

# High School

# Course Description

# Book

2019 - 2020



# **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 complaints should be directed to:**

**Jordan M. Harris, J.D.  
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**



# **Course Descriptions**

**for**

## **Athens High School and Troy High School**

*Dr. Richard Machesky*  
*Superintendent of Schools*

*Revised February 2019*

# Troy School District



## **Athens High School**

Dr. Lara Dixon, Principal

4333 John R. Rd.

Troy, Michigan 48085

248.823.2900 Main Office

248.823.2913 Fax

248.823.2915 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 2016 and Beyond

DEPARTMENT	REQUIRED CREDITS	REQUIRED COURSES AND CREDITS
<b>English</b>	4.0	<ul style="list-style-type: none"> <li>English 9 Lit/Comp 1 &amp; 2 - 1.0 credit</li> <li>English 10 Lit/Comp 1 &amp; 2 - 1.0 credit</li> <li>English 11 Lit/Comp <i>and</i> 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 General English <b>or</b> 12 English AP 1 &amp; 2 - 1.0 credit</li> </ul>
<b>Science</b>	3.0	<ul style="list-style-type: none"> <li>Introductory Biology A - 1.0 credit</li> <li>Chemistry <i>or</i> 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 - 1.0 credit (or may be met through CTE program completion (e.g. OSTC))</li> <li>Math Elective - 1.0 credit</li> </ul> <p>*TSD high school math credits may be earned through a TSD middle school, but 4 credits of math must be earned while enrolled in high school.</p> <p>*A full year of math, or math-related credit, must be taken during the 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>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 <i>in addition to</i> either 1.0 credit Career Technical Education (CTE) <b>or</b> 1.0 Visual, Performing, or Applied Arts (VPPA)</li> <li>1.0 credit VPPA</li> </ul> <p>*VPPA 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.



# Troy School District Graduation Requirements

**Total Required Credits 18.50 Credits-Total Credits Needed for Graduation 22.5**

## **Class of 2016 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 (Troy High)**

*Grades 9-12. 2 Semesters. ½ credit per semester. No Retake.*

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.

#### **005032 Accounting 3**

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

*Prerequisite: Accounting 2.*

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

Advanced accounting principles dealing with the corporate form of business will be presented. Bad debts, depreciation, notes and interest will be introduced. Computerized simulations will be emphasized extensively throughout the semester. The Accounting 3 course will prepare students for the Principles of Financial Accounting (CLEP) exam which a student may choose to take upon completion. The results of the CLEP exam may entitle the student to college waivers/credit, dependent upon the college.

#### **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 planning, goals, how the market works, investment choices, tracking stocks, bonds, mutual funds, investment fraud, credit, insurance, income taxes, and banking activities. The students will participate in a ten-week statewide stock market game. In addition, this class will utilize financial publications and may have guest speakers from the financial world.



**005052 Business & Personal Law 1**

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

*Prerequisite: None; Business Law courses can be taken in any order.*

Students will study types of laws and legal systems, ethics in law, Constitutional law, the court system, and criminal law. The students will have the opportunity to meet the various law enforcement officials from the community thus developing a genuine respect for them. Also, the students may have the opportunity to visit a local court and jail. Another popular activity will be the in-class mock trial.

**005062 Business & Personal Law 2 (Troy High)**

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

*Prerequisite: None; Business Law courses can be taken in any order.*

Students will study torts, negligence, strict liability, offer and acceptance, genuine agreement, fraud, consideration, minors and contracts, and marriage and divorce. The students will have the opportunity to meet various law enforcement officials from the community. Also, the students may have the opportunity to visit a local court and jail. Another popular activity will be the in-class mock trial.

**005292 Business & Personal Law 3 (Troy High)**

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

*Prerequisite: None; Business Law courses can be taken in any order.*

Students will study employment law, consumer protection laws, corporate law, environmental law, and international law. The students will have the opportunity to meet various law enforcement officers from the community. Also, the students may have the opportunity to visit a local court and jail. Another popular activity will be the in-class mock trial. Note: Upon completion of Law 1, 2, and 3, the student will be eligible to take the CLEP exam for college credit.

**Business Management****005242 Business Management and Technology**

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

*Prerequisite: None.*

This course will begin with a unit presentation of the keyboard with emphasis on skill development in speed and accuracy. The course will continue exposing students to hands-on business applications using Microsoft Office. It will cover applications such as Word, Excel, and Power Point and learning the Internet for business purposes. The students will integrate all three applications to create documents, presentations, and spreadsheets in a “mock” business setting. Resumes, cover letters, interview skills, presentation skills, career search skills, and various introductory business topics will be discussed during this semester long course.

**005232 Business Ownership (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.

**205024 Junior Business Internship Co-op****008844 Senior Business Internship Co-op**

*Grade 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**

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

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**

*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 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.*

This course is a prerequisite for Marketing Lab (School Store). Students are introduced to basic principles of economics, entrepreneurship, business ethics, marketing strategies, marketing functions and market research. See *Marketing Co-op* course description for possible co-op credit.

### 005252 Marketing 2 (Sales & Social

**Media) Grades 10-12. 1 semester. ½ credit. No**

*Retake. Prerequisite: Marketing.*

◆ *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, pricing strategies, and distribution methods. Students will be exposed to Permission Marketing and Customer Relationship Management through social media. (See Marketing Internship course description for possible co-op credit.)

### 005223 Honors Marketing

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

*Prerequisite: Marketing.*

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

The purpose of the course is to introduce students to the role of marketing in society and within a firm, understanding consumer and organizational markets, marketing strategy planning, the marketing mix, marketing institutions, and other selected topics such as international marketing, ethics, marketing research, services and not-for-profit marketing. Students will gain a basic knowledge of the economic/demographic, social/cultural, political/legal, and technological trends that are important to marketing. The Honors Marketing course will prepare students for the 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.

### 005172 Fashion Merchandising

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

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

This course will introduce students to careers available in the fashion industry, from design and manufacturing to sales. It will also present elements necessary for the proper marketing of fashion apparel. Project-based learning such as a student-run fashion show may be part of this class. (See Marketing Internship course description for possible co-op credit.)

### 005182 Sports and Entertainment Marketing (Athens)

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

*Prerequisite: Marketing.*

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 to make this 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 will 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.

### 005113 School-Based Enterprise

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

*Prerequisite: Marketing 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 the *Marketing* course to 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 Co-op* course description for possible co-op credit.

### 005214 Marketing Internship

*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.



# English Department

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

## **100043 9 English Literature/Composition 1**

*1 semester. ½ credit. No Retake. Prerequisite: None.*

This course is designed to further students' proficiency in reading, speaking, writing and listening. The course will increase students' knowledge of grammar and vocabulary as well as improve their skills in note taking, public speaking, listening and library research. The course will also focus on literature through the study of novels, non-fiction essays, and poetry. Summer Reading is required.

## **200043 9 English Literature/Composition 2**

*1 semester. ½ credit. No Retake. Prerequisite: None.*

Students will continue to develop the skills learned in 9 English Literature and Composition 1. The focus of this semester will be on different forms of literature including drama, short stories, and novels. Students will also continue their study of writing, specifically the three-part essay, and further their vocabulary development. Summer reading is required.

## **000023 English Lab (Troy High)**

*2 semesters. ½ credit per semester.*

*Prerequisite: 8<sup>th</sup> or 9<sup>th</sup> grade teacher recommendation.*

This course is designed to support students who need to advance their reading and writing skills for success in their English Literature and Composition class. Instruction will be on improving literacy to become successful readers, writers, and critical thinkers. Students will be expected to work independently and in groups in a variety of areas including independent reading, extended discussion of text, vocabulary improvement, comprehension strategies, and writing with extensive revision in various genres.

## **100053 9 Honors English Literature/Composition 1**

*1 semester. ½ credit. No Retake.*

*Prerequisite: 8<sup>th</sup> or 9<sup>th</sup> grade English teacher recommendation.*

This course is designed for the motivated student with superior English skills. The goal of this course is to increase the advanced student's proficiency at essay writing as well as to improve his/her skills in grammar, note taking, research and public speaking. The course also introduces the student to the analysis of poetry and the classic novel. Summer reading is required.

## **200053 9 Honors English Literature/Composition 2**

*1 semester. ½ credit. No Retake.*

*Prerequisite: 8<sup>th</sup> or 9<sup>th</sup> grade teacher recommendation.*

Students will continue to develop the skills they learned in 9 Honors Literature and Composition 1. The goal of the course is to increase advanced students' reading and writing proficiency through the study of the short story, drama, and the novel. The curriculum also emphasizes writing. Summer reading is required.

## **100063 10 English Literature/Composition 1**

*1 semester. ½ credit. No Retake.*

*Prerequisite: 9 English Lit/Comp 1 & 2.*

This course is designed to help students write more effectively and accurately with emphasis on writing in response to literature and themes. The three-part essay will be addressed in terms of grammar, mechanics, diction and writing style. Literary genres include the novel, short stories, and poetry. Essay formats include classification, character analysis, cause/effect, comparison/contrast and in-class writing. SAT-type vocabulary will also be studied. Summer reading is required.

## **200063 10 English Literature/Composition 2**

*1 semester. ½ credit. No Retake.*

*Prerequisite: 9 English Lit/Comp 1 & 2.*

Students will continue to develop the skills learned in 10 English Literature and Composition 1. The focus of this semester will be on different forms of literature including drama, short stories, and novels. Students will also continue their study of writing and further their vocabulary development. Essay formats include research, persuasive and in-class writing. Summer Reading is required THS.

