English to enroll.

**000502 Debate 2**

*Grades 10-12. 1 semester. ½ credit. Prerequisite: Debate 1*

**\*\*Meets NCAA requirements.**

This course will provide an opportunity for improving an individual's ability to present formal debate. The subject matter will be the national high school debate topic for the year. Students will be required to do extensive research on the debate topic as well as participate in formal debate, either in class or in league competition. Researched topics will also be written in critical and analytical papers. Students must successfully complete Debate 1 to enroll. Participation on the Debate Team is recommended. Debate Team members are expected to take this class. This course may be taken up to two times.

**000242 Modern Shakespeare**

*Grades 10-12. 1 semester. ½ credit.*

This course is designed as an English elective for students in grades 10-12 who are interested in the exploration of Shakespearean drama beyond what is taught in the regular curriculum. The course will explore the ways in which Shakespeare has left a lasting effect on our culture and media today. All plays will be read in conjunction with a quality film or theatre version of the play so that we may experience the work as it was meant to be experienced. Periodic tests on the material studied, critical and analytical writing assignments, as well as creative projects will be given throughout. Students must successfully complete freshmen year English to enroll.

**100273/200273 Writing for Publication: Journalism**

*Grades 9-12. 2 semesters. ½ credit per semester.*

This course is designed for the student who likes to write. Students will be taught the techniques of news writing and will be expected to research, report, and write news, feature, interview, review, and editorial articles. Students will arrange and conduct interviews inside and outside of school. They will also become proficient with copy editing symbols, lead writing, and headlines. This course explores the dynamics behind the expression of "power of the press" and examines press history, rights, and responsibilities. This course will briefly cover advertising, photojournalism, and desktop publishing.

**000333 Writing for Publication: Newspaper**

*Grades 10-12. 2 semesters. ½ credit per semester. 3 Retakes*

This course is designed to involve the student in all aspects of producing a newspaper/news magazine. The class will be organized as a newspaper staff. Students are responsible for reporting, writing and designing layout, and using desktop publishing for articles to be published in the school paper. They are also responsible for selling and designing advertising which appears in the publication. Accuracy in journalistic writing skills will be stressed. Students must receive instructor approval to enroll. This course may be taken up to three times.



**000343 Writing for Publication: Yearbook**

*Grades 10-12. 2 semesters. ½ credit per semester. 3 Retakes. -*

This course is designed to involve the student in all aspects of producing a concise, historical yearbook. Students are responsible for reporting, writing, and designing layouts on computers. In addition, students will learn many marketable communication skills in such fields as journalism, photography, graphics, advertising, and publications. Desktop publishing will be used for creating copy to be published in the yearbook. Students will sell ads to the community and subscriptions to the student body. Accuracy in journalistic writing skills will be stressed. Students should be able to meet after school. Students must receive instructor approval to enroll. This course may be taken up to three times.

**000342 Writing for Broadcasting**

*Grades 11-12. 1 semester. ½ credit. Prerequisite: None*

This course is designed to offer juniors and seniors an introduction into various aspects of video production. Focus of the course will be on the communication process. Writing assignments focus on critical viewing skills, scripts, and storyboards. The application of these concepts is present in the programs the students produce. Students must receive English instructor approval to enroll. 10th grade students may elect this course with teacher approval if they successfully completed the Video Technology course in middle school.

**000362 Advanced Writing for Broadcasting**

*Grades 11-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: Writing for Broadcasting*

This course is designed to offer students opportunities to work with advanced techniques and equipment. Focus of the course will be on the production of television programming that is not only technically sound, but also creative and aesthetically pleasing. Writing assignments focus on critical viewing skills, scripts, and storyboards. This course will allow students to do live studio programs as well as edited productions. Students may utilize advanced post-production processes, including title animation, sound effects editing, and more. Students must complete Writing for Broadcasting and receive instructor approval to enroll. This course may be taken up to two times.

**000353 Advanced Publication Production**

*Grades 11-12. 2 semesters. ½ credit per semester. Prerequisite: Writing for Publication: Newspaper OR Yearbook*

This course is designed to allow advanced publication students to pursue their specific interests within the realms of journalism and publication production. Students will also work to create innovative web-based portfolios to curate their work. Students must complete Writing for Publication Newspaper or Yearbook and receive instructor approval to enroll. This course may be taken up to two times.

**00252 Seminar AP**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake.*

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part as a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

**002533 Research AP**

*Grades 11-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: AP Seminar.*

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

# English Language Development Department

*\* Please note that not all courses listed are offered each year.*

Initial placement in the ELD program is determined by the State of Michigan Entrance Protocol. The state requires administration of the WIDA ACCESS to all eligible students on an annual basis.

The Troy School District offers a comprehensive English Language Development program. A variety of services, including individual tutoring, English Language Arts classes, and Language Support content classes, are offered for eligible students. The following ELD and Language Support courses are offered at each high school. Please consult with your counselor or ELD Specialist before enrolling in these courses.

## **ENGLISH LANGUAGE DEVELOPMENT**

### **101013/201013     Beginner ELD**

*Grades 9-12. 2 semesters. ½ elective credit per semester.*

For students who are newest to the United States and/or in earliest stages of learning English as a new language. This course will assist students in acquiring the basic skills of listening, speaking, reading, writing, representing, and viewing in English. Immediate needs of communication and acculturational are met in a setting that nurtures and refines beginning language acquisition. Social and instructional language are a focus in the course. This course is scheduled in collaboration with your ELD Specialist. *Students may enroll concurrently in EL Tutorial and Language Support Content Classes.*

## **ENGLISH LANGUAGE DEVELOPMENT LANGUAGE ARTS**

### **101023/201023     Intermediate ELD**

*Grades 9-12. 2 semesters. ½ English credit per semester.*

Intermediate ELD is the language arts class for students who are intermediate English Learners. Vocabulary building and refinement of grammar are stressed while students explore various genres of literature. Students will use the writing process to develop increasingly complex forms of written response. Reading comprehension and overall fluency in both expressive and interpretive language skills are addressed. This course is scheduled in collaboration with your ELD Specialist. *Students may enroll concurrently in EL Tutorial and Language Support Content Classes.*

### **101033/201033     Advanced ELD**

*Grades 9-12. 2 semesters. ½ English credit per semester.*

Advanced ELD is the language arts class for students who are advanced English Learners. Vocabulary building and refinement of grammar are stressed while students explore various genres of literature. Students will use the writing process to develop increasingly complex forms of written response. Reading comprehension and overall fluency in both expressive and interpretive language skills are addressed. This course is scheduled in collaboration with your ELD Specialist.

### **101113/201113     Bridges to Lit/Comp for ELs**

*Grades 9-12. 2 semesters. ½ English credit per semester.*

Bridges to English Literature & Composition for English Learners: This course is designed to bridge students between the ELD program and general education English Lit/Comp course offerings. This course will increase students' knowledge of academic reading, writing, listening, speaking, and critical thinking through the study of text sets and independent reading. The course will mirror general education Lit/Comp learning experiences with an emphasis on literary analysis and writing skills necessary for students preparing for general education English Lit/Comp courses. This course is scheduled in collaboration with your ELD Specialist.

## **ENGLISH LANGUAGE DEVELOPMENT CONTENT AND LANGUAGE SUPPORT**

### **101103/201103     EL Tutorial**

*Grades 9-12. 2 semesters. ½ elective credit per semester. Retakes allowed. Graded pass/fail.*

This class helps students who are English Learners to be more successful in their academic classes. Students work on individual assigned work with tutorial assistance. Emphasis is placed on improving English language development while gaining the necessary language to complete assignments and effectively access subject area information. Students become familiar with note taking, test preparation, personal organization, and time management. This course is scheduled in collaboration with your ELD Specialist.

## **LANGUAGE SUPPORT CONTENT CLASSES \***

These courses are offered on a rotating basis. Please check with your counselor for availability at your school next year. ½ credit per semester. Students will learn grade level content standards for the course alongside Language Development goals of listening, speaking, reading, writing, representing, and viewing. This course is scheduled in collaboration with your ELD Specialist and content area teacher(s).

<b>104703/204703</b>	<b>LS Biology</b>
<b>004322</b>	<b>LS Chemistry</b>
<b>004313</b>	<b>LS Physics</b>
<b>002272</b>	<b>LS World History/Geography 1</b>
<b>002282</b>	<b>LS World History/Geography 2</b>
<b>102703</b>	<b>LS American History/Geography 1</b>
<b>202703</b>	<b>LS American History/Geography 2</b>
<b>002092</b>	<b>LS Government/Civics</b>
<b>002422</b>	<b>LS Economics</b>

# Fine Arts Department

*\* Please note that not all courses listed are offered each year.*

## Visual Arts

### **006212 Multi-Media Art**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

This course is designed to develop basic skills in two-dimensional and three-dimensional design. Students will experiment with a variety of materials and techniques; including, but not limited to drawing, painting, sculpture/ceramics and calligraphy. This course focuses on the understanding and implementation of art terminology, materials, processes and the elements and principles of art and design.

### **006201 Mindful Art**

*Grades 9-12. 1 semester. ½ credit per semester. Retakes: 1*

Mindful Art combines mindfulness concepts with engaging art activities to encourage expression, self-awareness, and stress reduction. The class will focus on exploring personal identity, learning about and practicing stress reduction and coping skills, developing relationship skills through collaboration & community work and fostering gratitude.

### **006232 Drawing 1**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

This course is an introduction to basic drawing principles and techniques. Students will build a range of skills to develop a strong foundation in drawing. Experimentation and practice with a variety of drawing media promotes students' development of drawing abilities. Assignments will include drawing from students' personal interest, portraiture, manmade objects, natural forms, life drawing, action drawing, and perspective drawing. Feedback and critiques of student work and peers work is an important part of the growth process. Students own personal growth in drawing is emphasized, students of all skill level are welcome and will be challenged individually.

### **006243 Advanced Drawing**

*Grades 9-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: Drawing 1.*

This course is an extension of drawing principles and techniques built in drawing 1. Experimentation and practice with new mediums will expand students' breadth of skill. Color is a focus in Advanced Drawing. Students are prompted to work form their personal interest and develop concepts in their work. Feedback and critiques of student work and peers work is an important part of the growth process. Students own personal growth is emphasized, students of all skill level are welcome and will be challenged individually.

### **006252 Painting 1**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

This course is an introduction to basic painting styles and techniques and to various water-soluble painting media.

### **006263 Advanced Painting**

*Grades 9-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: Painting 1.*

This is a course designed to build on the skills developed in Painting 1, using the water-soluble media with an emphasis on more individual direction.

### **006352 Cartoons, Comics & Animation**

*Grades 9-12. 1 semester. ½ credit. No Retake.*

This course covers the basics of hand drawn cartooning along with simple animation. Students will use pen and ink, pencil and procreate to design cartoons. The art of storytelling will be explored.

### **006272 Ceramics 1**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

This course introduces forming techniques including coil, slab, and pinch, as well as approaches to glazing and firing. The course provides an overview of a wide range of hand building techniques, in addition to an introduction to wheel throwing.

### **006283 Advanced Ceramics**

*Grades 9-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: Ceramics 1.*

The aim of this course is to teach advanced work in ceramics, including the potter's wheel and all hand building methods.

### **006362 Lettering & Calligraphy**

*Grades 9-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: None.*

This course will present methods in lettering whereby skills can be perfected, and the knowledge of letter forms mastered. The development of elegant handwriting, composition, and design skills is explored through a series of applied projects, such as certificates, posters, and greeting cards.

### **106373/206373 Studio Art**

*Grades 11-12. 2 semesters. ½ credit per semester. 1 Retake.*

This course is designed to give the advanced student a chance to pursue individualized work in the medium of his/her choice. If the class is not taught, the student can be scheduled during Advanced Placement Art, per instructor. Portfolio preparation is the goal for the serious student.

### **106393/206393 Advanced Art AP**

*Grades 11-12. 2 semesters. ½ credit per semester. 1 Retake.*

This individualized study course for advanced students is designed and geared toward fulfilling the criteria used in advanced placement college testing, i.e., quality, concentration (the pursuing of a single concern in depth), and breadth (using a variety of means and materials). Portfolio.

**006222 Applied Arts and Design**

*Grades 9-12. 1 semester. ½ credit per semester. 1 Retake. Prerequisite: None*

Applied Arts and Design engages students in current trends of applied art careers through the elements of art & design, idea development, and advertising philosophy. Student will be critical thinkers, using problem solving and creativity skills to explore design challenges using traditional methods and computer-aided drawing processes.

