



# **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*

*Mr. Mark Dziatczak*  
*Deputy Superintendent*  
*Teaching & Learning*

*Revised January 2016*

# Troy School District



## Athens High School

Dr. Lara Dixon, Principal  
4333 John R  
Troy, Michigan 48085  
248.823.2900 Main Office  
248.823.2913 Fax  
248.823.2915 Guidance  
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 Guidance  
248.823.2701 Attendance

# Troy School District Graduation Requirements

## Class of 2016 and beyond (6.2015)

DEPARTMENT	REQUIRED CREDITS	REQUIRED COURSES AND CREDITS
ENGLISH	4.0	<ul style="list-style-type: none"> <li>• English 9 Literature and Composition 1 and 2 or Basic - 1.0 credit</li> <li>• English 10 Literature and Composition 1 and 2 or Basic - 1.0 credit</li> <li>• English 11 Literature and Composition and English Elective or 11 AP - 1.0 credit</li> <li>• English 12 Literature and Composition 1 and 2 or 12 General or 12 AP - 1.0 credit</li> </ul>
SCIENCE	3.0	<ul style="list-style-type: none"> <li>• Biology - 1.0 credit</li> <li>• Chemistry or Physics or Introductory Physics - 1.0 credit</li> <li>• Science Elective - 1.0 credit</li> </ul>
MATHEMATICS	4.0	<ul style="list-style-type: none"> <li>• Algebra* - 1.0 credit</li> <li>• Geometry* - 1.0 credit</li> <li>• Algebra 2* or Fundamentals of Algebra 2 A &amp; B - 1.0 credit (may be met through CTE program completion (OTech))</li> <li>• Math Elective* - 1.0 credit</li> </ul> <p>*High school math credits may be earned in 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 final year of high school. In the final year, a math-related course counts toward 4.0 required math credit.</p>
SOCIAL STUDIES	3.0	<ul style="list-style-type: none"> <li>• World History &amp; Geography 1 &amp; 2 - 1.0 credit</li> <li>• American History &amp; Geography 1 and 2 - 1.0 credit</li> <li>• Economics - 0.5 credit</li> <li>• Government / Civics - 0.5 credit</li> </ul>
PHYSICAL EDUCATION	1.0	<ul style="list-style-type: none"> <li>• Intro to P.E. - 0.5 credit</li> <li>• P.E. Elective - 0.5 credit</li> </ul>
HEALTH	0.5	<ul style="list-style-type: none"> <li>• Health - 0.5 credit</li> </ul>
WORLD LANGUAGE, FINE & APPLIED ARTS, CTE	3.0	<ul style="list-style-type: none"> <li>• 2.0 credits World Language (non-sequential is OK) or 1.0 World Language along with 1.0 CTE or +1.0 FAA</li> <li>• 1.0 credit that must be earned in visual/performing or applied arts</li> </ul> <p>*Applied Arts may include Industrial Technology, Business &amp; Life Skills classes</p>
ONLINE LEARNING EXPERIENCE	0.0	A 20-hour online learning experience is required for graduation. This is a non-credit requirement embedded in Troy classroom experiences throughout middle and high school.
STATE ASSESSMENTS	0.0	Participation in State of Michigan required assessments administered during high school.
MIDDLE SCHOOL STUDENTS - HIGH SCHOOL CLASSES	N/A	Credit bearing high school courses taken prior to high school matriculation will appear on a student's 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 (6.2015)**

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 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:

## **0833 Japanese 2 (Troy High)**

*Grades 9-12. 2 Semesters. ½ credit per semester. No Retake. Prerequisite: C or better in Level 1.*

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

1. The first item in every description is the course number followed by the course title. Following the title information, there may be a specific school identified which indicates where the course is offered. If a specific school is not identified, the course is offered at both high schools.

2. Under the course title is italicized information including:
  - 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;
  - the prerequisite requirements [course(s) or conditions which must be completed or met before you may enroll in this course].
3. Below the italicized information is the actual course description. Information provided will describe the content, operation and/or objectives of the course. Students may check with their counselor, other students, and the 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

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

### Accounting and Finance

#### **5002 Accounting 1**

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

*Prerequisite: None.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

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.

#### **5022 Accounting 2**

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

*Prerequisite: Accounting 1.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

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

#### **5032 Accounting 3**

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

*Prerequisite: Accounting 2.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

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.

#### **5122 Financial Management**

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

*Prerequisite: None.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

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.



### **5052 Business & Personal Law 1**

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

*Prerequisite: None.*

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.