## **100073 10 Honors English Literature/Composition 1**

*1 semester. ½ credit. No Retake.*

*Prerequisite: 9 Honors English Lit/Comp or teacher recommendation.*

This class is designed for students with superior English skills to advance the writing and reading proficiency acquired in 9 Honors English Literature and Composition 1 and 2. The study of literature will focus on analysis of novels, drama, short stories, and poetry. SAT-type vocabulary will also be studied. Teacher recommendation is needed to take this in place of the required 10<sup>th</sup> grade English course. Summer reading is required.

## **200073 10 Honors English Literature/Composition 2**

*1 semester. ½ credit. No Retake.*

*Prerequisite: 9 Honors English Lit/Comp or teacher recommendation.*

This class is designed for students with superior English skills to advance the writing and reading proficiency acquired in 9 Honors Literature and Composition 1 and 2. The study of literature will focus on analysis of novels, drama, short stories, and poetry. SAT-type vocabulary will also be studied. Teacher recommendation is needed to take this in place of the required 10<sup>th</sup> grade English course. Summer reading is required.

## **000082 11 English Literature/Composition**

*1 semester. ½ credit. No Retake.*

*Prerequisite: 10 English Lit/Comp.*

This course is a prerequisite for 12 English Lit/Comp. This class is designed both as a survey of major American writers and as a composition class. Critical and analytical papers and research-based activities of the American works will be the focus of the class. The literary focus of this course provides the necessary background to meet the demands of 12 English Lit/Comp. Summer reading is required.



**100443 11 English AP 1**

*1 semester. ½ credit. No Retake.*

*Prerequisite: B or better in 10 Honors English Lit/Comp or teacher recommendation.*

This class is for advanced students who wish to begin their preparation for the AP Language and Composition Examination. Students will improve their writing through systematic study of literary devices used by American authors from major periods. The breadth of writing assignments will lay the foundation for the exam. Close reading for style and tone will be explored; timed, critical and analytical writing will be practiced frequently. Review of grammatical and syntactical structure of language will enhance student achievement. This course satisfies the 11<sup>th</sup> grade English requirement. Summer Reading is required.

**200443 11 English AP 2**

*1 semester. ½ credit. No Retake.*

*Prerequisite: B or better in 11 English AP 1 or teacher recommendation.*

This course is an elective continuation of 11 English AP 1. In this course students will read a variety of nonfiction texts and examine basic elements of rhetoric: writing with a purpose, addressing an audience, creating appealing text structure, and utilizing an appropriate style. 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.

**000113 12 English Lit/Comp**

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

*Prerequisite: 11 English Lit/Composition.*

This course is designed for the senior headed to a four-year university or college after high school. The course will emphasize the development of more sophisticated communication skills, including vocabulary enrichment, expository composition skills, oral presentations, and research skills. World literature from a variety of periods will be analyzed in great depth. High expectation and a rigorous pace are key components for this class. Summer Reading is required.

**000102 12 General English (Semester 1)**

*1 semester. ½ credit. No Retake.*

**000202 12 General English (Semester 2)**

*1 semester. ½ credit. No Retake.*

This course is offered for students who may be planning on attending a four-year college but earned lower than a C in 11 Literature/Composition. Emphasis will be placed on vocabulary enrichment, critical thinking, and research skills. A mature interpretation of literature will be stressed, using critical and analytical thinking and writing skills. Summer Reading is required.

**000453 12 English AP 1 & 2**

*1 semester per course. ½ credit per semester. No Retake.*

*Prerequisite: 10 Honors English, 11 English 1 & 2 AP, or teacher recommendation.*

Designed for seniors who excel in English language skills, this course 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. 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. No Retake.*

*Prerequisite: 9th grade English requirements.*

*\*Creative Writing 1 & 2 can be taken in any order.*

*\*\*Meets NCAA requirements.*

Students will develop a creative approach to writing by drafting, conferencing, editing, and completing a wide range of writing assignments. Some of the genres explored are poetry, the short story, the personal essay, and scripts. Students will be expected to write a great deal and to share, critique, and analyze each other's work.

**000192 Creative Writing 2**

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

*Prerequisite: 9th grade English requirements.*

*\*Creative Writing 1 & 2 can be taken in any order.*

*\*\*Meets NCAA requirements.*

This class is designed to inspire writers to develop abilities and talents in various areas of writing, such as poetry, essays, and short stories. Independent projects are stressed so students have the opportunity to seriously delve into areas in which they have the most interest.

**000232 Classical Mythology and Drama**

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

*Prerequisite: None.*

*\*\*Meets NCAA requirements.*

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 assignments 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.

**000212 Film and Literature**

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



**000312 Literature of Suspense**

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

*Prerequisite: 9th Grade English requirements.*

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

This course is designed for the students 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.

**000382 Science Fiction**

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

*Prerequisite: None.*

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

This course is designed for students 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.

**000132 Voices in Literature**

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

*Prerequisite: None (10th grade students accepted w/ English teacher approval.)*

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 cultures who detail vastly different life experiences. Reading will occur both in and out of the classroom. Discussion, analysis, and writing will also constitute classtime. Critical reading skills will be developed, as will writing styles and discussion skills.

**000322 Sports Literature**

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

*Prerequisite: 9th Grade English Lit/Composition.*

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

Sports Literature is designed for students 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.

**000352 Personal Communication**

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

*Prerequisite: None.*

This course is designed to involve students in the study of communication. Students will explore interpersonal communication, nonverbal/verbal communication, listening and speaking skills. 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.

**000392 Speech 1**

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

*Prerequisite: None.*

**\*\*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 explore small group and large group discussion, informative, broadcasting, sales and persuasive speaking styles. It is especially recommended for students interested in careers in law, politics, education, and broadcasting.

**000142 Speech 2**

*Grades 10-12. 1 semester. ½ credit. 2 Retakes.*

*Prerequisite: B or better in Speech 1 or teacher recommendation.*

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

This course is designed for potentially advanced public speakers. 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.

**000492 Debate 1**

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

*Prerequisite: B or better in English or English teacher recommendation.*

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

This course will provide an opportunity for developing an individual's ability to present formal debate. The subject material will deal with the national high school debate topic for the year. Students will learn how to research the debate topic and to participate in formal debate. Critical and analytical papers will be assigned to accompany the formal research topics. It is recommended for students who want to learn how to debate formally and for students who want to participate in competitive debate.

**000502 Debate 2**

*Grades 10-12. 1 semester. ½ credit. 2 Retakes.*

*Prerequisite: Debate 1, teacher recommendation, or B or better in English.*

**\*\*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. Participation on the Debate Team is recommended. Debate Team members are expected to take this class.

**000242 Modern Shakespeare**

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

*Prerequisite: None*

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.

**000272 Writing for Publication: Journalism (Athens)**

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

*Prerequisite: None.*

This course is 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 9-12. 2 semesters. ½ credit per semester.*

*Prerequisite: Instructor approval.*

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.

**000343 Writing for Publication: Yearbook**

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

*Prerequisite: Instructor approval.*

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.

**000342 Writing for Broadcasting**

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

*Prerequisite: English teacher approval.*

*\*10th grade students may elect this course (with teacher approval) if they completed the Video Technology course in middle school with a grade of B or better.*

This course is designed to offer students 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.

**000362 Advanced Writing for Broadcasting**

*Grades 11-12. 1 semester. ½ credit. 2 Retakes.*

*Prerequisite: B or better in Writing for Broadcasting or teacher recommendation.*

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.

**000353 Advanced Publication Production**

*Grades 11-12. 1 semester. ½ credit. 2 Retakes.*

*Prerequisite: Writing for Publication: Newspaper OR Yearbook.*

This course is designed to allow advanced publication students 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.



# ELD Department

## English Language Development

*\* 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 the counselor or ELD specialist before enrolling in these courses.

### ENGLISH LANGUAGE DEVELOPMENT

#### **101013 Beginner ELD**

#### **201013 Beginner ELD**

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

*Prerequisite: Placement by ELD specialist. Graded conventionally.*

For English Learners (ELs) who are new to the United States. This course will assist the non-native speaker in acquiring the basic skills of listening, speaking, reading, and writing in English. Immediate needs of communication and cultural adaptation are met in a setting that nurtures and refines beginning language acquisition. *Students may enroll concurrently in EL Tutorial.*

### ELD LANGUAGE ARTS

#### **101023 Intermediate ELD**

#### **101023 Intermediate ELD**

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

*Prerequisite: Placement by ELD specialist. Graded conventionally.*

Intermediate ELD is the language arts class for intermediate English Learners. Vocabulary building and refinement of grammar are stressed while students explore various genres of literature. ELs will use the writing process to develop increasingly complex forms of written response. Improved reading comprehension and overall fluency in all four language skills (listening, speaking, reading, and writing) are addressed. *Students may enroll concurrently in EL Tutorial.*

#### **101033 Advanced ELD**

#### **201033 Advanced ELD**

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

*Prerequisite: Placement by ELD specialist. Graded conventionally.*

Advance ELD is the language arts class for advanced English Learners. Vocabulary building and refinement of grammar are stressed while students explore various genres of literature. ELs will use the writing process to develop increasingly complex forms of written response. Improved reading comprehension and overall fluency in all four language skills (listening, speaking, reading, and writing) as well as comprehension are addressed. Students may enroll concurrently in EL Tutorial.

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

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

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

*Prerequisite: Placement by ELD specialist. Graded conventionally.*

Bridging to English Literature & Composition for ELs 1 and 2: This course is designed to bridge students between the ELD program and general education 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 have an emphasis on literary analysis and writing skills necessary for English Learners preparing for general education English courses.