**006422 Computer Graphics 1**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None*

This course teaches students how to use the computer as a medium in fine art. The software program, Photoshop, is taught along with art history and art theory. Students are challenged to apply Photoshop skills and other art software to create interesting works of art based on specific themes and personal interest.

**006433 Advanced Computer Graphics**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: Computer Graphics 1.*

This course covers advanced applications of Photoshop, while introducing students to the basics in Illustrator, InDesign and video editing. Students will be creating a combination of artistic works and real-world graphic design projects.

**006292 Sculpture**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None*

This course is an introduction to three-dimensional work using a variety of traditional and non-traditional materials. This may include but not limited to: clay, wood, plaster, foam, insulation foam and cardboard. Students retaking the class will be able to pursue a more individualized path and direction in their work.

**007112 Principles of Photography 1**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None*

This course is an introduction to digital photography. In this course we will explore digital photography in relation to fine art. Students will learn the basic technology necessary for the production of their artwork, as well as learning about the visual arts & how to look at and critique photography. The course covers the following photographic techniques: framing, composition, “rule of thirds”, light, texture, pattern lines, symmetry, depth of field, distance, perspective, culture, space, balance, color, and black and white photography. The students will be introduced to many works by well-known photographers. Students will be expected to demonstrate an ability to use the tools competently in the production of their artwork. The production and analysis of expressive and thoughtful artwork is the main objective of this course.

**007114 Advanced Photography**

*Grades 9-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: Principles of Photography 1*

This course is designed for the student who is motivated to learn about advanced photographic techniques, photography genres, and create personal portfolios. It will provide the student with a sound working knowledge of camera functions and the post editing process. The course covers and refines Photoshop skills and techniques. Students produce final projects suitable for presentation, web pages, home display, or contest entries.

## **Music**

**106023/206023 Campus Band**

*Grades 9-12. 2 semesters. ½ credit per semester. 3 Retakes. Prerequisite: Middle School/High School Band Director recommendation.*

This ensemble is comprised of student musicians who elect to continue playing high school-level band literature without committing to marching band. It may include students enrolled in other Troy Bands who desire to learn a secondary instrument. Members will deepen their understanding of music fundamentals while focusing on the development of group performance skills.

**106013/206013 Concert Band****106143/206143 Cadet Band (Troy High)**

*Grades 9-12. 2 semesters. ½ credit per semester. 3 Retakes. Prerequisite: Previous music participation/experience/study or director approval.*

These performing ensembles provide musicians the opportunity to explore fundamentals of group performance and interpretation of fine band literature from all periods of history. Attendance is required at all scheduled events. Marching band is organized from this ensemble. Students taking *Concert/Cadet Band* students may request a waiver for ½ of the elective physical education credit if they participate in marching band for two seasons.

**106003/206003 Symphonic Band**

*Grades. 9-12. 2 semesters. ½ credit per semester. 3 Retakes. Prerequisite: Audition with band director*

This is an accelerated course of study in which band music of the highest caliber is performed. Band members are expected to maintain exemplary musical proficiency in all related musical activities. Attendance is required at all scheduled activities. Marching band is organized from this ensemble. Students taking *Symphonic Band* students may request a waiver for ½ of the elective physical education credit if they participate in marching band for two seasons.

**106033/206033 Jazz Ensemble**

*Grades 10-12. 2 semesters. ½ credit per semester. 3 Retakes. Prerequisite: Audition with band director.*

Members must play one of the following instruments: saxophone, trumpet, trombone, piano, vibes, electric guitar, electric or acoustic bass, or drum set. All musicians will demonstrate musical literacy and maintain a high level of musical proficiency. Students will explore improvisation, theory, history, style and standard literature culminating in advanced jazz performances.

## **006042 Jazz Explorations**

*Grades 9-12. 1 semester. ½ credit per semester. 3 Retakes. Prerequisite: Previous music participation/experience/study or teacher approval.*

Jazz Explorations provides interested student musicians the opportunity to freely explore jazz – its history, theory and performance practices – through extensive listening and playing. Students will play daily, performing standard literature in various jazz styles and will also explore the fundamentals of improvisation. All musicians, regardless of instrument, are encouraged to enroll. Participation in this course also helps prepare younger musicians aspiring to audition for Jazz Ensemble.

## **006002 Color Guard**

*Grades 9-12. 1 semester. ½ credit per semester. 3 Retakes. Prerequisite: Audition with Band Director.*

Color Guard members produce a visual representation of music performed by the marching band. This is achieved via the synchronized spinning of flags as well as choreographed dance

## **006104 Percussion**

*Grades 9-12. 1 semester. ½ credit per semester. 3 Retakes. Prerequisite: Audition with band director.*

Members of this performing ensemble focus on all forms of percussion, from rudimental to orchestral techniques. Students in this percussion course study, practice and perform a wide variety of percussion literature. Emphasis is placed on the continual development of technical facility, precision and musical interpretation as it applies to both individual and group performance skills. Symphonic, Concert and Cadet percussionists are required to enroll in this course for the 1<sup>st</sup> semester of each school year.

## **106083/206083 Freshman Orchestra**

*Grade 9. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Previous orchestra experience or consent of instructor.*

*\* Due to the availability of a Freshman Orchestra at both Athens and Troy High, incoming 9th grade students are not eligible for Concert, Philharmonic (Troy High only), or Symphony Orchestra.*

This course is for all 9th grade students who play violin, viola, cello, double bass, or harp. Course study will review basic techniques, prepare students for more advanced techniques and will cover a variety of literature, Baroque to Contemporary. Ensembles will be formed to supplement the string orchestra experience. When necessary, students will be required to attend rehearsals before and after school to prepare for festivals, competitions, and concerts.

## **106073/206073 Concert Orchestra**

*Grades 10-12. 2 semesters. ½ credit per semester. 3 Retakes. Prerequisite: Previous orchestra experience or audition and consent of instructor.*

This course is open to all students who play violin, viola, cello, double bass, or harp. Course study will prepare students for more advanced techniques and will cover a variety of literature, Baroque to Contemporary. Ensembles will be formed to supplement full or string orchestra experiences. When necessary, students will be required to attend rehearsals before and after school to prepare for festivals, competitions, and concerts.

## **106063/206063 Symphony Orchestra**

*Grades 10-12. 2 semesters. ½ credit per semester. 3 Retakes. Prerequisite: Audition with orchestra director*

This course is performance-oriented and open to all students who play violin, viola, cello, double bass, or harp. It may be complemented by symphonic band to form a full orchestra. Course study will stress interpretation and execution of a variety of literature, Baroque to Contemporary. Ensembles will be formed to supplement full and string orchestra experiences.

When necessary, students will be required to attend rehearsals before and after school to prepare for festivals, competitions, and concerts.

## **106093/206093 Philharmonic Orchestra (Troy High)**

*Grade 10-12. 2 semesters. ½ credit per semester. 2 Retakes. Prerequisite: Audition with orchestra director*

This course is performance-oriented and open to all students who play violin, viola, cello, double bass, or harp. Course study will stress interpretation and execution of a variety of literature, Baroque to Contemporary. Ensembles will be formed to supplement full and string orchestra experiences.

When necessary, students will be required to attend rehearsals before and after school to prepare for festivals, competitions, and concerts. Previous orchestra experience required and consent of instructor, based on audition.

## **106113/206113 Treble Choir**

*Grades 9-12. 2 semesters. ½ credit per semester. 3 Retakes. Prerequisite: None.*

Treble Choir is designed for female voices only. In this course, students gain musical understanding through the performance of music from a variety of cultures, languages, historical periods and styles appropriate for female voices. Students learn and apply skills, including tone production, breath management, vocal technique and stage presence. Students learn and apply ensemble skills; such as listening, blending and balancing. Students demonstrate their understanding of basic music theory by learning and applying basic sight-reading skills. Students prepare for and perform in at least 3 concerts per year and some school activities. Understand that, as a member of a performance-based ensemble a large portion of your grade will be based on your attendance at daily class rehearsals, extra rehearsals, and concerts. This class may be repeated for credit.

## **106103/206103 Concert Choir**

*Grades 9-12. 2 semesters. ½ credit per semester. 3 Retakes. Prerequisite: Previous choral experience or audition.*

Concert Choir is a year-long course that builds on the skills developed and experiences gained in Treble Choir, Mixed Choir, and Middle school choir. Students continue to gain further musical understanding through the performance of music from a variety of cultures, languages, historical periods and styles. Students refine and expand skills that improve vocal quality, such as tone production, breath management, vocal technique and stage presence. Students continue to develop ensemble skills, such as listening, blending and balancing. Students prepare for and perform in different settings; such as concerts, school activities, and community events. Understand that, as a member of a performance-based ensemble a large portion of your grade will be based on your attendance at daily class rehearsals, extra rehearsals, and concerts.

### **006123 Mixed Chorus (Athens)**

*Grades 9-12. 2 semesters. ½ credit per semester. 3 Retakes. Prerequisite: None.*

Mixed Choir is an ensemble for students wishing to gain some choral experience and those wanting to build on previous middle or high school choral experience. This course teaches and expands on music and singing skills such as tone production, breath management, vocal technique and stage presence. Students will gain further musical understanding through the performance of choral repertoire. Understand that, as a member of a performance-based ensemble a large portion of your grade will be based on your attendance at daily class rehearsals, extra rehearsals, and concerts. This class may be repeated for credit.

### **006133 Madrigal Singers (Athens)**

*Grades 10-12. 2 semesters. ½ credit per semester. 2 Retakes. Prerequisite: Audition.*

This course is designed for the serious choral student interested in the performance of fine choral literature from the Renaissance to the present, specifically prepared for a small ensemble setting. Advanced musicianship, vocal training, and principles of performance will be the center of concentration. Three to five concerts are required of students plus festival participation and selected experiences. Understand that, as a member of a performance-based ensemble a large portion of your grade will be based on your attendance at daily class rehearsals, extra rehearsals, and concerts. This class may be repeated for credit.

### **006132 Chorus/Choir Accompanist**

*Grades 9-12. 1 semester. ½ credit. 7 Retakes. Prerequisite: Audition*

This is an opportunity for a student proficient in piano to accompany chorus or choir rehearsals and performances. It is a great way to build piano accompaniment ability. Accompanists need not be a chorus or choir member or have previous choral experience. Time will be given for individual practice during class.

### **106053/206053 AP Music Theory**

*Grades 10-12. 2 semesters. ½ credit per semester. 1 Retake. Prerequisite: Previous music participation/experience/study or teacher approval.*

Advanced Placement Music Theory focuses on the building blocks of music. Elements of pitch, rhythm, musical form and design are studied at length. The development of a student's ability to recognize, understand, and describe the materials and processes of music presented in a score are achieved through aural, analytical, and compositional exercises. Building on this foundation, the course progresses to include more creative tasks, such as creating a well-crafted melody, harmonization of a melody by selecting appropriate chords, and many more compositional techniques. This course will count as a math elective credit to seniors who have completed all other required math credits.

### **006501 Intro to Music Technology and Recording**

*Grades 9-12. 1 semester. ½ credit per semester. 1 Retake. Prerequisite: None.*

In a technology-driven world, this course is designed to give interested students a hands-on experience in producing and recording music. With access to state-of-the-art recording studio gear, students in this class will learn professional recording techniques and compositional methods while mixing and editing with industry standard software in that of ProTools. This course will offer real-world experience and will give students an advantage entering a college-level program and the skills needed to begin pursuing their own career in recording post high school.  
s; This class may be repeated for credit.

## **Theatre Arts**

### **000402 Theatre I**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

This is an entry-level course designed for all students. Students will be introduced to the basics of stage movement, characterization, scene development, and performance skills. Students will explore a range of strategies including thought-tracking, role-play, hot-seating, cross-cutting and still image.

### **000412 Theatre II**

*Grades 10-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: Theatre I or Teacher Approval.*

This course is designed for students who wish to develop their performance and/or production skills beyond an introductory level. In addition to exploring ways to create tension, emotion, atmosphere and meaning on stage, students will also learn about the various technical aspects of theatre including costume, props, make-up, publicity, lighting, sound and set design/construction.

### **000422 Theatre III**

*Grades 10-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: Theatre II or Teacher Approval.*

This course is designed for students who wish to develop their performance and/or production skills to an advanced level. Students will pursue an aspect of performance that interests them, i.e., acting, directing, technical work, theatre history.

### **000162 Youth Theatre**

*Grades 10-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: Theatre I or Teacher Approval.*

In this course students will work collaboratively to devise a piece of original theatre or stage a written play. Students will explore ideas through practical work, rehearse scenes, memorize lines, perform to an audience, and evaluate their own work and that of others.