## ELD CONTENT AND LANGUAGE SUPPORT

#### **101103 EL Tutorial**

#### **201103 EL Tutorial**

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

*Retakes allowed.*

*Prerequisite: Placement by ELD specialist. WIDA Level 1-3*

*Graded G/H (pass/fail).*

This class helps ELs (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 proficiency while gaining the necessary skills to complete assignments and effectively access subject area information. Students become familiar with note taking, test preparation, personal organization, and time management.

### LANGUAGE SUPPORT CONTENT CLASSES \*

These courses are offered as needed. Please check with counselor for availability. ½ credit per semester. Placement by ELD specialist and prior year's content teacher.

#### **104703 LS Biology**

#### **204703 LS Biology**

#### **004313 LS Introductory Physics**

#### **002272 LS World History/Geography 1**

#### **002282 LS World History/Geography 2**

#### **102703 LS American History/Geography 1**

#### **202703 LS American History/Geography 2**

#### **002092 LS Government/Civics**

#### **002422 LS Economics**

#### **008862 LS Health**

*\*Note: ELD and LS content classes are not offered at all times. Please check with counselor or ELD specialist.*



# Fine Arts Department

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

## Visual Arts

### **006202 Fundamentals of Art**

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

*Prerequisite: None*

This is an introductory art course designed to develop basic skills in drawing, color, and three-dimensional design. Included is the use and care of art materials and tools and the introduction and understanding of art terminology.

### **006232 Drawing 1**

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

*Prerequisite: Fundamentals of Art*

This course is an introduction to basic drawing principles and techniques. Students will learn about drawing in black and white media using pencils, charcoal, markers and scratch board. Assignments will include drawing man-made objects, mechanical forms, natural forms, portraiture, life drawing, action drawing, and perspective drawing. The course will also serve as an introduction to the use of colored pencils.

### **006242 Drawing 2**

*Grades 10-12. 1 semester. ½ credit. 2 Retakes.*

*Prerequisite: Drawing 1*

This course is a continuation of Drawing 1 with emphasis on colored drawing media. Drawing 2 units may explore colored pencil, chalk pastel, oil pastel, ink wash, aqua sketch, acrylic paint and markers. Students will cover advanced drawing techniques, preparing them for Studio Art/Advanced Placement Art.

### **006252 Painting 1**

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

*Prerequisite: Fundamentals of Art*

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

### **006262 Painting 2**

*Grades 10-12. 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.

### **006272 Ceramics 1**

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

*Prerequisite: Fundamentals of Art*

The aim of this course is to teach the following methods of working with clay: pinch, coil, slab and sculpture. All work will be done by hand; no plaster molds will be used.

### **006282 Ceramics 2**

*Grades 10-12. 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.

### **006312 Metals 1 (Troy High)**

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

*Prerequisite: Fundamentals of Art*

This course will introduce students to working with metals such as aluminum, brass and copper. Basic jewelry fabrication techniques will be covered including: designing, cutting, joining, bending and finishing.

### **006322 Metals 2 (Troy High)**

*Grades 10-12. 1 semester. ½ credit. 2 Retakes.*

*Prerequisite: Metals 1*

Students will learn about pattern making and more advanced metal fabrication techniques. Larger and more elaborate projects may include but will not be limited to: creating tin toys and designing matched sets of jewelry elements.

### **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.

### **006373 Studio Art**

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

*Prerequisite: Instructor approval*

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.

### **006393 Advanced Art AP**

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

*Prerequisite: Instructor approval*

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 preparation.

### **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 learned to create interesting works of art based on specific themes.

### **006432 Computer Graphics 2**

*Grades 10-12. 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.

### **006352 Cartoons, Comics & Animation (Troy High)**

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

*Prerequisite: Fundamentals of Art*

This course explores the history of illustration from the simplest cartoon through dramatic comic book story illustrations, to 2D Disney-type animation. The students will become familiar with the tools and techniques used in each discipline and will produce an example of a single-frame cartoon, a three-frame strip cartoon, a comic book cover and interior pages, and a short animated sequence for a 2D character.

### **006292 Sculpture**

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

*Prerequisite: Fundamentals of Art*

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 (Athens) Computer Graphics 1 (Troy High)* 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 art work, 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 art work. The production and analysis of expressive and thoughtful art work is the main objective of this course.

### **007132 Principles of Photography 2 (Athens)**

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

*Prerequisite: Principles of Photography 1.*

This course is designed for the student who is serious about advanced photographic and darkroom techniques. It will provide the student with a sound working knowledge of camera types and functions. The course covers and refines Photoshop skills and techniques. Students produce final projects suitable for presentation, web pages, home display, or contest entries. There may be a charge for materials.

## **Instrumental Music**

### **006003 Symphonic Band**

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

*Prerequisite: Audition with band director, as well as previous experience playing a wind or percussion instrument.*

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.

### **006013 Concert Band**

### **006143 Cadet Band (Troy High)**

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

*Prerequisite: Previous music participation/experience/study or teacher approval.*

This course will stress the fundamentals of group performance and interpretation of fine band literature from all periods of history. Attendance is required at all scheduled activities. 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.

### **006002 Color Guard**

*Grades 9-12. 1 semester. ½ credit per semester. 3 Retakes.*

*Prerequisite: Audition with Band Director.*

Color Guard is to interpret the music that the marching band is playing via the synchronized spinning of flags and through dance.

### **006023 Campus Band**

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

*Prerequisite: Middle school / high school band director recommendation.*

This course is primarily for incoming 9th graders. It may include students from other bands who wish to learn a secondary instrument, as well as upper classmen requiring further musical development. This course will stress the fundamentals of music and deal with the challenges and complexities of group performance.

### **006104 Percussion**

*Grades 9-12. 1 semester. ½ credit per semester. 3 Retakes.*

*Prerequisite: Audition and director approval.*

Drumline is a performance ensemble for the new and developing band student. Students in the drumline will study, practice and perform a wide- variety of percussion literature with emphasis on the continual development of technical facility, precision movement and musical notation reading skills.

### **006033 Jazz Ensemble**

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

*Prerequisite: Audition with band director.*

Ensemble members must play one of the following instruments: saxophone, trumpet, trombone, piano, vibes, electric guitar, electric or acoustic bass, or drum set. Ensemble members need to be musically literate and maintain a high level of musical proficiency. Course of study will include improvisation and performances of original jazz charts plus mastery of the various techniques demanded by this type of ensemble.

### **006042 Jazz Explorations**

*Grades 9-12. 1 semester. ½ credit per semester. 3 Retakes.*

*Prerequisite: Previous music participation/experience/study or teacher approval.*

The primary objective of Jazz Explorations is to provide student musicians the opportunity to freely explore jazz – it’s history, theory and performance practices through extensive listening and analysis. Students will perform standard literature in various jazz styles and explore fundamentals of improvisation. All musicians regardless of instrument are invited to enroll.

### **006063 Symphony Orchestra**

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

*2 Retakes at THS. 3 Retakes at AHS.*

*Prerequisite: Previous orchestra experience and consent of instructor, based on audition.*

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.

### **006073 Concert Orchestra**

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

*2 Retakes at THS. 3 Retakes at AHS.*

*Prerequisite: Previous orchestra experience and consent of instructor.*

This course is open to all students who play violin, viola, cello, double bass, or harp. It may be complemented by concert band to form a full orchestra. 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.

### **006083 Freshman Orchestra (Troy High)**

*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 Troy High, incoming 9th grade students are not eligible for Concert or Symphony Orchestra.*

This course is for all 9th grade students at Troy High 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.

### **006093 Philharmonic Orchestra**

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

*Prerequisite: Previous orchestra experience required and consent of instructor, based on audition.*

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.

## Theatre Arts

### 000402 Introduction to Theatre

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

*Prerequisite: None.*

Characterization, improvisation, and pantomime will be part of your day in Introduction to Theatre. We will also explore stage movement, role-playing, theatre language, and short scenes. A memorized scene will be performed at the end of the semester. Field trips to area theatres are a possibility.

### 000162 Youth Theatre

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

*Prerequisite: Introduction to Theatre or teacher approval.*

*Youth Theatre* is a performance-based class. Improvisation is taken to a new level in this class. *Youth Theatre* will give you the opportunity to perform children's plays for elementary school students. Field trips to area theatres are a possibility.

### 000412 Theatre II

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

*Prerequisite: Introduction to Theatre or teacher approval.*

There are many activities involved in play production. This class will explore set design, lighting, costuming, make-up, directing, and acting at an advanced level. Field trips to area theatres are a possibility.

### 000422 Theatre III - Acting for Film (Athens)

*Grades 10-12. 1 semester. ½ credit. 2 Retakes.*

*Prerequisite: Advanced Theatre Studies or teacher approval.*

This is a course designed for advanced theatre students. Your course of study is planned around any aspect of theatre that interests you (i.e., acting, directing, technical work, theatre history, etc.). Explore and improve your theatrical skills through direct experience. Field trips to area theatres are a possibility.

## Vocal Music

### 006123 Mixed Chorus

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

*Prerequisite: None.*

This is a beginning course for students with middle or high school choral experience or for those students wishing to gain the experience. Basic fundamentals of singing are stressed, and performances will be required during the school year.

### 006103 Concert Choir

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

*Prerequisite: Previous choral experience or audition and consent of instructor.*

*Concert Choir* is more advanced than *Mixed Chorus* and is, therefore, open to students who exhibit strong skills in sight reading and vocal accuracy. Three to five concerts are required of students plus festival participation and selected experiences.

### 006113 Treble Choir

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

*Prerequisite: None.*

This is a choir for girls with some previous choral experience and training. Sight-reading and other advanced singing techniques are stressed. A performance is given each semester. Special vocal ensembles are selected from the members. Performances will be required during the school year.

### 006133 Madrigal Singers

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

*Prerequisite: Audition and consent of instructor.*

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.

### 006132 Chorus / Choir Accompanist

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

*Prerequisite: Audition and consent of instructor.*

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 ability. Accompanists need not be a chorus or choir member or have previous choral experience. Time will be given for individual practice during class.

## Music Theory

### 006053 AP Music Theory

*Grade 10-12. 2 semesters. ½ credit per semester. 1 Retake.*

*Prerequisite: Previous music participation/experience/study or teacher approval.*

A major component of any college curriculum in music is a course introducing the first-year student to music theory, a subject that comprises the musical materials and procedures of the Common Practice period. Such a course may bear a variety of titles (Basic Musicianship, Elementary Theory, Harmony and Dictation, Structure of Music, etc.). It may emphasize one aspect of music, such as harmony; more often, however, it integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and to some extent, history and style. Musicianship skills such as dictation and other listening skills, sight-singing, and keyboard harmony are considered an important part of the theory course, although they may be taught as separate classes. The student's ability to read and write musical notation is fundamental to such a course. It is also assumed that the student has acquired (or is acquiring) at least basic performance skills in voice or on an instrument. The ultimate goal of an Advanced Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. The achievement of these goals may best be approached by initially addressing fundamental aural, analytical, and compositional skills using both listening and written exercises. Building on this foundation, the course should progress to include more creative tasks, such as the harmonization of a melody by selecting appropriate chords, composing a musical bass line to provide two-voice counterpoint, or the realization of figured-bass notation.



# Health Department

---

## **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**

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

# Industrial Technology Department

---

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

## **007003 Automotive Technology 1 (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.**

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.

## **007294 Automotive Tech 2 (Troy High)**

*Grades 10-12. 2 semesters. 1 credit per semester. 2 Retakes. 2-Hour Block class.*

*Prerequisite: C or better in Automotive Technology 1.*

**\*Course satisfies ½ 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.

## **007213 Automotive Technology 3 (Troy High)**

## **007413 Automotive Technology 4 (Troy High)**

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

*Prerequisite: C or better Automotive Technology 2, Teacher Approval Required.*

**\*Course satisfies ½ 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.

## **007163 Woodworking Design & Fabrication 1**

*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.**

*Woodworking Design & Fabrication 1* is a class designed to introduce students to the designing, drawing, and manufacturing of both required and personal projects using different types of materials, tools, and construction techniques. 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.

## **007173 Woodworking Design & Fabrication 2**

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

*Prerequisite: Woodworking Design 1 or teacher approval.*

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

*Woodworking Design & Fabrication 2* is a continuation of *Woodworking Design & Fabrication 1*. 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.

## **007183 Woodworking Design & Fabrication 3**

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

*Prerequisite: Woodworking Design 1 & 2.*

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

This course is designed to continue the knowledge of the woodworking curriculum and to introduce the skills, tools, and techniques needed to understand home maintenance and repair. Emphasis will be placed on large furniture design and construction. Students will become familiar with basic electrical, plumbing, drywall, trim, and cabinetry. As a result of this course, students gain an understanding of the skills needed to do repairs around the house.

**108703/208703 Emerging Engineering Technology 1 A & B**

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.*

Uses various computer programs to design (CAD) and program (CAM) modern industrial technologies, such as CNC and rapid prototyping (3D printing). Students will learn how industrial robots are programmed and controlled. Use mathematics, science, and technology concepts and processes to solve problems in projects involving design and/or production. Students will also learn about basic electronics, schematics, gears, simple machines, two and four stroke internal combustion engines, and fasteners.

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

**208704/208704 Emerging Engineering Technology 2 A & B**

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.*

This hands on, inquiry-based course allows students opportunities to incorporate Science, Technology, Engineering, and Math into projects with real world applications. Students will work in collaborative groups to design, budget, and manufacture. This course meets the requirements of a 4th year math-related course or can count toward an engineering elective.

**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.*

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.*

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.

**007142 Introduction to Animation**

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

Prerequisite: Emerging Engineering Technology 1.

This course examines 3DsMax: a powerful three-dimensional program used in design for engineering, architectural and entertainment. Content area in this course include: viewport navigation, coordinate system, transform tools, modifier stack and material editor, basic animation with curve editor and dope sheet. Students will complete a final project in rendering three dimensional objects.



# Life Skills Department

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

## **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 thoroughly explored in this course. Students will understand the changes parenthood brings and how to adjust to them. This course covers human reproduction, prenatal planning, preparation, care, and development; birth process and options for delivery; bonding, postnatal care, development and care of the child during the first year; and child care. 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 1.*

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

This course begins where *Parenthood/Child Development 1* stopped. Care and development of the child from the first birthday through adolescence are the focus of this course. The social, emotional, physical, and intellectual needs of the child at each age will be explored thoroughly. Child care will be more extensively discussed in terms of quality, options, and opportunities.

## **007252 Personal Living**

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

*Prerequisite: None.*

Personal Living prepares students to function in multiple roles of day-to-day living and working throughout their life cycle. Through class discussion, practical activities and community based field trips the students will develop the thought process and skills needed to become contributing members of society as a family member, worker, citizen, and life-long learner. This course deals with developing and practicing basic human needs such as: self-awareness, coping skills, nutrition and food preparation, dating relationships and responsible health decisions. In this class, students will research and prepare for future careers by completing job applications, preparing resumes and cover letters and partaking in mock job interviews. They will also learn financial responsibility by establishing and maintaining a realistic monthly budget. Instruction in Personal living not only helps learners with their present developmental tasks, but also will be overall preparation for life after high school.

## **007272 Personal Money Management (Troy High)**

*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 class helps students develop skills in consumer spending, from actual purchases to managing finances to understanding the role of the consumer in the marketplace. Areas covered will include: your consumer behavior-values, decision-making; managing finances; being an informed consumer--ads, advertising, getting information, planning a purchase, and complaining; purchase of basic necessities--food, clothing, health, grooming; purchase of big-ticket items--transportation, shelter, home furnishings, appliances; purchase of services--health, life insurance, legal services, personal services, leisure; and your role in the marketplace--economic system, effect on consumer.

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

*Grades 9-12. 1 Semester. ½ Credit. No Retake.*

*Prerequisite: None.*

This class covers many areas of food preparation. All parts of the meal, safety, cleanliness in the kitchen, food selection, label analysis, nutrition, and table setting will be studied. A variety of foods will be prepared while learning food preparation skills. Foods from other cultures will be studied and prepared.

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

*Grades 11-12. 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. Tie-dye will be used to explore color. Texture and Fabric performance will be studied as they relate to clothing construction. A minimum of 3 garments will be made throughout the course, based on the learned principles. There will be an opportunity for those interested to model and/or display their garments at an annual school fashion show. This course focus is on sewing and construction of garments.

## **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 sew more difficult garments. They will learn more advanced techniques. They will be required to use the serger and the embroidery 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.*

Create a variety of textures with yarn, including crewel, needlepoint, embroidery, cross-stitch, quilting, knitting, and crocheting. Learn to block and finish items.

**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.



## Child Care 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, ethics in education, and diversity in classrooms. They will gain communication, technical, and collaboration skills needed in the workforce. Students will observe and assist children in the Troy Athens Preschool located at 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 Math, Science, or World Language requirements (Careers in Education 2 required).

Advance Placement credits are offered at Central University, Saginaw Valley State University, Macomb Community College, and Davenport University (Careers in Education 2 required).

*Students that are a senior OR complete both Careers in Education 1 and 2 are eligible to receive a Paraprofessional Certificate.*

**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 school aged development, classroom management, current issues in education, lesson planning, and career options. Students will observe and assist in the Troy Athens Preschool located at Athens. Students will also work with an elementary teacher and children in a classroom setting, applying what they have learned during class. Students who complete the course may use CTE Program Completion Credits toward Math, Science, or World Language requirements. Advance Placement credits are offered at Central University, Saginaw Valley State 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 Paraprofessional Certificate.

*Students that are a senior OR complete both Careers in Education 1 and 2 are eligible to receive a Paraprofessional Certificate.*



# Hospitality / Food Services Occupations

---

## Food Services Program

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

**007384 Restaurant Operations / Terrace Cafe (Athens) Grades 10-12. 2 semesters. 2 hours. 2 credits. Retake.**

◆**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 Cafe. 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 10-12. 2 semesters. ½ credit per semester. Retake.**

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 Cafe. 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 10-12. 2 semesters. ½ credit per semester. Retake.**

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 Cafe. 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.





# Mathematics Department

## 003043 Algebra 1

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

Content includes multiple representations of linear, absolute value, quadratic, rational, polynomial, power and exponential functions. Students will do calculations with real and complex numbers and solve various equations and inequalities.

## 003143 Algebra Connections

*Grade levels 9-12. 2 semesters. ½ credit per semester.*

*Prerequisites: Teacher recommendation and concurrent enrollment in Algebra 1.* This co-taught math class offers students a small-group instructional setting where individual math needs can be met. The purpose of this course is three-fold, to provide targeted instruction in areas of mathematical need, to support the core Algebra class and to build students' confidence and metacognitive skills in mathematics.

## 003063 Geometry

*Grades 9-11. 2 semesters. ½ credit per semester. No Retake.*

*Prerequisite: Completion of Algebra 1.*

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 congruency and coordinate geometry.

## 003363 Geometry Connections

*Grades 9-11. 2 semesters. ½ credit per semester. No Retake.*

*Prerequisite: Teacher recommendation and concurrent enrollment in Geometry 1.*

This co-taught math class offers students a small-group instructional setting where individual math needs can be met. The purpose of this course is three-fold: to provide targeted support for foundational math skills, to support the core Geometry class, and to build students' confidence and metacognitive skills in mathematics.