# Health Department

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## **008852 Health**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

*Health 1* is designed to introduce a variety of current health concerns to today's teens. The course includes information and discussion of the following topics: healthy lifestyles, violence; sexual harassment, nutrition, fitness and weight control (including steroids/eating disorders), alcohol and drug abuse, tobacco, human sexuality, birth control, and sexually transmitted diseases (including HIV/AIDS). Textbook work, reading, videos, case studies and projects will be part of the coursework. Students will be provided the opportunity to consider and personally apply course content.

**THIS COURSE IS REQUIRED FOR GRADUATION.**

## **008573 Peer Mediation**

*Grade 12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Recommendation from Peer Mediation teacher.*

This course is designed to have students be involved in a problem-solving process whereby they will learn to guide discussions and resolutions between two conflictive parties. The students will learn the strategies and techniques on how to effectively conduct a mediation. The students will learn how to teach their peers how to handle their conflicts in a non-combative manner, using communication and listening skills. Each student is required to set up, investigate, and guide the disputants to a peaceful resolution. They will be required to complete paperwork for every mediation and follow up to make sure disputes are resolved.

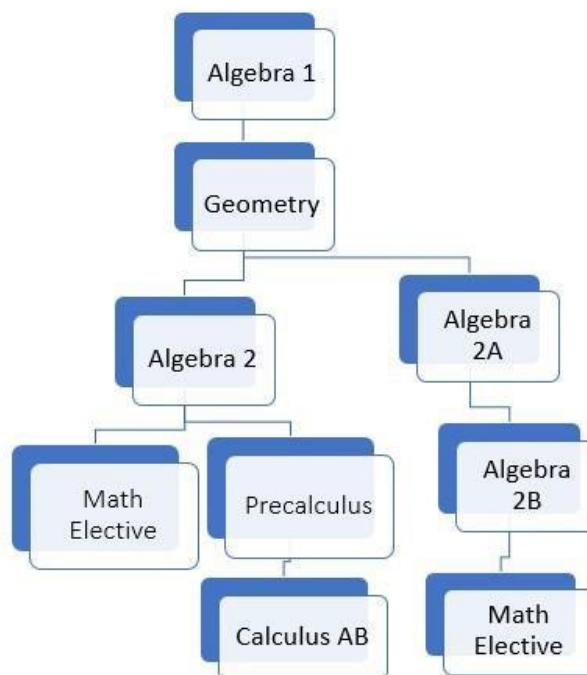


# Mathematics Department

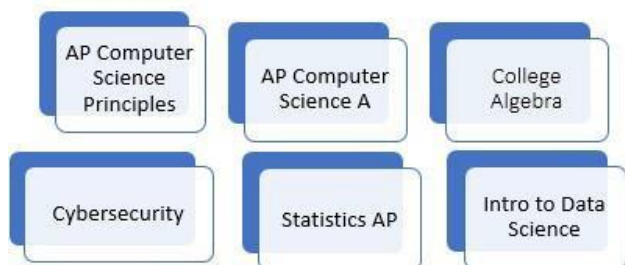
\* Please note that not all courses listed are offered each year.

- A student may elect to take AP Computer Science A, AP Computer Science Principles, and/or Cybersecurity any time after they have completed Algebra 1
- A student may elect to take AP Statistics any time after they have completed Algebra 2
- A student may elect to take Introduction to Data Science any time after they have completed Geometry

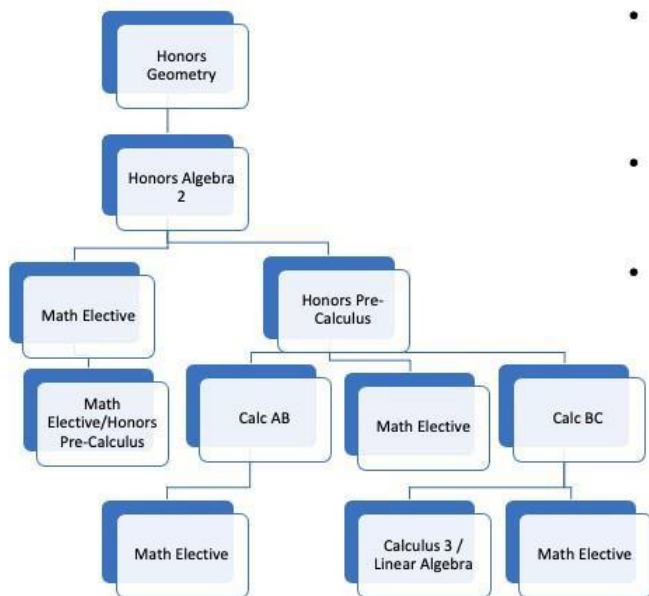
## Troy School District Math Sequence



### Math Electives



## Honors Math Sequence



- AP Statistics may be taken at any time following Algebra 2 Honors
- Computer Science classes can be taken any time
- Intro to Data Science can be taken any time after Honors Geometry

### Math Electives





# Mathematics Department

*\* Please note that not all courses listed are offered each year.*

## **103043/203043 Algebra 1**

*Grades 9-10. 2 semesters. ½ credit per semester. No retake. Prerequisite: None.*

This course focuses on modeling relationships and constraints using expressions, equations, and functions. Multiple representations of linear, absolute value, quadratic, and exponential functions will be used to develop a deep understanding of these function families. Students will solve linear equations and inequalities and systems of linear equations and inequalities using a variety of methods. Students will study equivalent forms of linear and quadratic equations to understand characteristics of their graphs and to utilize different solution pathways. This course builds foundational math skills used throughout high school. Students who successfully complete this course will be prepared for Geometry.

## **103123/203123 Intensified Algebra 1**

*Grades 9. 2 semesters. 1 credit per semester. No retake. Prerequisite: None.*

This is a double-blocked (2 hour) course and is scheduled in collaboration with the math specialist.

This course targets conceptual understanding, mathematical skills, and problem-solving and reasoning. Students are re-engaged in the curriculum through visualizations and multiple representations of mathematical ideas. Students also study metacognition to motivate and build students' positive beliefs about their academic abilities. Content includes multiple representations of linear, absolute value, quadratic, and exponential functions. Students will solve linear equations and inequalities and systems of equations and inequalities using a variety of methods. This course builds foundational math skills used throughout high school. Students who successfully complete this course will be prepared for Geometry.

## **103063/203063 Geometry**

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Algebra 1.*

This course builds upon foundational skills developed in Algebra 1 and applies those skills to geometrical concepts. This course establishes definitions and familiarizes students with the language of geometry. Postulates and theorems are introduced, and students learn to write formal proofs. Included in the course are triangles, quadrilaterals, circles, areas of plane figures, areas and volumes of solid figures, trigonometry, similarity congruence and coordinate geometry. Students who successfully complete this course will be prepared for Algebra 2.

## **103930/203930 Geometry Honors**

*Grades 9-10. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Algebra 1 or Algebra 1 Honors*

Part of the Honors math sequence, which builds on the foundational math concepts covered in Algebra I Honors. In addition to the concepts applied in Geometry, students extend their understanding by solving more complex problems. Honors classes are designed for students who have an interest in developing math skills at an accelerated pace and advanced level. Students who successfully complete this course will be prepared for Algebra 2 Honors.

## **103263/203263 Algebra 2 Part A (Equivalent to Algebra 2, Semester 1)**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Teacher recommendation, completion of Algebra 1 & Geometry.*

Course placement based on teacher recommendation. This course builds upon the concepts covered in both Algebra 1 and Geometry. Course content includes linear functions and inequalities, quadratic functions, polynomial functions, irrational and complex numbers, quadratic equations, functions, systems of equations, and rational exponents and radical functions. The pace of the class is less accelerated than Algebra 2, covering the equivalent of the first semester of Algebra 2 over two semesters. Successful completion of the course prepares students for Algebra 2 Part B.

## **103273/203273 Algebra 2 Part B (Equivalent to Algebra 2, Semester 2)**

*Grades 11-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Teacher recommendation, completion of Algebra 1, Geometry, and Algebra 2 Part A.*

This course builds on the concepts covered in Algebra 2 Part A. Course content includes exponential and logarithmic functions, statistics and data analysis, rational functions, sequences and series, trigonometry, probability and statistics, and combinatorics. The course also includes a study of trigonometry including functions, circle and triangle trigonometry, trigonometric applications, and logarithms. The pace of the class is less accelerated than Algebra 2, covering the equivalent of the second semester of Algebra 2 over two semesters. Successful completion of Algebra 2 Part A and Algebra 2 Part B is equivalent to the successful completion of a full course of Algebra 2.

## **103093/203093 Algebra 2**

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Geometry*

This course builds upon the concepts covered in both Algebra 1 and Geometry. Content includes the real number system, equations and inequalities, graphing, quadratic equations, functions, systems of equations, arithmetic and geometric sequences and series, operations with polynomials, powers, roots, irrational and complex numbers, radicals, exponentials and logarithms, rational expressions, introduction to Trigonometry and Statistics. Students who successfully complete this course are prepared for Precalculus.

## **103183/203183 Algebra 2 Honors**

*Grades 9-11. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Geometry or Geometry Honors*

This course builds upon the concepts covered in both Algebra 1 Honors and Geometry Honors. In addition to the concepts applied in Algebra 2, students extend their understanding by solving more complex problems. Honors classes are designed for students who have an interest in developing math skills at an accelerated pace and advanced level. Students who successfully complete this course will be prepared for Precalculus Honors.

## **103233/203233 Precalculus**

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Algebra 2*

This course builds upon the concepts covered in Algebra 2. Content includes solving trigonometry equations, simplifying trigonometry expressions, trigonometry identity proofs, graphing trigonometry functions, polar coordinates and study of functions and graphs. This course also includes exponents and logarithms, vectors and determinants, matrices, sequences and series, and limits. Students who successfully complete this course are prepared for Calculus AB AP.

**103253/203253 Precalculus Honors**

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Algebra 2 or Algebra 2 Honors*

This course builds upon the concepts covered in Algebra 2 Honors. In addition to the concepts applied in Precalculus, students extend their understanding by solving more complex problems and derivatives. Honors classes are designed for students who have an interest in developing math skills at an accelerated pace and advanced level. Students who successfully complete this course will be prepared for Calculus BC AP.

**103023/203023 College Algebra**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Algebra 2*

This is a course for students that have completed Algebra 2, but are still developing the mastery of content that is required for success in Precalculus. It is a year-long course made up of solving different types of equations and inequalities that include polynomial, quadratic, exponential, logarithmic, and rational in more depth. The second semester explores sequences and series, matrix operations and applications, conics, trigonometric applications, as well as an introduction to statistics. Students who successfully complete this course are prepared for Precalculus.

**103173/203173 Calculus AB AP**

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Precalculus or Precalculus Honors*

This course builds upon the concepts covered in Precalculus. Calculus AB AP is an advanced placement course designed for students with a very strong aptitude for mathematics. An Advanced Placement test is made available to place out of one semester of college calculus. The course includes limits, and differential and integral calculus with special emphasis on applications. *\*Students should have a working knowledge of the graphing calculator to include graphing with arbitrary windows and finding zeroes of a function.*

**103203/203203 Calculus BC AP**

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Precalculus Honors*

This course builds upon the concepts covered in Precalculus Honors. Calculus BC AP is a full-year course that includes both differential and integral calculus. It includes all topics covered in Calculus AB AP plus additional topics including sequences and series, polar and parametric functions. It is expected that students take the AP Calculus test and attempt to place out of two semesters of college calculus. *\*Students should have a working knowledge of the graphing calculator to include graphing with arbitrary windows and finding zeroes of a function.*

**103213/203213 Statistics AP**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Algebra 2*

This course builds upon concepts and requires a strong mastery of skills covered in Algebra 2. Statistics AP is a one-year Advanced Placement course for students who wish to complete the equivalent of a one-semester, non-calculus-based college course in statistics. Students will be exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns using probability and simulations, and statistical inference, as they prepare for the advanced placement exam. Computers and graphing calculators will be used as statistical tools. Students are encouraged to take the AP exam.

**003212 Calculus 3 (Dual Enrollment/Lawrence Tech)**

*Grades 11-12. 1 semester. ½ credit. No Retake. Prerequisite: AP Calculus BC*

This course builds upon the concepts mastered in Calculus BC AP. Content includes polar coordinates, three-dimensional analytic geometry, vectors, vector valued functions, motions in space, functions of several variables, partial differentiation, multiple integrals, integration in vector fields.