## 003930 Geometry Honors

*Grade 9-10. 2 semesters. ½ credit per semester. No Retake.*

*Prerequisite: B or better in Algebra 1 Honors.*

This course includes all of the topics for Geometry at an advanced level with an emphasis on problem solving.

## 003263 Algebra 2 Part A (Equivalent to Algebra 2, Semester 1)

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

*Prerequisite: Teacher recommendation, credit in Algebra 1 & Geometry.* This 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.

## 003273 Algebra 2 Part B (Equivalent to Algebra 2, Semester 2)

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

*Prerequisite: Teacher recommendation, credit in Algebra 1, credit in Geometry, and credit in Algebra 2 Part A.*

This course content includes exponential and logarithmic functions, statistics and data analysis, probability, 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, conic sections, and logarithms.

## 003093 Algebra 2

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: C or better in 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.

## 003183 Algebra 2 Honors

*Grade 9-11. 2 semesters. ½ credit per semester. No Retake.*

*Prerequisite: B or better in Honors Geometry.*

This course includes all of the topics for Algebra 2 at an advanced level with an emphasis on problem solving.

## 003233 Precalculus

*Grades 11-12. 2 semesters. ½ credit per semester. No retake. Prerequisite: B or better in Algebra 2 or teacher recommendation.*

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.

## 003253 Precalculus Honors

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

This course includes all the topics for Precalculus at an advanced level with an emphasis on problem solving plus derivatives.

## 003023 College Algebra (Troy High)

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: C or lower in Algebra 2 or D or better in Algebra 2 Part B.* This is a course for students that have completed Algebra 2. 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.

## 003123 Operations Research

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

*Prerequisite: Completion of Algebra 2.*

In this course, students learn how to use mathematics based decision-making tools from the field of Operations Research. Students are faced with a series of real-world problems as they build on the skills they learned in Algebra 2. Problem contexts in the deterministic section of the course include linear programming, the critical path method, facility location problems, transportation problems and multi-criteria decision making. In the probabilistic curriculum, topics include probability distributions and decision trees. problems and multi-criteria decision making. In the probabilistic curriculum, topics include probability distributions and decision trees.

## 003173 Calculus AB AP

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

Calculus AB AP is an advanced placement course designed for the student with a very strong aptitude for mathematics. An Advanced Placement test is made available to the student if college credit is desired. The course includes both differential and integral calculus with special emphasis on applications and manipulative skills.

## 003203 Calculus BC AP

*Grades 9-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: B or better in Precalculus Honors and teacher recommendation.*

*\*Students should have a working knowledge of the graphing calculator to include graphing with arbitrary windows and finding zeroes of a function.* 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 sequence 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.



### 003213 Statistics AP

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

Prerequisite: Completed Algebra 2 with a B or better and currently or previously enrolled in Precalculus.

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: Calculus BC - AP (with a B or better), Statistics AP (with a B or better, may be concurrently enrolled).

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 (with a B or better).

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.

### 003112 Computer Explorations (Troy High)

Grades 9-12. 1 semester. ½ credit.

Prerequisite: None.

This course explores the use of computers in everyday applications such as word processing, database, spreadsheet, PowerPoint and desktop publishing. Students will integrate these applications to prepare presentations, resumes, reports, and to solve problems. Students who have difficulty with mathematics may elect this course. Keyboarding is beneficial but not required.

### 003142 Computer Science 1

Grades 9-12. 1 semester. ½ credit.

Prerequisite: Completion of Algebra 1.

No prior programming experience is necessary. Computer Science 1 is an introduction to computer programming in a structured language for the college bound student. Computer Science 1 is the standard course for students who wish to study programming techniques.

### 003162 Computer Science A AP

Grades 10-12. 1 semester. ½ credit.

Prerequisite: Computer Science 1.

This is the second level of the college-prep series. The student will explore advanced techniques leading to the College Board Advanced Placement Test in Computer Science.

### 003373 Computer Science Principles AP

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

Prerequisite: Algebra 1 with B or better and teacher recommendation.

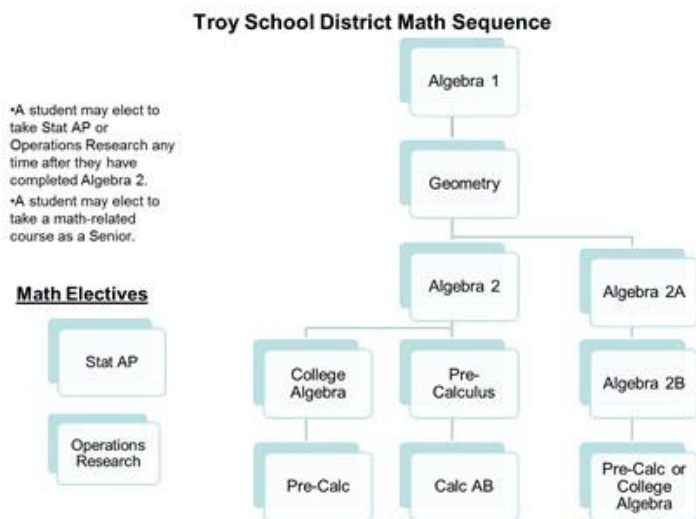
AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cyber security concerns, and computing impacts. 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 Cybersecurity

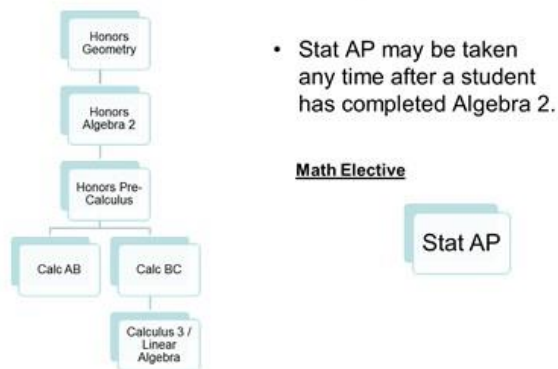
Grades 10-12. 1 semester. ½ credit.

Prerequisite: Completion of Computer Science 1 or Computer Science Principles AP.

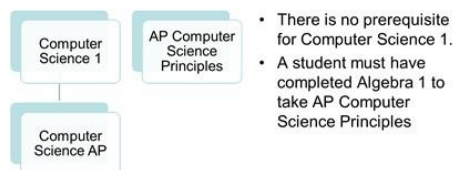
This course is to teach students the basics of protecting their computer systems. Students will learn about cyber ethics, digital citizenship, cryptography, software security, and network fundamentals.



### Honors Math Sequence



### Computer Science Sequence



# Media Department

---

## **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.

## **008502 Media Center Techniques**

*Grades 10-12. 1 semester. ½ credit. 3 Retakes.*

*Prerequisite: Approval of media specialist and successful completion of 8492.*

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.

# Multi - Departmental

---

## **008682/008692 Innovation Learning/Innovation Lab**

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

*Prerequisite: None for Innovation Learning;*

*Innovation Learning for Innovation Lab*

Innovation Learning/Lab is a year-long class unlike any other offered at Troy High School. It is an opportunity for real 21st 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.

## **002523 Seminar AP**

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

*Prerequisite: English Teacher Recommendation.*

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 1 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) OR**

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

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

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 7952 or 7962. 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.

## **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 (Troy High)**

*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.

## **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.

## **007972 Fall Team Sports & Fitness (Male)**

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

This course will give the student the opportunity to participate in sports such as football, soccer, speedball, volleyball, basketball, and physical fitness. Games and tournaments will take place during the semester.

## **007982 Fall Team Sports & Fitness (Female)**

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

This course will give the student the opportunity to participate in sports such as soccer, speedball, volleyball, basketball, aerobics, and physical fitness. Games and tournaments will take place during the semester.

## **007992 Spring Team Sports & Fitness (Male)**

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

This course will give the student the opportunity to participate in sports such as softball, volleyball, soccer, basketball, and physical fitness. Games and tournaments will take place during the semester.

## **008002 Spring Team Sports & Fitness (Female)**

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

This course will give the student the opportunity to participate in sports such as softball, volleyball, soccer, basketball, aerobics, and physical fitness. Games and tournaments will take place during the semester.

## **007972 Fall Team Sports & Fitness (Male)**

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

This course will give the student the opportunity to participate in sports such as football, soccer, speedball, volleyball, basketball, and physical fitness. Games and tournaments will take place during the semester.

## **007982 Fall Team Sports & Fitness (Female)**

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

This course will give the student the opportunity to participate in sports such as soccer, speedball, volleyball, basketball, aerobics, and physical fitness. Games and tournaments will take place during the semester.

## **007992 Spring Team Sports & Fitness (Male)**

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

This course will give the student the opportunity to participate in sports such as softball, volleyball, soccer, basketball, and physical fitness. Games and tournaments will take place during the semester.

## **008002 Spring Team Sports & Fitness (Female)**

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

This course will give the student the opportunity to participate in sports such as softball, volleyball, soccer, basketball, aerobics, and physical fitness. 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.

## **008042 Beginning Tumbling & Gymnastics/Fitness**

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

This course will give the student an opportunity to work on floor exercise, balance beam, even and uneven bars, vault and tumbling.

## **008022 Intermediate Tumbling & Gymnastics/Fitness**

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

Experience in all gymnastics events plus front and back walkovers. This course will include work in all gymnastics events at a more advanced level than beginning gymnastics. The student should have a strong interest in gymnastics.

### **007942 Learning to Swim**

*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. This course is not designed for the student's continuation of beginning swimming skills.

### **008052 Beginning & Intermediate Swimming and Lifetime Sports & Fitness**

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

The students will work at their own level to learn the basic strokes, floating, and diving. Students will also participate in lifetime activities and sports which may include walking, jogging, table tennis, and volleyball.

### **008062 Advanced Swimming and Lifetime Sports & Fitness**

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

This class is for students who know the basic swimming strokes and are good swimmers. Swimming endurance, diving, and water sports will be included. Students will also participate in lifetime activities and sports which may include walking, jogging, table tennis, and volleyball.

### **008072 Lifeguarding and Lifetime Sports & Fitness**

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

***Prerequisite: Must be 15 YOA and pay a certification fee of \$35.***

The student will be given the opportunity to learn and perform swimming rescues, CPR, 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.



#### **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 9th 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.*

## **004003 Introductory Biology A**

*Grade 9. 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.

## **004053 Biology: Anatomy and Physiology**

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

*Prerequisite: 1 credit of Introductory Biology A with a minimum grade of B.* This class will examine the structure and functions of the tissues and organ systems of the human body. Laboratory work is emphasized and includes dissection of the cat.

## **004063 Genetics, Bacteriology, Biotechnology, and Embryology**

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

*Prerequisite: 1 credit of Introductory Biology A with a minimum grade of B.*

This course will explore four areas of study. 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. **Bacteriology**--Our look into the world of bacteria will prepare us for the Biotechnology portion of the course which will require a familiarity with bacteria. 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 to inhibit 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. 3. **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, and PCR. 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 look into the role that genes play in early development. The development of related laboratory skills will be emphasized throughout the course. Online activities and research opportunities are provided and evolutionary theory is a common thread that ties the course together.

## **004073 Biology AP**

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

*Prerequisite: Two years of biology and Chemistry 1.*

*\*GBBE is strongly recommended for this course.*

This class is introductory, college-level biology. Students may choose to take the Biology AP Test in May to qualify for college credit. Students will study molecular and cellular biology including genetics and recombinant DNA techniques (genetic engineering). At the organismal level, the body systems of animals and plants will be studied, as well as behavioral and hormonal responses. There will also be studies in evolution and ecology with an emphasis on population, current issues, and the science of water quality assessment. The development of advanced laboratory skills is an important course component.

## **004013 Active Chemistry/Earth Science**

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

*Prerequisite: None.*

Active Chemistry provides an opportunity for students to look at the real-world based on the principles of chemistry. Students will be actively engaged in inquiry experiences as they explore the following units: matter and atoms, the chemistry of art, food chemistry and the chemistry of cleaning products. Students will learn about basic properties of matter, elements and their properties, the periodic table, atomic structure, compounds, acid/base chemistry, electroplating, chemical reactions, hydrated compounds, solutions, the states of matter, thermochemistry, kinetic theory, gas laws, and organic chemistry.

## **004093 Chemistry 1**

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

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

Students will study theories and concepts in general introductory chemistry related to atomic structure, chemical reactions, solutions, energy, stoichiometry, bonding, gas laws, and acid/ base chemistry. Many topics are developed through analytical problem solving and math applications. Laboratory experiments will be performed throughout the year which reinforce the concepts and demonstrate various laboratory techniques.

## **004243 Chemistry 2 AP**

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

*\*Course satisfies ½ 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.

## **004102 Organic Chemistry**

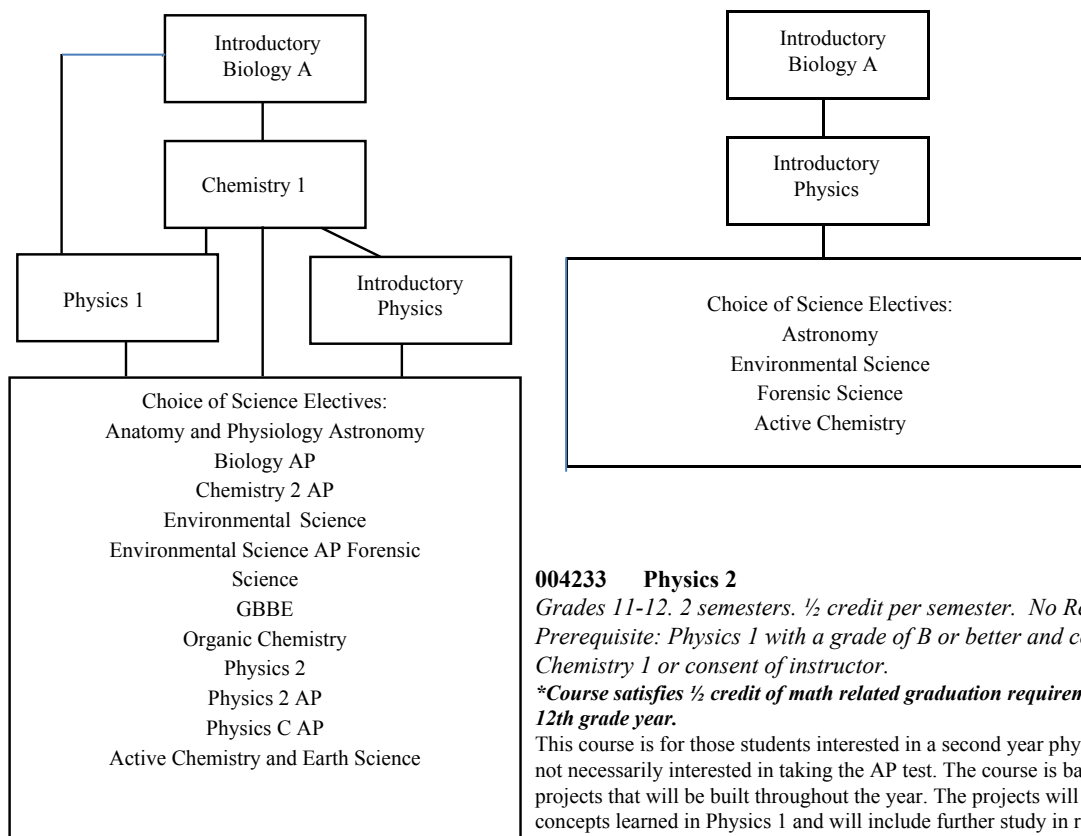
*Grades 11-12. 1 semester. ½ credit. No Retake.*

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

Students planning to pursue a career in the health sciences should consider this class. This course will emphasize the fundamentals of organic chemistry and biochemistry. Various organic and biochemistry laboratory techniques will be studied and used. These include the synthesis of nylon, aspirin, flavors and scents, the making of soap, and silver-plated test tubes. Students who have completed *Advanced Placement Chemistry* may take *Organic Chemistry*.



# Science Department



## 004213 Introductory Physics

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

Prerequisite: Passing grade for Introductory Biology A and Algebra 1.

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

This course introduces students to concepts related to motion, forces, energy, scientific inquiry, and social implications. Emphasis is placed on a qualitative approach and problem solving is reinforced by quantitative analysis and technology. Students become familiar with nature's basic rules and learn how to apply physical concepts to their personal experiences. A typical unit begins with open-ended inquiry. After the investigation, students are guided to build conceptual and mathematical models to explain the phenomena. Students then apply these models to solve problems. Collaborative work and discussion are emphasized throughout this process. As a result of this course, students will gain an understanding of physics content in alignment with the Michigan High School Content Standards and Expectations. This course fulfills the one-year course requirement for a "chemistry or physics" class as required by the State of Michigan graduation requirements.

## 004223 Physics 1

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

Prerequisite: B or better in Geometry and concurrently taking Algebra 2 or consent of instructor.

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

This is the study of the interaction of energy and matter and will be centered around extensive laboratory work, with some emphasis on graphical analysis. Concepts include mechanics, sound, light, and electricity.

## 004233 Physics 2

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

Prerequisite: Physics 1 with a grade of B or better and completion of Chemistry 1 or consent of instructor.

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

This course is for those students interested in a second year physics course but not necessarily interested in taking the AP test. The course is based on a series of projects that will be built throughout the year. The projects will build on the concepts learned in Physics 1 and will include further study in rotational dynamics, statics, fluids, thermodynamics, electricity, and modern physics.

## 004253 Physics 2 AP

Grades 11-12 or instructor approval. 2 semesters. ½ credit per semester.

Prerequisite: B or better in Algebra 2 and Physics 1 & completion of Chemistry.

*\*Course satisfies ½ 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. A knowledge of algebra and basic trigonometry is required for the course. The basic ideas of calculus are introduced in the theoretical development of some physical concepts. This course is designed to be the equivalent to a second- semester college course in algebra-based physics. Students who are interested in life science, business, law or not sure of their college major should consider taking this course as it offers a broader range of topics. Most engineering colleges require the Physics C course.

## 004263 Physics C AP

Grades 11-12 or instructor approval. 2 semesters. ½ credit per semester.

Prerequisite: Completion of Physics 1 with a B or better, completion of Chemistry 1 with a B or better, and must have completed with a B or better or be concurrently enrolled in Calculus.

*\*Course satisfies ½ 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. With less subject area, the sequence is more intensive and analytic than that in the B course. Strong emphasis is placed on solving a variety of challenging problems. Calculus is used freely in formulating principles and in solving problems. This course is the one required by most engineering colleges.



**004212 Astronomy**

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

*Prerequisite: 1 year of Algebra.*

***\*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 presentation of ideas as diverse as telescope construction and extragalactic investigations. Attendance at two outdoor evening observation sessions is required.

**004042 Forensic Science**

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

*Prerequisite: Introductory Biology A and one year of Chemistry 1, Physics 1 or Introductory Physics with a grade of B or better; plus the completion of Algebra 1 and Geometry with a grade of C or better.*

This college preparatory course introduces forensics, crime scene investigation, law enforcement, and the scientific method. The semester-long class examines many topics: introduction to forensic science, crime scene procedures and the law, types of evidence, bone identification, entomology, pathology, fingerprinting, DNA, blood typing and blood spatter analysis, hair and fiber analysis, and handwriting analysis. Forensic science is designed to be hands-on with many laboratory assignments and investigatory studies.