**003222 Linear Algebra (Dual Enrollment/Lawrence Tech)**

*Grades 11-12. 1 semester. ½ credit. No Retake. Prerequisite: Calculus 3*

This course follows the Calculus 3 course sequence. Topics include systems of linear equations, matrices, determinants, eigenvalues, eigenvectors, finite-dimensional vector spaces, linear transformations and their matrices, Gram-Schmidt orthogonalization, inner product spaces.

**103163/203163 AP Computer Science A**

*Grades 9-12. 2 Semesters. ½ credit per semester. Prerequisite: Algebra 1*

No programming experience is required, but this course requires successful completion of Algebra 1 and a strong foundation in logical thinking and problem solving. Students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. AP Computer Science A teaches object-oriented programming using the Java language and is meant to be the equivalent of a first semester, college-level course in computer science. It will emphasize problem solving and algorithm development and use hands-on experiences and examples so that students can apply programming tools and solve complex problems. This course will prepare students for the end-of-course AP Computer Science A Exam.

**103373/203373 Computer Science Principles AP**

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Algebra I*

This course requires successful completion of Algebra 1 and a strong foundation in logical thinking and problem solving. AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cyber security concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

**003172 (THS) 103172/203172 (AHS) Cybersecurity**

*Grades 9-12. Prerequisite: None.*

This course requires a strong foundation in logical thinking and problem solving. Students will learn foundational cybersecurity topics. This course introduces students to cyber by blending networking fundamentals, software security, basics of cryptography, and elements of liberal arts. Topics addressed are ethics and Society, security principles, classic cryptography, modern cryptography, malicious software, physical security, and web security. Students will learn about the opportunities, threats, responsibilities, and legal constraints associated with operating in cyberspace. Cyber literacy lays a foundation for further exploration into STEM and cyber related topics.

**103383/203383 Introduction to Data Science**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: Geometry.*

Introduction to Data Science (IDS) is designed to introduce students to an exciting field that combines data analysis, computing, and mathematics. Students will explore the world of data and use the Pyret programming platform to explore, manipulate, visualize, and analyze datasets. Through individual and collaborative projects, they will develop essential programming and statistical skills to derive meaningful insights from real-world datasets, developing a strong foundation in data science concepts. The course emphasizes critical thinking and data-driven decision making and prepares students for future academic and professional challenges in our data-driven world.

# Media Department

*\*Please note that not all courses listed are offered each year.*

**008492 Media Center Services**

*Grades 9-12. 1 semester. ½ credit. 1 Retake. Prerequisite: Approval of media specialist.* This course is designed to introduce the student to print and non-print materials, the organization of the media center, and the use of databases. Students will help maintain and organize library equipment and materials. They will also assist staff and students in locating and checking out materials. To be successful in this course, students must have consistent attendance and be active participants.

**008502 Media Center Techniques**

*Grades 10-12. 1 semester. ½ credit. 3 Retakes. Prerequisite: Approval of media specialist and successful completion of Media Center Services.* This course is designed to continue instruction on print materials, non-print materials, on-line databases, and other services provided by the Media Center. This course will give the student opportunities to learn and provide advanced Media Center services to students and staff. To be successful in this course, students must have consistent attendance and be active participants.



# Multi – Departmental

*\* Please note that not all courses listed are offered each year.*

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<b>008682</b>	<b>Innovation Learning</b>	<i>Prerequisite: None</i>
<b>008692</b>	<b>Innovation Lab</b>	<i>Prerequisite: Innovation Learning</i>

*Grades 11-12. 1 semester. ½ credit. 1 Retake.*

Innovation Learning/Lab is a year-long class unlike any other offered at Troy High School. It is an opportunity for real 21<sup>st</sup> century learning. The first semester teaches students about the various types of innovation, while building the skills of an innovator. (See [creatinginnovators.com](http://creatinginnovators.com) & <http://dschool.stanford.edu/>) The course is influenced by the “D school” at Stanford University. The second semester is an amazing experience developing a personal innovative project. Students will be challenged & guided through the innovation process in order to bring a new “to the world” idea to life.

## **102523/202523 Seminar AP**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake.*

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part as a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

## **102533/202533 Research AP**

*Grades 11-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: AP Seminar.*

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.



# Physical Education Department

*\*Please note that not all courses listed are offered each year.*

## **007952 Intro to Physical Activity (Level 1)**

## **007962 Intro to Physical Activity (Level 2)**

*Grades 9-12. 1 semester. ½ credit. No Retake.*

The completion of either one of these courses is **REQUIRED FOR GRADUATION**. It will count as one half of the one-year physical education graduation requirement. The course will also include CPR training, physical fitness, swimming testing, and team sports. The importance of physical activity will be taught. **\*Choose either course 007952 or 007962. Students cannot take both courses for credit.**

**007952 Level 1** is a low-impact conditioning and less-competitive activities will be the foundation of the Level 1 Introduction class. Individualized activities and fundamental skills will also be emphasized.

**007962 Level 2** is designed for the more competitive student in both team and individual activity situations. Advanced conditioning and skills will be emphasized. Students with medical limitations should not enroll in this level. This class is designed for the more competitive and skilled student.

## **006162 Exercise and Lifelong Fitness**

*Grades 9-12. 1 semester. ½ credit. Retake. Prerequisite: None.*

This course is an introduction to yoga, Pilates, step aerobics, aerobics, and basic tumbling. It will include creative movement, exercise, and dance all geared toward life-long fitness.

## **006172 Self Defense and Lifelong fitness**

*Grades 9-12. 1 semester. ½ credit. Retake. Prerequisite: None.*

This course is an introduction to self-defense. The student will be introduced to numerous strategies including avoidance, awareness and action. It will include an aerobic fitness component, as well as a CPR component. All of these components are geared toward lifelong fitness and overall safety and well-being. This class is not a sport fighting class but more geared towards basic knowledge of defending yourself.

## **008082 Net Sports & Fitness**

*Grades 9-12. 1 semester. ½ credit. Retake. Prerequisite: None.*

This course aims to teach the basic skills and rules of Tennis, Badminton, Ping-pong, Volleyball and Pickleball. The course is intended to help establish knowledge and skill set for the beginner and/or improve the skills for advanced athletes. Students will take part in activities that benefit overall fitness as well as various game playing and tournament scenarios.

## **005511 Fall Team Sports & Fitness**

*Grades 10-12. 1 semester. ½ credit. Retake. Prerequisite: None.*

This is a highly competitive course; the student will participate in a variety of team sports and fitness. Competitive games and tournaments will take place during the semester.

## **005512 Spring Team Sports & Fitness**

*Grades 10-12. 1 semester. ½ credit. Retake. Prerequisite: None.*

This is a highly competitive course; the student will participate in a variety of team sports and fitness. Competitive games and tournaments will take place during the semester.

## **007922 Weight Training and Aerobics – Fall**

## **007912 Weight Training and Aerobics Spring**

*Grades 9-12. 1 semester. ½ credit. Retake. Prerequisite: None.*

This course is designed for the student wishing to achieve optimum cardiovascular fitness via strength and flexibility exercise. Class emphasis will focus on group aerobic activities including but not limited to walking, jumping rope, jogging, running, stair climbing, and stationary biking and may also include circuit strength training, swimming, and a standardized fitness test. This course is not recommended for students with medical limitations.

## **005515 Beginning and Intermediate Tumbling & Gymnastics/Fitness**

*Grades 9-12. 1 semester. ½ credit. Retake. Prerequisite: None.*

This course will give the student an opportunity to work on fitness through tumbling, gymnastic floor skills, beam skills and vault skills. Students will be taught at their own level (whether they are beginner or have some prior experience).

**005521 Learning to Swim/Beginning and Intermediate Swimming and Lifetime Sports and Fitness**

*Grades 9-12. 1 semester. ½ credit. Prerequisite: None.*

This course is designed for students who have a fear of water and need more individual attention in developing swimming skills. The students will work at their own level to learn the basic strokes, floating, treading and diving. This is an introductory swimming course.

**005522 Lifeguarding/Advanced Swimming and Lifetime Sports & Fitness.**

*Grades 9-12. 1 semester. ½ credit. Retake. Prerequisite: Must be 15 Yrs Old*

The student will be given the opportunity to learn and perform swimming rescues, CPR, AED and first aid so that he/she may be certified as a Red Cross lifeguard. It is necessary that the student has strong swimming skills. A preliminary swim test will be given. This class is intended for strong, experienced lap swimmers. If certification is desired, *cost is \$40*

**008014 Fall Strength and Conditioning**

**008024 Spring Strength and Conditioning**

*Grades 9-12. 1 semester. ½ credit. Retake. Prerequisite: Weight Training & Aerobics or Teacher Approval.*

This course is designed for the integration of physical education and multiple core science areas related to the human body and its physiological processes. This course will cover basic anatomy, emphasizing major structures and functions during physical activity and how they physiologically respond and adapt to acute and chronic bouts of exercise. The principles of nutrition, supplementation, and weight management, along with negative side effects of drugs, alcohol and other substances affect the body and physical performance. The concepts of physics that will be applied from a biomechanical standpoint will be force, work, power, speed, and acceleration. These concepts will investigate the efficiency of human movement. Training techniques and enhanced physical performance will be emphasized. Proper technique will be taught to improve overall physical fitness focusing on weight training, circuit training, cardiovascular improvement, HITT, plyometrics and flexibility. Completion of weight training and aerobics class required and/or, teacher/coach approval needed.



**Notes:**

All courses in the Physical Education Department contain a fitness component. The President's Challenge Physical Fitness Test will be given in most physical education classes. One credit of physical education is required for graduation.

It is suggested that all 9<sup>th</sup> grade students take Introduction to Physical Activity.

All students are welcomed and encouraged to take any swim class at their skill level. Those students, however, who do not wish to take swim should sign up for other physical education classes to fulfill their one-credit requirement.

# Science Department

\* Please note that not all courses listed are offered each year.

## SCIENCE PATHWAYS IN TROY

GRADUATION REQUIRED COURSES ALL STUDENTS	9 <sup>th</sup> GRADE		10 <sup>th</sup> GRADE		11 <sup>th</sup> GRADE & 12 <sup>th</sup> GRADE	
	Biology (1.0)		Chemistry 1 (0.5)	Physics 1 (0.5)	Environmental Science (0.5) OR AP Environmental (1.0)	Science Elective <u>(0.5)</u> Possible Electives listed below
Additional Course Options	<div>AND</div> <div>Chemistry 1 (0.5)      Physics 1 (0.5)</div>		Chemistry 2 (0.5)	Physics 2 (0.5)	<div>AND</div> <div>Chemistry 2 (0.5) and Physics 2 (0.5) (if not taken prior)</div>	
			<div>AND</div> <div>Pathway specific electives ↓</div>		<div>AND</div> <div>Pathway specific electives ↓</div>	
Prerequisites for electives identified in Course Descriptions			Electives with Biology, Chemistry <u>1</u> or Physics 1 as pre-requisites		Electives with Chemistry 2 or Physics 2 as pre-requisites or grade level requirements in addition to Biology, Chem <u>1</u> or Physics 1 as pre-requisites	
	<b>Biology Focus Pathway</b> Associated Careers: <i>Doctor, Nurse, Lab Research, Wildlife Biologist, Genetic Counselor, Physical Therapist, Med Tech, EMT, Vet, etc.</i>		<b>Biology Electives</b> -GBBE (1.0) -Anatomy and Physiology (1.0) -Organic Chemistry (0.5)		<b>Biology Electives</b> --GBBE (1.0) -Anatomy and Physiology (1.0) -Organic Chemistry (0.5) -AP Biology (1.0) -Forensics (0.5)	
	<b>Chemistry Focus Pathway</b> Associated Careers: <i>Chemist, Pharmaceutical, Chemical Engineer, Material Scientist, Toxicologist, etc.</i>		<b>Chemistry Electives</b> -Organic <u>Chemistry</u> (0.5)		<b>Chemistry Electives</b> -AP Chemistry (1.0) -Organic Chemistry (0.5)	
	<b>Physics Focus Pathway</b> Associated Careers: <i>Engineer, Astronomer, Meteorologist, Atmospheric and Space Scientist, Nuclear Engineer etc.</i>		<b>Physics Electives</b> -Engineering Physics (1.0)		<b>Physics Electives</b> -AP Physics 2 (1.0) -AP Physics C (1.0) -Engineering Physics (1.0)	
	<b>Earth Science Focus Pathway</b> Associated Careers: <i>Climatologist, Environmental Lawyer, Ecologist, Oceanographer, Water Quality Scientists</i>		<b>Earth Science Electives</b> -Astronomy (0.5)		<b>Earth Science Electives</b> -AP Environmental (1.0) -Astronomy (0.5)	

# Science Department

*\* Please note that not all courses listed are offered each year.*

## **104003/204003 Biology**

*Grade 9-12. 2 semesters. ½ credit per semester. No retake.*

Students will actively engage in studies of scientific methodology, the cell, molecular biology, energy and metabolism, development and reproduction, evolution, and ecology. Current issues and problems will be used as the focus for concept development. There will be an emphasis on laboratory experiences and involving students in process problem solving.