**004222 Environmental Science**

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

*Prerequisite: 2 semesters of Biology and 2 semesters of Physical Science (Chemistry or Introductory Physics with a C or better).*

Environmental Science is a field study course which will require students to perform water quality tests; develop an understanding of ecological relationships between organisms and their environment; recognize land formation and development using Michigan as a case study; analyze man's impact on the local and global environment; and identify local flora and fauna. Students have the opportunity to take the AP test in the spring.

**004273 Environmental Science AP**

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

*Prerequisite: Algebra 1, Biology with a B or better, and Chemistry with a B or better.*

This course will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. After completion, students may take the Environmental Science Advanced Placement test in May.



# 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.*

*Prerequisite: None.*

The World History 1 course helps students understand the development of the modern world. It begins with pre-history and ends with the Renaissance. 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 as members of a global community who appreciate diversity in the world and are prepared to make decisions about world affairs.

## **002503 Human Geography AP**

*Grade 9. 2 semesters. ½ credit per semester. No Retake.*

*Prerequisite: Concurrently enrolled in 9th grade Honors English.*

*\*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. Prerequisite: None.*

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 on persisting public issues facing Americans. Issues are analyzed from economic, social, and political perspectives.

## **002013 American History / Geography AP**

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

*Prerequisite: A recommendation from both a social studies teacher and an honors English teacher.*

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.*

*Prerequisite: none.*

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.

## **002073 Economics AP**

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

*Prerequisite: Recommendation from a social studies teacher and a B or better in Algebra 2.*

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. Prerequisite: None.*

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**

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

*Prerequisite: A recommendation from both a social studies teacher and an English teacher.*

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. Prerequisite: None.*

The World History 2 course helps students understand the development of the modern world. It begins with Enlightenment 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 as members of a global community who appreciate diversity in the world and are prepared to make decisions about world affairs.

## **002233 World History / Geography AP**

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

*Prerequisite: A recommendation from both a social studies teacher and an English teacher.*

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. Prerequisite: None.*

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.

**002163 Psychology AP**

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

*Prerequisite: None.*

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. Prerequisite: None.*

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 (Athens)**

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

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, culture formation, conformity and obedience, attitude formation and prejudice.

**002082 Philosophy (Athens)**

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

*Prerequisite: Government/Civics and American History.*

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.*

*Prerequisite: Recommendation from both a social studies teacher and an English teacher.*

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

This course focuses on an introduction to political issues, comparative governments, and world politics through research and class discussions. Current issues and events will be discussed throughout the course. Topics include terrorism, military intervention, human rights, etc. Students will have the opportunity to use the Internet and computer applications such as PowerPoint.

**002102 Human Rights and The Law**

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

*Prerequisite: None.*

Human Rights and The Law makes law and the legal system personally useful to students in their daily lives. While Criminal Law focuses on criminal law, Human Rights and The Law gives students the opportunity to learn their constitutional rights. Emphasis will be placed on civil rights and civil liberties, current issues, as well as student rights and responsibilities. Teaching strategies include case studies, videotapes, readings, lectures, and class discussions.

**002032 History of American Criminal Law**

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

*Prerequisite: None.*

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, videotapes, and mock trials.

**002122 Introduction to Leadership**

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

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 such as the government, the military, nonprofit organizations and the corporate world. 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.

**002125 Leadership Lab**

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

This course enhances each student's leadership style by continuing individual and group analysis 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.

# Special Education Department

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

## **009909 Achievement Skills 1A – 9<sup>th</sup> grade**

## **009909 Achievement Skills 1B – 9<sup>th</sup> grade**

## **009910 Achievement Skills 2A – 10<sup>th</sup> grade**

## **009910 Achievement Skills 2B – 10<sup>th</sup> grade**

## **009911 Achievement Skills 3A – 11<sup>th</sup> & 12<sup>th</sup> grade**

## **009911 Achievement Skills 3B – 11<sup>th</sup> & 12<sup>th</sup> grade**

*Grade 9-12. 1 semester. ½ credit. 1 Retake.*

*Prerequisite: IEP Recommendation.*

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 regards 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.

## **009243 Language! Live (Level 1A)**

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

*Prerequisite: IEP Recommendation.*

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. This course meets the regular English requirements.

## **009253 Language! Live (Level 1B)**

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

*Prerequisite: IEP Recommendation.*

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. This course meets the regular English requirements.

## **009273 Language 2A**

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

*Prerequisite: IEP Recommendation.*

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 paragraph development. This course meets the regular English requirements.

## **009283 Language 2B**

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

*Prerequisite: IEP Recommendation.*

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 paragraph development. This course meets the regular English requirements.

## **009263 Language 2C**

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

*Prerequisite: IEP Recommendation.*

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, vocabulary, writing, listening, and speaking. Content includes comprehension expansion, gerunds, participles, properties of verbs, subject-verb agreement, prepositions, higher order thinking, pre-writing and paragraph development. This course meets the regular English requirements.

## **003003 Integrated Math 1**

*Grade 9-12. 2 semesters. ½ credit per semester. Prerequisite: IEP Recommendation.*

This course continues to develop, reinforce, and maintain previously learned concepts. Emphasis is placed on applications in the areas of numerical computation, graph interpretation, probability, statistics, measurement, and geometry. Introductory algebraic concepts will be presented through the use of manipulatives. Problem solving and calculator use will be integrated throughout all instruction.

## **003103 Integrated Math 2**

*Grade 9-12. 2 semesters. ½ credit per semester. Prerequisite: IEP Recommendation.*

This course formalizes and extends concepts previously studied in Integrated Math 1. The major emphasis will be on algebraic ideas using symbolic notation. Topics in geometry, probability, and statistics will be integrated and related to algebra. Students will use mathematical skills and problem-solving strategies to solve problems from within and outside mathematics.

## **003272 Math Lab Semester 1 (Troy High)**

*Grade 9-12. 1 semester. ½ credit. Retake. Prerequisite: IEP Recommendation.*

## **003282 Math Lab Semester 2 (Troy High)**

*Grade 9-12. 1 semester. ½ credit. Retake. Prerequisite: IEP Recommendation.*

This is a class for students who have been certified by an IEPC. This class is designed to meet the individual needs of students in regards to their IEP goals and objectives. Students will spend part of class learning and reinforcing math concepts. It will also include re-teaching and clarification of specific math skills. Students will spend the rest of class applying these skills.

## **009303 English Language Arts 1**

*Grade 9-12. 2 semesters. ½ credit per semester. Retake*

*Prerequisite: IEP Recommendation. Advanced Level*

Is a class 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.

## **009573 English Language Arts 2**

*Grade 9-12. 2 semesters. ½ credit per semester. Retake*

*Prerequisite: IEP Recommendation. Entry Level*

Is a class 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.

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

*Grade 9-12. 2 semesters. ½ credit per semester. Retake*

*Prerequisite: IEP Recommendation.*

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.

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

*Grade 9-12. 2 semesters. ½ credit per semester. Retake*

*Prerequisite: IEP Recommendation.*

This course covers functional math skills needed for independent daily living.



# World Language Department

---

## **000603 French 1**

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

In *French 1* the student will learn to function in an appropriate fashion in four linguistic skill areas: listening, speaking, reading, and writing. The student will be introduced to the French culture while studying the people and customs of French-speaking countries.

## **000613 French 2**

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

In *French 2* the student will be reacquainted with skills learned in *French 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 French-speaking countries and their cultures.

## **000623 French 3**

*Grades 10-12. 2 Semesters. ½ credit per semester.*

The third-year French student will improve comprehension, reading, and communication skills. Study will include review, reinforcement, and refinement of grammar and vocabulary. Cultural readings and selected literary works will supplement the textbook.

## **000633 French 4**

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

In this course the student will complete the study of the grammatical sequence. This study will include any necessary review. The student will become more knowledgeable about Francophone culture and life through a brief survey of history and literature. The student will be exposed to the current French culture by means of newspapers, magazines, films, videos, radio broadcasts, and plays. Throughout all activities, emphasis will be given to communication, both oral and written, in the target language. This class is intended to prepare seniors for college placement testing and underclassmen for French AP.

## **000643 French AP**

*Grade 12 only. 2 semesters. ½ credit per semester.*

The AP course will be a concentrated, in-depth study in French. This course is designed for highly motivated students who have already demonstrated advanced ability in previous classes and who are willing to undertake a commitment to prepare themselves for success in the AP French Language and Culture Examination.

## **000693 Spanish 1**

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

In *Spanish 1* the student will learn to function in an appropriate fashion in four linguistic skill areas: listening, speaking, reading, and writing. The student will be introduced to the Spanish culture while studying the people and customs of Spanish-speaking countries.

## **000703 Spanish 2**

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

In *Spanish 2* the student will be reacquainted with skills learned in *Spanish 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 Spanish-speaking countries and their cultures.

## **000713 Spanish 3**

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

The third-year Spanish student will improve comprehension, reading, and communication skills. Study will include review, reinforcement, and refinement of grammar and vocabulary. Cultural readings and selected literary works will supplement the textbook.

## **000723 Spanish 4**

*Grade 11-12. 2 Semesters. ½ credit per semester.*

In this course the student will complete the study of the grammatical sequence. This study will include any necessary review. The student will become more knowledgeable about Spanish culture and life through a brief survey of history and literature. The student will be exposed to the current Spanish culture by means of newspapers, magazines, films, videos, radio broadcasts, and plays. Throughout all activities, emphasis will be given to communication, both oral and written, in the target language. This class is intended to prepare seniors for college placement testing and underclassmen for Spanish AP.