## **104053/20453 Anatomy and Physiology**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Biology*

This class will examine the development of organ systems over time through a zoology experience which includes a number of dissections culminating with a shark experience. The remainder of the course will focus on the structure and function of the various human tissues, organs, and systems that make up the human body. Laboratory work is emphasized and includes the dissection of a cat.

## **104063/204063 Genetics, Bacteriology, Biotechnology, and Embryology**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Biology.*

This course will explore four areas of study while emphasizing the development of related laboratory skills and engineering practices in each unit of study. Unique research opportunities are provided, and evolutionary theory is a common thread that ties the course together.

**1. Genetics --** We will study genetics as a human endeavor that begins with the study of cells, chromosomes, and cell division including an in depth look at both mitosis and meiosis, asexual and sexual reproduction, and their roles in life cycles. We will then focus on the transmission of genes from generation to generation and the various patterns of inheritance, including polygenes, multifactorial inheritance, and the study of cytogenetics.

**2. Biotechnology --** This portion of the course will emphasize the structure of DNA, its historical structural analysis, viruses, DNA replication, gene expression, and how proteins relate to phenotypes. We will study mutation as another source of genetic variation, the process of cloning, and recombinant DNA technology, including the transformation of bacterial cells, restriction enzymes, RFLPs, gel electrophoresis, PCR and CRISPR.

**3. Bacteriology --** In this portion of the course, we will begin with the discovery of microbes and their relation to human affairs. We will look at the germ theory of disease; the morphology of bacterial cells; the various measurement techniques for measuring microbial growth; the use of antibiotics in inhibiting microbial growth, antibiotic testing and resistance. We will also study bacterial metabolism, the evolution of microbes, microbial diversity, and we will use our learned skills to determine bacterial unknowns and the proper antibiotic applications.

**4. Embryology --** In this final area of the course, we will focus on the phases of embryonic development of animals, including humans and chickens. We will investigate the role that genes play in early development and the influence of hormone products in guiding the reproductive processes. This course is designed to prepare students for AP Biology.

## **104073/204073 Biology AP**

*Grades 10-12. 2 semesters. ½ credit per semester. No retake. Prerequisite: Biology and Chemistry 1 and Chemistry 2*

AP Biology is a college-level course that studies the core scientific principles, theories, and processes that govern living organisms and biological systems. You'll do hands-on laboratory work to investigate natural phenomena. This course is designed to prepare students for the college board exam with emphasis on the advanced application of concepts, inquiry-based investigations, and science practices ranging from statistical tests and data analysis to scientific argumentation. The topics covered are biochemistry, cellular biology, energetics, molecular biology, genetics, evolution, and ecology. Students enrolling should have a strong foundation in molecular biology genetics, biotechnology, and chemistry.

## **004122 Chemistry 1**

*Grades 9-12. 1 semester. ½ credit. No Retake.*

Students will study theories and concepts in chemistry related to energy, atomic structure, bonding, chemical reactions, solution, and combustion. Many topics are developed through analytical problem solving of real-life phenomena. Experiments will be performed which will drive the learning of concepts. Students will execute a variety of laboratory techniques throughout the semester. Students will be expected to work with a group, follow procedures, ask questions, organize data, make observations, develop models, and apply concepts learned to real-life practical situations.

## **004123 Chemistry 2**

*Grades 10-12. 1 semester. ½ credit. No Retake. Pre-Requisite: Chemistry 1*

Course satisfies 1/2 credit of math related graduation requirement during the 12th grade year.

Students will extend their learning of theories and concepts chemistry related to atomic structure, bonding, chemical reactions, solutions, acid-base chemistry, thermodynamics, equilibrium, and gas laws. Many topics are developed through analytical problem solving of real-life phenomena.

Experiments will be performed in a collaborative setting which will drive the learning of concepts. A strong foundation in algebra will be important in understanding class concepts. Students interested in any STEM related field are encouraged to take the course. This course is a pre-requisite for taking Advanced Placement Chemistry

## **104143/204143 AP Chemistry**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Chemistry 1 and Chemistry 2*

Course satisfies 1 credit of math related graduation requirement during the 12th grade year. This course will prepare the student for the Advanced Placement exam, which may entitle the student to college credit. Theoretical concepts will include stoichiometry, solutions, kinetics, equilibrium, acid-base theory, thermodynamics, electrochemistry, gas laws, atomic theory and bonding. Laboratory experiments will be performed throughout the year which will reinforce the concepts and demonstrate various laboratory techniques. Students should have a solid foundation in Chemistry 1 skills. The skill set includes a thorough comprehension of stoichiometry (including limiting reagent), electronic structure of atoms, covalent bonding, gas laws, solutions, and thermochemistry. The course includes a significant amount of independent work.



## 004102 Organic Chemistry

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: Chemistry 1*

Organic Chemistry builds on the fundamentals of chemical bonding and intermolecular forces established in general chemistry. This course builds upon a mastery of concepts acquired through successful completion of Chemistry. These include atomic structure, periodic trends, chemical bonding, stoichiometry, laboratory skills, and safety protocols. Content covered in the course includes organic structure, properties, and reactions which will be applied to various real-world topics such as fuels, fragrances, flavors, pharmaceuticals, and plastics. Organic Chemistry builds on the lab work established in general level chemistry. Students should be able to work well with others, make observations, and work safely in the lab. Lab experiences in Organic Chemistry include melting point determination, distillation, and fermentation.

## 004231 Physics 1

*Grades 9-12. 1 semester. ½ credit per semester. No Retake.*

This course is the study of the interaction of energy and matter and will be centered around extensive laboratory work with a strong emphasis on data and graphical analysis. Concepts include motion, force, energy, and momentum. This course is built upon algebra skills including interpreting and applying scientific concepts to word problems and developing strong laboratory-based scientific reasoning.

## 004232 Physics 2

*Grades 10-12 1 semester. ½ credit per semester. No Retake. Prerequisite: Physics 1 and Algebra and Geometry*

Course satisfies ½ credit of math related graduation requirement during the 12th grade year.

This course builds upon Physics 1 and completion of Geometry. The course builds upon topics from

Physics 1 and requires strong laboratory skills and mathematical reasoning skills. This course explores the topics in Physics 1, but with increased pace and mathematical rigor, and explores additional topics in mechanics, electrostatics, and waves. Students will be prepared for advanced physics courses after successful completion of this course.

## 104236/204236 Engineering Physics

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Physics 1*

♦ Course satisfies ½ credit of math related graduation requirement during the 12th grade year.

Mastery of Physics 1 concepts including mechanics, waves, and electricity along with solid Algebra and Geometry skills will be significant factors in student success. This college preparatory course is for students interested in extending their study of physics beyond the standard Physics 1 curriculum. Areas of study may include rotational mechanics, statics, fluids, waves, aerodynamics, electromagnetism, and modern physics. Practical understanding of these concepts will be applied and tested through collaborative engineering projects throughout the year. Examples of these could include remote control vehicles, gliders, rat-trap dragsters, boomerangs, wind turbines, bridge efficiency, musical instruments, antenna design, and autonomous vehicles. Students will also develop their skills and experiences with wind tunnels, 3D drawing software, 3D printing, digital sampling, Arduino technology, and workplace safety.

## 104253/204253 AP Physics 2

*Grades 11-12 or instructor approval. 2 semesters. ½ credit per semester. Prerequisite: Physics 1 and Physics 2*

♦ **Course satisfies 1 credit of math-related graduation requirement during the 12th grade year.**

This course will prepare the student for the Advanced Placement Physics 2 exam. The Physics 2 AP course includes topics in electricity and magnetism, thermodynamics, optics, atomic and nuclear physics, and fluids. Students who elect to take this course must have demonstrated an understanding of basic chemistry. The College Board states the prerequisites for Physics 2 AP as follows: Students should have had AP Physics 1 or a comparable introductory course in physics. Students should have taken or be concurrently taking precalculus or an equivalent course. TSD Physics 1 and Physics 2 together are considered a comparable course to AP Physics 1 and may serve as the prerequisite for Physics 2 AP. Students should have achieved a mastery level of understanding of the concepts and skills taught in Physics 1 to be successful in Physics 2 AP. The course is designed to be the equivalent to a second-semester college course in algebra-based physics. This course does not typically meet the physics requirements for physics and engineering majors at the college level. Students planning for a major other than physics or engineering, unsure of their college major, or interested in the wide range of topics in physics should consider taking this course.

## 104263/204263 AP Physics C

*Grades 11-12 2 semesters. ½ credit per semester. Prerequisite: Physics 1 and Physics 2 & Calculus (may be concurrently enrolled)*

♦ **Course satisfies 1 credit of math related graduation requirement during the 12th grade year.**

This course will prepare the student for the advanced placement Physics C Exam. The Physics C course includes topics in mechanics and electricity & magnetism with approximately equal emphasis on these two areas. To be successful in electricity and magnetism, students should have a basic understand of atomic structure (Chemistry 1). Strong emphasis is placed on solving a variety of challenging problems. Calculus is used freely in formulating principles and in solving problems. Most engineering colleges will only offer credit from this AP Physics course.

## 004314 Environmental Science: Human Impact

*Grades 10-12. 1 semester. Prerequisite: Introductory Biology*

This high school course explores how our actions affect the environment, focusing on teamwork and real-world connections. We'll look at climate impact, efficient food systems, and responsible resource use. The course covers water, recycling, managing Earth's resources, encouraging global talks on distribution, and energy. Using systems thinking, students find solutions considering different views and limits.

## 004212 Astronomy

*Grades 10-12 1 semester. ½ credit. Prerequisites: Algebra 1*

♦ Course satisfies ½ credit of math related graduation requirement during the 12th grade year. This course is a survey of current thought in astronomy. A lecture/laboratory format will allow discussion of topics including constellation identification, night sky observations, planetary surfaces and atmospheres, black holes, galaxies, exoplanets, dark matter, and the fate of the universe.

#### **004042 Forensic Science**

*Grades 11-12. 1 semester. ½ credit. No Retake. Prerequisite: Biology & Chemistry 1.*

Junior and seniors enrolling in forensic science should have a high maturity level and a foundation in problem solving and collaboration.

This college preparatory course introduces the field of forensic science and crime scene investigation. The course examines many topics including crime scene investigation methods, types of evidence, bone identification, entomology, pathology, fingerprinting, DNA, blood typing and blood splatter analysis, hair and fiber analysis, and handwriting analysis. Forensic science is designed to be a lab-based, hands-on experience with investigative studies in the fields of biology, chemistry and physics.

#### **104273/204273 Environmental Science AP**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake. Prerequisites: Biology & Chemistry 1, Algebra 1,*

*Course satisfies the Earth Science requirement*

Students will explore and investigate the interrelationships of the natural world and analyze environmental problems, both natural and human-made.

Topics will include Ecosystems, Biodiversity, Populations, Earth Systems and Resources, Land and Water Use, Energy and Resources, Pollution and Global Change. Laboratory investigations and field work are integral components of this course. This course is designed to prepare students for the College Board exam in the Spring.

Skills you will learn:

- Explaining environmental concepts and processes
- Analyzing data, visual representations, and writings
- Applying quantitative methods in solving problems
- Proposing a solution for an environmental problem and supporting your idea with evidence
- Analyzing a research study to identify a hypothesis



# Social Studies Department

*\* Please note that not all courses listed are offered each year.*

## **002232 World History/Geography 1**

*Grade 9. 1 semester. ½ credit. No Retake.*

The World History 1 course helps students understand the development of the modern world. It begins with the collapse of Rome and ends with the French Revolution and defeat of Napoleon. Students construct meaningful understandings of fundamental themes in history, geography, and economics regarding persisting world problems and issues. The course is chronologically organized and worldwide in scope. It enables students to view themselves of a global community who appreciate diversity in the world and are prepared to make decisions about world affairs.

## **102503/202503 Human Geography AP**

*Grade 9. 2 semesters. ½ credit per semester. No Retake. \*This course DOES NOT replace the requirement for World History 1.*

The Advanced Placement Human Geography course will prepare students for the Advanced Placement exam which may entitle the student to college waivers or credit. The purpose of the course is to introduce students to the systematic study of patterns and processes that have shaped understanding, use, and alteration of the earth's surface. Students employ special concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

## **102023 American History/Geography 1**

## **202023 American History/Geography 2**

*Grade 10. 1-year course divided into 2 semesters. ½ credit per semester. No Retake.*

American History provides students an opportunity to comprehend fundamental themes in history, geography, and economics that explain the development of the United States as a nation from 1877. It fosters an understanding of how our history has affected relationships between the United States and other nations and among the branches of government, levels of government, and groups of citizens here at home. Students explore diversity in American culture and the democratic values which unify the nation. Both orally and in writing, students construct carefully reasoned views expressing their ideas in persisting public issues facing Americans. Issues are analyzed from economic, social and political perspectives.

## **102013/202013 American History/Geography AP**

*Grade 10. 2 semesters. ½ credit per semester. No Retake.*

This course will provide students with the opportunity to develop analytical skills and to acquire factual knowledge. Dealing with problems critically and conducting historical research will be emphasized. Students will write essay examinations and research papers, as well as learn the proper methods for citing sources and crediting the ideas of others. The demands placed upon students will be directly equivalent to those placed on students in college American History courses. At the end of the course, students will be given the opportunity to take an Advanced Placement examination in American History that may earn them college credit.

## **002062 Economics**

*Grade 11. 1 semester. ½ credit. No Retake.*

This course is designed to give the student an overview of the forces at work in a free enterprise system. Study will focus on economic systems, demand, supply, consumers and savers, trade, and the role of government. Financial choices that must be considered by individuals and businesses will be emphasized.

## **102073/202073 Economics AP**

*Grades 11-12. 2 semesters. ½ credit per semester. No Retake.*

This year-long course is designed to help students develop critical thinking skills through the understanding, application, and analysis of fundamental economic concepts. Students will be expected to apply qualitative and mathematical skills to economics. One semester will focus on macroeconomics and one semester will focus on microeconomics. This course will provide students with a thorough understanding of the principles of economics that apply to economic systems. Beyond the study of basic systems, emphasis is placed on the study of national income, fiscal and monetary policies, economic performance measures, economic growth and international economics. Economics AP will prepare students for both the AP Macroeconomics and AP Microeconomics exams in May and is comparable to university courses in both areas.

## **002072 Government and Civics**

*Grade 11. 1 semester. ½ credit. No Retake.*

The Government and Civics course prepares students for informed and responsible participation as citizens of our constitutional democracy. Students deepen their understanding of the democratic values expressed in the Declaration of Independence, the Constitution, and other foundational documents of the United States. They learn the purposes and structures of government within the federal system. They also learn how citizens exert influence on public affairs and decisions. As a result of this course, students are prepared to exercise the rights and responsibilities of American citizenship.

## **002052 Government AP**

*Grades 11-12. 1 semester. ½ credit. No Retake.*

This Government AP course will prepare students for the advanced placement exam that may entitle them to college credit. This course gives the students an analytical perspective on government and politics in the United States. It includes both the study of general concepts and specific case studies that allow for interpretation of United States politics and requires familiarity with the various institutions, groups, beliefs, and ideas that constitute the political reality of the United States.

**002242 World History/Geography 2**

*Grade 12. 1 semester. ½ credit. No Retake.*

The World History 2 begins course helps students understand the development of the modern world. It begins with the Industrial Revolution and ends with the current issues of today. Students construct meaningful understandings of fundamental themes in history, geography, and economics regarding persisting world problems and issues. The course is chronologically organized and worldwide in scope. It enables students to view themselves of a global community who appreciate diversity in the world and are prepared to make decisions about world affairs.

**102233/202233 World History/Geography AP**

*11-12. 2 semesters. ½ credit per semester. No Retake.*

The World History/Geography - AP course will prepare the student for the advanced placement test which may entitle the student to college credit. World History/Geography - AP gives the student a chronological analysis of the events that shaped the world from Middle Ages to the present and satisfies the social studies graduation requirement for World History. It includes both the study of general concepts and specific case studies that allow for interpretation of historical data, themes, and movements that cross chronological periods. The student will gain an understanding of the principal themes of World History, an ability to analyze historical evidence, and an ability to analyze and express historical understanding in writing.

**002152 Psychology 1**

*Grades 10-12. 1 semester. ½ credit. No Retake.*

This course provides a broad introduction to the various topics of psychology. This will include the basic methods of psychological research, learning theory, biological psychology and the brain, personality theory and psychoanalysis, memory, cognition and consciousness.

**002162 Psychology 2**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: Psychology 1.*

This course will be a continuation of Psychology 1. It will include the study of social psychology and gender development, perception and sensation, abnormal psychology, and therapeutic techniques.

**102163/202163 Psychology AP**

*Grades 11-12. 2 semesters. ½ credit per semester. No Retake.*

This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings. Students learn about some of the explorations and discoveries made by psychologists over the past century. Students assess some of the differing approaches adopted by psychologists, including the biological, behavioral, cognitive, humanistic, psychodynamic, and sociocultural perspectives.

**002182 Sociology**

*Grades 10-12. 1 semester. ½ credit. No Retake.*

This course will give students the opportunity to study major social problems that face contemporary society. The functioning of small groups, the family and the community will be emphasized. Class participation is an important part of this class.

**002112 Mental Health**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: Psychology 1.*

Students will study the various major emotional and mental illnesses with a focus on adaptive and maladaptive coping mechanisms. Topics include stress, depression, anxiety, substance abuse and codependency, anger, domestic violence, social psychology with topics including group behavior, cult formation, conformity and obedience, attitude formation and prejudice.

**002082 Philosophy**

*Grades 11-12. 1 semester. ½ credit. No Retake.*

This course will give students the opportunity to survey the various themes and approaches in philosophy as well as develop their own personal philosophy. It will include the study of classic philosophy, the four major schools of philosophy, ethical philosophy, eastern philosophy, and contemporary American philosophers. Class participation is a vital part of this class.

**002042 Comparative Government and Politics AP**

*Grades 11-12. 1 semester. ½ credit. No Retake.*

This course introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. Six countries form the core of the AP Comparative Politics course: China, Great Britain, Iran, Mexico, Nigeria and Russia.

**002322 Political Science**

*Grades 9-12. 1 semester. ½ credit. No Retake.*

This course focuses on an introduction to political issues, comparative governments, and world politics through research and class discussions. Current issues and opposing viewpoints will be discussed throughout the course. Topics include studying classical political philosophers, responses to terrorism, examples of military intervention, human rights, etc.

**002032 History of American Criminal Law**

*Grades 9-12. 1 semester. ½ credit. No Retake.*

This course will examine the history of law and the legal system in America. Emphasis will be placed on famous criminal law trials and landmark Supreme Court cases. In addition, students will learn about rights during an arrest, steps in a trial, and the punishment and rehabilitation of criminals. Students will have the opportunity to learn about criminal law through various teaching strategies including classroom discussions, and mock trials.

**002034 History through Film**

*Grades 10-12. 1 semester. ½ credit. No Retake.*

Historical films are an interpretation of their society and can be used as historical evidence, like other types of sources, to explain the social, political, or cultural moments for which they were created. Prior to watching films, students will be introduced to the historical topic through primary and secondary sources as well as charts, maps, and graphs. In addition to viewing feature films, students will be exposed to documentaries, interviews, and TED talks to complement their knowledge of the unit. Students will also participate in harkness discussions, complete map and geography assignments, read and annotate related articles, research historical topics, work in groups, create presentations, and write film critiques, reflections, and essays. Students will evaluate films as historical evidence and determine if the creator's interpretation is balanced and truthful. Students will also determine how these films reflect ideas, values, and larger historical issues in the time frame being studied.

**002502 Conflicts of the 20<sup>th</sup> & 21<sup>st</sup> Centuries**

*Grade 11-12. 1 semester. ½ Credit. No Retake. Prerequisite: World History 1, American History 1 & 2.*

Conflicts of the 20<sup>th</sup> & 21<sup>st</sup> Centuries provides students an opportunity to comprehend fundamental themes in social sciences that help to explain the state of international affairs today. The causes, both long and short-term of war, the nature and practices in how war is fought, and the effects and results of war in military, political, social and economic impact will be explored with case studies. Concepts such as total war, civil war and limited war will be differentiated and studied at both a global and local level.

**002122. Introduction to Leadership**

*Grades 9-12. 1 semester. ½ credit. Retakes.*

This course examines the characteristics and principles of various leadership philosophies. Students will study the ideology behind different leadership styles, and then examine the effectiveness of those approaches as they apply to various people and aspects of society. In addition, students will evaluate their own leadership style, their personal strengths and weaknesses and determine what approach to leadership they believe is most effective in the world today. Students will learn skills that can be applied to situations throughout their high school education. This is a student led course with emphasis on collaboration and public speaking that is geared towards underclassmen.

**002125 Leadership Lab**

*Grades 10-12. 1 semester. ½ credit. Retakes.*

This course enhances each student's leadership style by continuing individual and group analyzation and development. Students can practice and implement this skill set at multiple levels including class, school, community, and/or state level. In addition, students will continue to evaluate their own leadership style in a collaborative setting.

**002222 LINK**

*Grades 10-12. 1 semester. ½ credit. 4 Retakes.*

This class provides students with an opportunity to support and model academic and social skills for a peer with a disability. There is a focus on leadership skills, understanding and adapting to individual differences in the school setting, written and verbal communication skills, modeling social experiences, and advocating for others. The curriculum includes and evaluations are based on; journaling, participation through Internet disability modules, pre/post assessments, attendance, classroom participation with peer, and a final project.

**102523/202523 Seminar AP**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake.*

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part as a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

**102533/102533 Research AP**

*Grades 11-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: AP Seminar.*

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

**106383/206383 AP Art History**

*Grades 11-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: World History/Geography 1 & American History/Geography 1&2*

The AP Art History course welcomes students into the global art world to engage with its forms and content as they research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. By investigating specific course content of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the students develop in-depth, holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, developing understanding of individual works and interconnections across history. AP Art History is the equivalent of a two-semester introductory college or university art history survey course.

**002617 Stories of Yourself & Others**

*Grades 12. 1 semester. ½ ELA credit, ½ History credit. No Retake. Prerequisite: World History/Geography 1 & American History/Geography 1&2*

This is an interdisciplinary inquiry-based course that explores the power of storytelling, writing, and narrative through the lens of reconstruction history. Students will investigate the role of identity in marginalized communities during the Reconstruction Era by evaluating and synthesizing primary and secondary resources. Fiction and non-fiction narratives that model self-reflection and storytelling will be read and discussed in a Socratic Seminar format. The course culminates in a student research project into their own history and identity or a self-selected marginalized group and will be presented in a medium of the student's choice.



# Special Education Department

For more information, please contact Central Office Special Education (248.823.5096).

**109909 Achievement Skills 1A – 9<sup>th</sup> grade**  
**109910 Achievement Skills 2A – 10<sup>th</sup> grade**  
**109911 Achievement Skills 3A – 11<sup>th</sup> grade**  
**109912 Achievement Skills 4A – 12<sup>th</sup> grade**

**209909 Achievement Skills 1B – 9<sup>th</sup> grade**  
**209910 Achievement Skills 2B – 10<sup>th</sup> grade**  
**209911 Achievement Skills 3B – 11<sup>th</sup> grade**  
**209912 Achievement Skills 4B – 12<sup>th</sup> grade**

*Grades 9-12. 1 semester. ½ credit. No Retake.*

This is a Study Skills class for students who have been certified by an IEPT. This class is designed to meet the individual needs of students in regard to their IEP goals and objectives. Students will spend the majority of class learning specific study skills including note taking, test taking, memory strategies and presentation skills. Time is also given for organization and work completion. Course placement will be made in collaboration with IEP case manager.

## **009273 Linguistics 2D**

*Grades 9-12. 2 semesters. ½ credit per semester.*

This is an English class for students who have been certified by an IEPT. This course combines composition and literature and is designed to help students develop skills in reading, writing, listening and speaking. Content includes syllable types, vocabulary expansion, grammatical functions, higher order thinking, pre-writing and multiple genre essay development. This course meets the regular English requirements. Course placement will be made in collaboration with IEP case manager.

## **009283 Linguistics 2E**

*Grades 9-12. 2 semesters. ½ credit per semester.*

This is an English class for students who have been certified by an IEPT. This course combines composition and literature and is designed to help students develop skills in reading, writing, listening and speaking. Content includes phonograms, vocabulary expansion, grammatical functions, clauses, higher order thinking, pre-writing and multiple genre essay paragraph development. This course meets the regular English requirements. Course placement will be made in collaboration with IEP case manager.