## **000733 Spanish AP**

*Grade 12 only. 2 semesters. ½ credit per semester.*

The AP course will be a concentrated, in-depth study in Spanish. This course is designed for highly motivated students who have already demonstrated advanced ability in previous classes and who are willing to undertake a commitment to prepare themselves for success in the AP Spanish Language and Culture Examination.



**000823 Japanese 1**

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

In Japanese 1 the student will learn to function in an appropriate fashion in four linguistic skill areas: listening, speaking, reading, and writing. The student will be introduced to the Japanese culture while studying the people and customs of Japan.

**000833 Japanese 2**

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

In Japanese 2 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.

**000843 Japanese 3**

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

In *Japanese 3* the student will be reacquainted with skills learned in *Japanese 1 and 2* through a systematic reentry of grammar, vocabulary, and the Chinese character system (Kanji). The student will 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.

**000863 Japanese 4**

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

In Japanese 4 the student will become reacquainted with skills acquired in previous years through a systematic reentry of grammar, vocabulary, and the Chinese character system (Kanji). The student will 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.

**008863 Japanese AP**

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

The AP course will be a concentrated, in-depth study in Japanese language and culture. This course is designed for highly motivated students who have already demonstrated advanced ability in previous classes and who are willing to undertake a commitment to prepare themselves for success in the AP Japanese Language and Culture Examination.

**000853 Chinese 1**

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

The student will learn to function in an appropriate fashion in four linguistic skill areas: listening, speaking, reading, and writing. The student will be introduced to the Chinese culture while studying the people and customs of China.

**000873 Chinese 2**

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

In Chinese 2 the student will continue to learn to function in an appropriate fashion in four linguistic skill areas: listening, speaking, reading, and writing. The student will be reintroduced to the Chinese culture while studying the people and customs of China.

**000883 Chinese 3**

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

In *Chinese 3* the student will improve comprehension, reading, writing, and communication skills. Cultural readings and selected literary works will supplement the textbook. The student will be more knowledgeable in his/her appreciation of the Chinese characters, poetry, culture, and history. SAT II Chinese test material will be introduced.

**000893 Chinese 4**

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

In *Chinese 4* the student will attain proficiency in four linguistic skill areas: listening, speaking, reading, and writing. The student will be exposed to the current Chinese culture and events by means of newspapers, magazines, books, videos, plays, and the Internet. Throughout all activities, emphasis will be given to communication, both oral and written, in the target language.

**000813 Chinese AP**

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

The AP course will be a concentrated, in-depth study in Chinese. This course is designed for highly motivated students who have already demonstrated advanced ability in previous classes and who are willing to undertake a commitment to prepare themselves for success in the AP Chinese Language and Culture Examination.

**000653 German 1**

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

In German 1 the student will learn to function in an appropriate fashion in four linguistic skill areas: listening, speaking, reading, and writing. The student will be introduced to the German culture while studying the people and customs of German-speaking countries.

**000663 German 2**

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

In German 2 the student will be reacquainted with skills learned in German 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 German-speaking countries and their cultures.

**000673 German 3**

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

The third-year German student will improve comprehension, reading, and communication skills. Study will include review, reinforcement, and refinement of grammar and vocabulary. Cultural readings and selected literary works will supplement the textbook.

**000683 German 4**

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

Students will complete the study of the grammatical sequence. This study will include any necessary review. The student will become more knowledgeable about German culture and life through a brief survey of history and literature. The student will be exposed to the current German culture by means of newspapers, magazines, films, videos, radio broadcasts, and plays. Throughout all activities, emphasis will be given to communication, both oral and written, in the target language.



# Oakland Schools Technical Campus - Southeast

*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 students. If regular students carry six (6) credits, the OSTC students must carry three (3) credits at their home high school in addition to the three (3) credits at OSTC.

## Sessions

There are two sessions at OSTC-SE:

Morning Session	Classes Begin	7:50 AM
	Classes Dismissed	10:20 AM
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

Obtain an application from your counselor and return it as soon as possible to the Guidance Office. In order to receive equal consideration for placement into OSTC, you must submit your request for consideration form to the Guidance Office by December 15. Since all opening at OSTC are controlled by quotas to each sending high school, only those students who have the highest recommendations will be placed initially. Once the initial selections are made and reported, there may be opportunities to place additional students in some programs later in the year or in the fall.

## 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 Schools 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).



# NCAA ELIGIBILITY CENTER QUICK REFERENCE GUIDE



Eligibility Center

## NCAA Division I Initial-Eligibility Requirements

### Core Courses: (16)

- **Initial full-time collegiate enrollment before August 1, 2016:**
  - **Sixteen (16) core courses** are required (see chart below for subject-area requirements).
- **Initial full-time collegiate enrollment on or after August 1, 2016:**
  - **Sixteen (16) core courses** are required (see chart below for subject-area requirements).
    - Ten (10) core courses completed before the seventh semester; seven (7) of the 10 must be in English, math or natural/physical science.
      - These courses/grades are "locked in" at start of the seventh semester (cannot be repeated for grade-point average [GPA] improvement to meet initial-eligibility requirements for competition).
  - *Students who do not meet core-course progression requirements may still be eligible to receive athletics aid and practice in the initial year of enrollment by meeting academic redshirt requirements (see below).*

### Test Scores: (ACT/SAT)

- Students must present a corresponding test score and core-course GPA on the sliding scale (see Page No. 2).
  - **SAT:** critical reading and math sections.
    - Best subscore from each section is used to determine the SAT combined score for initial eligibility.
  - **ACT:** English, math, reading and science sections.
    - Best subscore from each section is used to determine the ACT sum score for initial eligibility.
- All ACT and SAT attempts before initial full-time collegiate enrollment may be used for initial eligibility.
- **Enter 9999 during ACT or SAT registration to ensure the testing agency reports your score directly to the NCAA Eligibility Center. Test scores on transcripts will not be used.**

### Core Grade-Point Average:

- Only core courses that appear on the high school's List of NCAA Courses on the NCAA Eligibility Center's website ([www.eligibilitycenter.org](http://www.eligibilitycenter.org)) will be used to calculate your core-course GPA. Use this list as a guide.
- **Initial full-time collegiate enrollment before August 1, 2016:**
  - Students must present a corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.000) on Sliding Scale A (see Page No. 2).
  - Core-course GPA is calculated using the **best 16 core courses** that meet subject-area requirements.
- **Initial full-time collegiate enrollment on or after August 1, 2016:**
  - Students must present a corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.300) on Sliding Scale B (see Page No. 2).
  - Core-course GPA is calculated using the **best 16 core courses** that meet both progression (10 before seventh semester; seven in English, math or science; "locked in") and subject-area requirements.

#### DIVISION I

##### Core-Course Requirement (16)

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

#### DIVISION I – 2016

##### Qualifier Requirements

*\*Athletics aid, practice, and competition*

- 16 core courses
  - Ten (10) core courses completed before the start of seventh semester. Seven (7) of the 10 must be in English, math or natural/physical science.
    - "Locked in" for core-course GPA calculation.
- Corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.300) on Sliding Scale B (see Page No. 2).
- Graduate from high school.

#### DIVISION I – 2016

##### Academic Redshirt Requirements

*\*Athletics aid and practice (no competition)*

- 16 core courses
  - No grades/credits "locked in" (repeated courses after the seventh semester begins may be used for initial eligibility).
- Corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.000) on Sliding Scale B (see Page No. 2).
- Graduate from high school.

# NCAA ELIGIBILITY CENTER QUICK REFERENCE GUIDE



Eligibility Center

## Division II Initial-Eligibility Requirements

### Core Courses

- **Division II currently requires 16 core courses.** See the chart below.
- **Beginning August 1, 2018**, to become a full or partial qualifier for Division II, all college-bound student-athletes must complete the 16 core-course requirement.

### Test Scores

- **Division II** currently requires a minimum SAT score of 820 or an ACT sum score of 68. **Beginning August 1, 2018**, Division II will use a sliding scale to match test scores and core-course grade-point averages (GPA). The sliding scale for those requirements is shown on Page No. 2 of this sheet.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. **The writing section of the SAT is not used.**
- The ACT score used for NCAA purposes is a **sum** of the following four sections: English, mathematics, reading and science.
- **When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.**

### Grade-Point Average

- Be sure to look at your high school's List of NCAA Courses on the NCAA Eligibility Center's website ([www.eligibilitycenter.org](http://www.eligibilitycenter.org)). Only courses that appear on your school's approved List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.
- The current **Division II** core GPA requirement is a minimum of 2.000. **Division II** core GPA required to be eligible for **competition on or after August 1, 2018**, is 2.200 (corresponding test-score requirements are listed on the Sliding Scale on Page No. 2 of this sheet).
- The minimum **Division II** core GPA required to receive **athletics aid and practice as a partial qualifier on or after August 1, 2018**, is 2.000 (corresponding test-score requirements are listed on the Sliding Scale on Page No. 2 of this sheet).
- Remember, the NCAA core GPA is calculated using NCAA core courses only.

#### **DIVISION II 16 Core Courses**

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

## **ANTIDISCRIMINATION 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 work days of the incident. The procedure will then be as follows:

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

### **Step 2:**

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

### **Step 3:**

7. Within 3 work days of receipt of answer - grievant (if not satisfied) must appeal to the Superintendent.
8. Within 10 work days of receipt of appeal - Superintendent meets with grievant.
9. Within 5 work days 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.



Department of Teaching & Learning

4420 Livernois  
Troy, Michigan 48098  
248.823.5221

[www.troy.k12.mi.us](http://www.troy.k12.mi.us)