## **009263 Linguistics 2F**

*Grades 9-12. 2 semesters. ½ credit per semester.*

This is an English class for students who have been certified by an IEPT. This course combines composition and literature and is designed to help students develop skills in reading, writing, listening and speaking. Content includes comprehension expansion, gerunds, participles, properties of verbs, subject-verb agreement, prepositions, higher order thinking, pre-writing and multiple genre essay development. This course meets the regular English requirements. Course placement will be made in collaboration with IEP case manager.

## **009201 Reading Strategies**

*Grades 9-12. 1 semester. ½ credit per semester. Retake.* This is an intervention class for students who have been certified by an IEPT. This course combines decoding and encoding strategies through direct stimulation of symbol imagery to improve accurate and fluent text reading and spelling. This is an elective course. Course placement will be made in collaboration with IEP case manager.

## **003003 Integrated Math 1**

*Grades 9-12. 2 semesters. ½ credit per semester.*

This course continues to develop, reinforce, and maintain previously learned concepts. Emphasis is placed on pre-algebra concepts such as numerical computation and calculation with variables along with algebra concepts such as solving/graphing linear equations, solving inequalities and calculating slope. Problem solving and calculator use will be integrated throughout instruction. Course placement will be made in collaboration with IEP case manager.

## **003103 Integrated Math 2**

*Grades 9-12. 2 semesters. ½ credit per semester.*

The course extends the concepts studied in Integrated Math 1. The emphasis is on algebraic concepts such as systems of linear equations and inequalities, polynomials, factoring, and quadratic and exponential functions. The curriculum is based on the algebra curriculum. Problem solving and calculator use will be integrated throughout instruction. Students should already be able to calculate positive and negative integers, solve two-step linear equations, substitute values into equations, understand combining like terms and the distributive property, and have a basic understanding of slope. Course placement will be made in collaboration with IEP case manager.

## **009303 English Language Arts 1**

*Grades 9-12. 2 semesters. ½ credit per semester. 3 Retakes.*

This class is designed to improve and strengthen reading, vocabulary and fluency. Research based programs are implemented daily along with skill building activities created to support individual needs. Course placement will be made in collaboration with IEP case manager.

## **009573 English Language Arts 2**

*Grades 9-12. 2 semesters. ½ credit per semester. 3 Retakes.*

This class is designed to improve and strengthen reading, vocabulary and fluency. Research based programs are implemented daily along with skill building activities created to support individual needs. Course placement will be made in collaboration with IEP case manager.

## **009332/009342 Math Skills A/B**

*Grades 9-12. 2 semesters. ½ credit per semester. Retake.* Math Skills is based on skills a student will need to learn when they exit high school. The students still improve on core math skills but are challenged to implement what they know and apply it to skills they will need as an adult. Course placement will be made in collaboration with IEP case manager.

## **009632/009642 Life Skills Math**

*Grades 9-12. 2 semesters. ½ credit per semester. Retake.* This course covers functional math skills needed for independent daily living. Course placement will be made in collaboration with IEP case manager.



# World Language Department

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## **100603/200603**

### **French 1**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: None.*

In this introductory course, students will focus on pronunciation and basic vocabulary centered around themselves, their identity, and familiar objects from their immediate environment. Students will develop basic proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. Conversational exchanges will be formulaic, using memorized phrases in familiar contexts. By the end of the course, students will have emerging mastery of verb conjugations in the present tense and an understanding of simple sentence structure. Students will also begin to acquire cultural competence through exposure to a variety of products, practices, and perspectives in various French-speaking countries. Upon successful completion of this course, students will reach the Novice- mid to Novice-high proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

[https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions\\_0.pdf](https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions_0.pdf)

## **100613/200613**

### **French 2**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: French 1*

This course is designed for students who have successfully completed French 1 per teacher recommendation. Building on what was learned in French 1, students will focus on refining their pronunciation while further building their vocabulary. Students will continue to develop their proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be able to respond to simple, direct questions or requests for information. By the end of the course, students will advance their communicative skills from using simple sentences to more complex structures. Students will compare the French culture with their native culture in a variety of contexts. Upon successful completion of this course, students will reach the Novice-high to Intermediate-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

[https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions\\_0.pdf](https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions_0.pdf)

## **100623/200623**

### **French 3**

*Grades 9-12. 2 Semesters. ½ credit per semester. Prerequisite: French 2*

This course is designed for students who have successfully completed French 2 per teacher recommendation. Building on what was learned in French 2, students will start to create with the language and further develop their vocabulary. Students will improve their proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be able to initiate, maintain and bring to close simple conversations by asking and responding to simple questions and stating their opinions. By the end of the course, students will be able to produce stories on topics related to personal interest or study in a variety of tenses. In context, students will explore practices, products, and perspectives of the French-speaking culture shared through a variety of authentic sources. Upon successful completion of this course, students will reach the Intermediate-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

[https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions\\_0.pdf](https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions_0.pdf)

## **100633/200633**

### **French 4**

*Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: French 3*

This course is designed for students who have successfully completed French 3 per teacher recommendation. Building on what was learned in French 3, students will continue creating with the language and expanding their working vocabulary. Students will improve their proficiency across the three modes of communication – Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be better able to initiate, maintain and bring a close to conversations involving more complex situations. By the end of the course, students will be able to express their thoughts and opinions on a variety of relevant topics in a variety of tenses. Students will further explore the practices, products and perspectives of the French-speaking world through exposure to authentic multimedia.

Upon successful completion of this course, students will reach the Intermediate-mid proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

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## **100643/200643**

### **French AP**

*Grade 10-12. 2 semesters. ½ credit per semester. Prerequisite: French 4*

This course is designed for students who have successfully completed French 4 per teacher recommendation. It follows the guidelines of the College Board® AP French Language and Culture course and provides opportunities for students to demonstrate their proficiency in the 3 modes of communication - Interpretive, Interpersonal, and Presentational. The French AP course is divided into thematic units which are based on recommended contexts and guided by essential questions. Review of the mechanics of advanced language structures is done within the contextual framework of each unit as needed. Corresponding cultural elements are integrated into the study of the units and activities are directed with the cultural connections in mind. By the end of the course, students will be able to interpret authentic materials, interact with native French speakers and express themselves with reasonable fluency both orally and in writing. Upon successful completion of this course, students will reach the Intermediate-high to Advanced-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

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An Advanced Placement examination is given in May.

## **100693/200693**

### **Spanish 1**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: None.*

In this introductory course, students will focus on pronunciation and basic vocabulary centered around themselves, their identity, and familiar objects



from their immediate environment. Students will develop basic proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. Conversational exchanges will be formulaic, using memorized phrases in familiar contexts. By the end of the course, students will have emerging mastery of verb conjugations in the present tense and an understanding of simple sentence structure. Students will also begin to acquire cultural competence through exposure to a variety of products, practices, and perspectives in various Spanish-speaking countries. Upon successful completion of this course, students will reach the Novice- mid to Novice-high proficiency level on the ACTFL Proficiency Guidelines.

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### **100703/200703 Spanish 2**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: Spanish 1*

This course is designed for students who have successfully completed Spanish 1 per teacher recommendation. Building on what was learned in Spanish 1, students will focus on refining their pronunciation while further building their vocabulary. Students will continue to develop their proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be able to respond to simple, direct questions or requests for information. By the end of the course, students will advance their communicative skills from using simple sentences to more complex structures. Students will compare the Spanish culture with their native culture in a variety of contexts. Upon successful completion of this course, students will reach the Novice-high to Intermediate-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

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### **100713/200713 Spanish 3**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: Spanish 2*

This course is designed for students who have successfully completed Spanish 2 per teacher recommendation. Building on what was learned in Spanish 2, students will start to create with the language and further develop their vocabulary. Students will improve their proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be able to initiate, maintain and bring to close simple conversations by asking and responding to simple questions and stating their opinions. By the end of the course, students will be able to produce stories on topics related to personal interest or study in a variety of tenses. In context, students will explore practices, products, and perspectives of the Spanish-speaking culture shared through a variety of authentic sources. Upon successful completion of this course, students will reach the Intermediate-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

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### **100723/200723 Spanish 4**

*Grades 10-12. 2 Semesters. ½ credit per semester. Prerequisite: Spanish 3*

This course is designed for students who have successfully completed Spanish 3 per teacher recommendation. Building on what was learned in Spanish 3, students will continue creating with the language and expanding their working vocabulary. Students will improve their proficiency across the three modes of communication – Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be better able to initiate, maintain and bring a close to conversations involving more complex situations. By the end of the course, students will be able to express their thoughts and opinions on a variety of relevant topics in a variety of tenses. Students will further explore the practices, products and perspectives of the Spanish-speaking world through exposure to authentic multimedia.

Upon successful completion of this course, students will reach the Intermediate-mid proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

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### **100733/200733 Spanish AP**

*Grade 10-12. 2 semesters. ½ credit per semester. Prerequisite: Spanish 4*

This course is designed for students who have successfully completed Spanish 4 per teacher recommendation. It follows the guidelines of the College Board® AP Spanish Language and Culture course and provides opportunities for students to demonstrate their proficiency in the 3 modes of communication - Interpretive, Interpersonal, and Presentational. The Spanish AP course is divided into thematic units which are based on recommended contexts and guided by essential questions. Review of the mechanics of advanced language structures is done within the contextual framework of each unit as needed. Corresponding cultural elements are integrated into the study of the units and activities are directed with the cultural connections in mind. By the end of the course, students will be able to interpret authentic materials, interact with native Spanish speakers and express themselves with reasonable fluency both orally and in writing. Upon successful completion of this course, students will reach the Intermediate-high to Advanced-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

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An Advanced Placement examination is given in May.

### **100823/200823 Japanese 1**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: None.*

In this introductory course, students will focus on pronunciation and basic vocabulary centered around themselves, their identity, and familiar objects from their immediate environment. Students will develop basic proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. Conversational exchanges will be formulaic, using memorized phrases in familiar contexts. By the end of the course, students will have

emerging mastery of verb and adjective conjugations in the present, past, negative, and negative-past tenses and an understanding of simple sentence structures. Students will also begin to acquire cultural competence through exposure to a variety of practices, products, and perspectives of Japan, including authentic resources and multi-media. Students will also learn to read and write Hiragana and Katakana characters. Upon successful completion of this course, students will reach Novice-mid to Novice-high proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

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### **100833/200833 Japanese 2**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: Japanese 1*

This course is designed for students who have successfully completed Japanese 1 per teacher recommendation. Building on what was learned in Japanese 1, students will focus on further expanding their vocabulary refining their use of various tenses to describe their surroundings. Students will continue to develop their proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be able to respond to simple, direct questions or requests for information. By the end of the course, students will advance their communicative skills from using simple sentences to more complex structures and will read and write 120 basic Kanji characters. Students will also deepen cultural competence through comparison of Japanese culture with their native culture in a variety of contexts.

Upon successful completion of this course, students will reach the Novice-high to Intermediate-low proficiency level on the ACTFL Proficiency Guidelines.

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### **100843/200843 Japanese 3**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: Japanese 2*

This course is designed for students who have successfully completed Japanese 2 per teacher recommendation. Building on what was learned in Japanese 2, students will start to use the language in casual tenses and further develop their vocabulary. Students will improve their proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be able to initiate, maintain and bring to close simple conversations by asking and responding to simple questions and stating their opinions. By the end of the course, students will be able to create detailed sentences using a variety of tenses and produce comparative and descriptive conversations on topics related to personal interests. In context, students will explore practices, products, and perspectives of Japanese culture shared through a variety of authentic sources, including multimedia. Furthermore, students will strengthen their command of reading and writing and learn another 170+ Kanji characters. Upon successful completion of this course, students will reach the Intermediate-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

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### **100863/200863 Japanese 4**

*Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: Japanese 3*

This course is designed for students who have successfully completed Japanese 3 per teacher recommendation. Building on what was learned in Japanese 3, students will continue creating with the language and expanding their working vocabulary. Students will improve their proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. In conversational exchanges, students will strengthen stamina to better initiate, maintain and bring a close to conversations involving more complex situations.

Students will further explore the practices, products, and perspectives of Japan through use of authentic resources and multimedia. Furthermore, students will strengthen their command of reading and writing and learn another 180+ Kanji characters. Upon successful completion of this course, students will reach the Intermediate-mid proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

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### **108863/208863 Japanese AP**

*Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: Japanese 4*

This course is designed for students who have successfully completed Japanese 4 per teacher recommendation. It follows the guidelines of the College Board® AP Japanese Language and Culture course and provides opportunities for students to demonstrate their proficiency in the 3 modes of communication: Interpretive, Interpersonal, and Presentational. The Japanese AP course is divided into thematic units which are based on recommended contexts and guided by essential questions. Review of the mechanics of advanced language structures is done within the contextual framework of each unit as needed. Corresponding cultural elements are integrated into the study of the units and activities are directed with the cultural connections in mind. By the end of the course, students will be able to interpret authentic materials, interact with native Japanese speakers and express themselves with reasonable fluency both orally and in writing. Furthermore, students will strengthen their command of reading and writing all AP level Kanji characters. Upon successful completion of this course, students will reach the Intermediate-high to Advanced-low proficiency level on the ACTFL Proficiency Guidelines. An Advanced Placement exam is given ACTFL Proficiency Guidelines:

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**100853/200853 Chinese 1**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: None.*

In this introductory course, students will focus on pronunciation and basic vocabulary centered around themselves, their identity, and familiar objects from their immediate environment. Students will develop basic proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. Conversational exchanges will be formulaic, using memorized phrases in familiar contexts. Chinese characters are introduced and are accompanied by Pinyin, which acts as a guide to pronunciation. By the end of the course, students will have emerging mastery of the frequently used characters and an understanding of simple sentence structure. Students will also begin to acquire cultural competence through exposure to a variety of products, practices, and perspectives in various Chinese-speaking countries. Upon successful completion of this course, students will reach the Novice-mid to Novice-high proficiency level on the ACTFL Proficiency Guidelines.

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**100873/200873 Chinese 2**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: Chinese 1*

This course is designed for students who have successfully completed Chinese 1 per teacher recommendation. Building on what was learned in Chinese 1, students will focus on refining their pronunciation and increasing their ability in character recognition and writing. Students will continue to develop their proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be able to respond to simple, direct questions or requests for information. By the end of the course, students will advance their communicative skills from using simple sentences to more complex structures. Students will compare the Chinese culture with their native culture in a variety of contexts. Upon successful completion of this course, students will reach the Novice-high to Intermediate-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

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**100883/200883 Chinese 3**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: Chinese 2*

This course is designed for students who have successfully completed Chinese 2 per teacher recommendation. Building on what was learned in Chinese 2, students will start to create with the language and further develop their vocabulary. Students will improve their proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be able to initiate, maintain and bring to close simple conversations by asking and responding to simple questions and stating their opinions. By the end of the course, students will be able to produce stories on topics related to personal interest or study in a variety of tenses. In context, students will explore practices, products, and perspectives of the Chinese-speaking culture shared through a variety of authentic sources. Upon successful completion of this course, students will reach the Intermediate-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

[https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions\\_0.pdf](https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions_0.pdf)

**100893/200893 Chinese 4**

*Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: Chinese 3*

This course is designed for students who have successfully completed Chinese 3 per teacher recommendation. Building on what was learned in Chinese 3, students will continue creating with the language and expanding their working vocabulary. Students will improve their proficiency across the three modes of communication – Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be better able to initiate, maintain and bring a close to conversations involving more complex situations. By the end of the course, students will be able to express their thoughts and opinions on a variety of relevant topics in a variety of tenses. Students will further explore the practices, products, and perspectives of the Chinese-speaking world through exposure to authentic multimedia. Upon successful completion of this course, students will reach the Intermediate-mid proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

[https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions\\_0.pdf](https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions_0.pdf)

**100813/200813 Chinese AP**

*Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: Chinese 4*

This course is designed for students who have successfully completed Chinese 4 per teacher recommendation. It follows the guidelines of the College Board® AP Chinese Language and Culture course and provides opportunities for students to demonstrate their proficiency in the 3 modes of communication – Interpretive, Interpersonal, and Presentational. The Chinese AP course is divided into thematic units which are based on recommended contexts and guided by essential questions. Review of the mechanics of advanced language structures is done within the contextual framework of each unit as needed. Corresponding cultural elements are integrated into the study of the units and activities are directed with the cultural connections in mind. By the end of the course, students will be able to interpret authentic materials, interact with native Chinese speakers and express themselves with reasonable fluency both orally and in writing. Upon successful completion of this course, students will reach the Intermediate-high to Advanced-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

[https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions\\_0.pdf](https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions_0.pdf)

**100653/200653 German 1**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: None.*

In this introductory course, students will focus on pronunciation and basic vocabulary centered around themselves, their identity, and familiar objects from their immediate environment. Students will develop basic proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. Conversational exchanges will be formulaic, using memorized phrases in familiar contexts. By the end of the course, students will have emerging mastery of verb conjugations in the present tense and an understanding of simple sentence structure. Students will also begin to acquire cultural competence through exposure to a variety of products, practices, and perspectives in various German-speaking countries. Upon successful completion of this course, students will reach the Novice- mid to Novice-high proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

[https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions\\_0.pdf](https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions_0.pdf)

**100663/200663 German 2**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: German 1*

This course is designed for students who have successfully completed German 1 per teacher recommendation. Building on what was learned in German 1, students will focus on refining their pronunciation while further building their vocabulary. Students will continue to develop their proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be able to respond to simple, direct questions or requests for information. By the end of the course, students will advance their communicative skills from using simple sentences to more complex structures. Students will compare the German culture with their native culture in a variety of contexts. Upon successful completion of this course, students will reach the Novice-high to Intermediate-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

[https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions\\_0.pdf](https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions_0.pdf)

**100673/200673 German 3**

*Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: German 2*

This course is designed for students who have successfully completed German 2 per teacher recommendation. Building on what was learned in German 2, students will start to create with the language and further develop their vocabulary. Students will improve their proficiency across the three modes of communication: Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be able to initiate, maintain and bring to close simple conversations by asking and responding to simple questions and stating their opinions. By the end of the course, students will be able to produce stories on topics related to personal interest or study in a variety of tenses. In context, students will explore practices, products, and perspectives of the German-speaking culture shared through a variety of authentic sources. Upon successful completion of this course, students will reach the Intermediate-low proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

[https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions\\_0.pdf](https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions_0.pdf)

**100683/200683 German 4**

*Grades 11-12. 2 semesters. ½ credit per semester. Prerequisite: German 3*

This course is designed for students who have successfully completed German 3 per teacher recommendation. Building on what was learned in German 3, students will continue creating with the language and expanding their working vocabulary. Students will improve their proficiency across the three modes of communication – Interpretive, Interpersonal and Presentational. In conversational exchanges, students will be better able to initiate, maintain and bring a close to conversations involving more complex situations. By the end of the course, students will be able to express their thoughts and opinions on a variety of relevant topics in a variety of tenses. Students will further explore the practices, products and perspectives of the German-speaking world through exposure to authentic multimedia. Upon successful completion of this course, students will reach the Intermediate-mid proficiency level on the ACTFL Proficiency Guidelines.

ACTFL Proficiency Guidelines:

[https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions\\_0.pdf](https://www.actfl.org/sites/default/files/guidelines/ACTFLProficiencyLevels11x17withFunctions_0.pdf)

Placement examination is given in May.

# Oakland Schools Technical Campus

*Attention athletes: Credits offered at OSTC are not NCAA approved*

## Overview

Oakland Schools Technical Campus – Southeast (OSTC-SE) is an extension of your high school. By attending your high school half of the day and the technical campus the other half of the day, you are experiencing a full academic day. The educational and training opportunities are structured with offerings called clusters. These clusters have been developed around broad occupational areas and contain many different, but related, career training options for students. A team of specialized instructors that possess both a Michigan Teaching Certificate and Vocational Authorization staffs these clusters. This ensures that the staff has both necessary technical expertise and the knowledge of best instructional methodology practices.

OSTC-SE offers students opportunities to explore career areas, prepare for specific college/ advanced training majors, or acquire the skills to go directly into the job market. A number of the programs at OSTC SE qualify students for advanced standing or college credit. Students may elect to attend OSTC-SE for one or two years. The second year of a program is designed to provide advanced work, specialization, and a certificate of completion.

## Credit

The following programs are offered to juniors and seniors on a selective basis. OSTC will recommend high school credit based on the local district requirement (generally 1.5 credits per semester) and issue a grade upon successful completion of the cluster requirements. There are limited prerequisites for attending OSTC. Additional academic credit available upon request.

Remaining credits will be earned at the student's home school. All OSTC students must carry a credit load comparable to regular high school. If regular students carry six (6) credits, the OSTC students must carry three (3) credits at their home high school in addition to three (3) credits at OSTC.

## Sessions

There are two sessions at OSTC-SE:

Morning Session	Classes Begin	7:50 AM
	Classes Dismissed	10:20AM
Afternoon Session	Classes Begin	12:00 PM
	Classes Dismissed	2:30 PM

## Who May Apply

Sophomores and juniors may apply for the following year.

## Transportation

A bus will be provided to transport students to OSTC-SE and back again. Students attending the afternoon session must provide their own transportation home from OSTC-SE or the high schools. Students who elect to drive or ride with another assume all responsibilities connected with transportation.

## Procedure for Applying

Students should speak with their High School Counselor for more information.

Exploration tour provided for current Sophomores and Juniors in the Fall to visit the OSTC campus.

Apply online at [www.ostconline.com](http://www.ostconline.com) by the end of February.

## Questions

Parents who have questions regarding information in this section should contact their student's counselor. For detailed program descriptions, please go to the Oakland School website at the following link.

<http://www.ostconline.com>

Then click on the link to the programs or campuses for more information.

## Southeast Campus (Royal Oak, MI)

5055 Delemere Street

(north of 14 Mile between Crooks and Coolidge)

*Grades 11-12*

**08101 Session 1 AM**

**08102 Session 2 PM**

Automotive Technology - Must begin in 11th grade

Collision Repair and Refinishing

Computer Programming

Computer Networking

Construction Technology

Culinary Arts / Hospitality

Electrical and Energy Technologies

Entrepreneurship & Advanced Marketing

Health Sciences

Machining

Mechatronics

Visual Imaging Technology

Welding

Homeland Security (Criminal Justice or Cyber Security)

## Northeast Campus (Pontiac, MI)

Cosmetology *\*Must begin in 11th grade*

For more information and to register online, please go to the OSTC website at [www.ostconline.com](http://www.ostconline.com).

## **ANTI-DISCRIMINATION GRIEVANCE PROCEDURE**

Any student or employee of the District who believes that he or she has been discriminated against, denied a benefit, or excluded from participation in a district educational program or activity on the basis of sex (including sexual harassment), race, color, religion, national origin, age (employees only), height, weight, marital status, or handicap shall file a written grievance with Assistant Superintendent of Employee Services, who is the designated compliance administrator. Grievance forms may be obtained in the Employee Services Department. Individuals are encouraged to discuss their concern informally with the staff member involved before a formal grievance form is filed. The compliance administrator can often help in attempting to resolve the grievance and will, if the individual desires, accompany him or her at all meetings with staff members.

### **Formal Grievance Procedure**

**Step 1:** If a grievance is not resolved informally, the individual shall submit a written grievance form to the immediate supervisor or administrator within 10 workdays of the incident. The procedure will then be as follows:

1. Not later than next workday - administrator or supervisor must send copy of grievance to Assistant Superintendent of Employee Services.
2. Within 5 workdays of grievance filing date - supervisor or administrator meets with grievant.
3. Within 3 workdays of meeting - supervisor or administrator gives written answer to grievant on grievance form.

### **Step 2:**

4. Within 3 workdays of receipt of answer - grievant (if not satisfied) must appeal to the Assistant Superintendent of Employee Services.
5. Within 10 workdays of receipt of appeal - Assistant Superintendent of Employee Services (or Deputy Superintendent, if appropriate) meets with grievant.
6. Within 5 workdays of meeting - Assistant Superintendent of Employee Services or Deputy Superintendent gives written answer.

### **Step 3:**

7. Within 3 workdays of receipt of answer - grievant (if not satisfied) must appeal to the Superintendent.
8. Within 10 workdays of receipt of appeal - Superintendent meets with grievant.
9. Within 5 workdays of meeting - Superintendent gives written answer. This decision is final and binding on all parties.

### **Additional Provisions**

The Superintendent, Deputy Superintendent, and Assistant Superintendent of Employee Services may designate representatives to act for them in their functions as described above.

A grievance not filed or appealed within the specified time limits will be conclusively deemed abandoned. Failure of any administrator or supervisor to hold a meeting or render a decision allows automatic appeal to the next level. Time limits may be extended only by mutual written agreement.

All records concerning a grievance will be treated confidentially. No record of a grievance will be kept in a staff member's personnel file if the final decision is that there was not reasonable basis for the grievance. No record of a grievance will be kept in the grievant's file.



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