### **5062 Business & Personal Law 2**

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

*Prerequisite: None.*

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.

### **5292 Business & Personal Law 3**

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

*Prerequisite: None.*

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.

### **5152 Financial Math and Analysis 1**

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

*Prerequisite: None.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

This course requires students to solve mathematical problems in personal and workplace situations. There will be a basic math skills review at the beginning of the semester. The business and personal math topics that will be studied include: payroll records, calculating gross income, employee taxes and insurance deductions to calculated net income, record keeping for budgets, checking and savings accounts, loans, cash purchases, charge accounts and credit cards, purchasing and leasing vehicles, and housing costs.

### **5162 Financial Math and Analysis 2**

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

*Prerequisite: Financial Math and Analysis 1.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

This semester course requires students to solve mathematical problems in personal and workplace situations. This course will be a continuation of Financial Math and Analysis 1. The business and personal math topics that will be studied include health and life insurance; investments; personnel with employee benefits, worker compensation, and unemployment insurance; production and manufacturing with quality control; purchasing with trade discounts and chain discounts; sales with markup and net profit; marketing, warehousing and distribution; services such as building rentals, equipment rentals, and professional services; accounting and accounting records; and corporate planning.

## **Business Management**

### **5232 Business Ownership (Entrepreneurship)**

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

*Prerequisite: None.*

In this introductory course, students learn the basics of planning and launching their own business. From profit to non-profit businesses, 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 entrepreneurs who have turned their ideas into reality.

### **5242 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 PowerPoint 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 all be discussed in this semester long course.

### **5024 Junior Business Internship (Co-op)**

*Grades 11. 2 semesters. 2-Hour class. 1 credit per semester.*

*Retake.*

### **8844 Senior Business Internship (Co-op)**

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

*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 Career/Technical Education Department, the Guidance Department, or with the Co-op coordinator. However, final admission to the program is dependent on the Co-op coordinator's approval. Requires approval by Guidance Counselor, Co-op coordinator and administrator.

### **5272 Web Page Creation 1**

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

*Prerequisite: Average or higher GPA recommended.*

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.

### **5282 Web Page Creation 2**

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

*Prerequisite: Web Page Creation 1.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

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

### 5222 Marketing

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

Prerequisite: None.

◆ Course satisfies ½ credit of the math-related graduation requirement.

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.

### 5252 Marketing 2 (Sales & Social Media)

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

Prerequisite: Marketing.

◆ Course satisfies ½ credit of the math-related graduation requirement.

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 Co-op* course description for possible co-op credit)

### 5223 Honors Marketing

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

Prerequisite: Marketing.

◆ Course satisfies 1 credit of the math-related graduation requirement.

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.

### 5172 Fashion Merchandising

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

Prerequisite: None.

◆ Course satisfies ½ credit of the math-related graduation requirement.

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 Co-op* course description for possible co-op credit.

### 5182 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 multibillion 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.

### 5103 Marketing Lab (School Store)

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

Prerequisite: Marketing and consent of instructor.

◆ Course satisfies 1 credit of the math-related graduation requirement.

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.

### 5214 Marketing Internship (Co-op)

Grades 11-12. 2 semesters. 2-hour class. 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). A student must make application for this program through the Career/Technical Education Department or the Guidance Department. However, final admission to the program is dependent on the co-op coordinator's approval.

## Information Technology Computer Networking Program

### 5303 Computer Networks and Repair (Athens)

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

Prerequisite: Computer skill or experience.

◆ Course satisfies 1 credit of the math-related graduation requirement.

Students will study computer hardware, software, building and troubleshooting computers, local area networks (LANs), subnets and IP addressing, cat-5 cabling, physical and logical topologies, router and switch configuration, and network security.

# English Department

---

## **0012 9 English Literature and 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.

## **0022 9 English Literature and 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.

## **0003 9 Basic English Literature and Composition**

*2 semesters. ½ credit per semester. Prerequisite: 8th grade teacher recommendation.*

This course is designed to aid students in becoming more successful in their reading, writing, listening, and speaking skills. Focus will be on using language to become successful communicators. Students will be expected to work independently and in groups in a variety of areas, ranging from vocabulary and grammar to reading and writing. Summer Reading is required.

## **0002 9 Honors English Literature and 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.

## **0032 9 Honors English Literature and 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.

## **0062 10 English Literature and Composition 1**

*1 semester. ½ credit. No Retake. Prerequisite: 9<sup>th</sup> Grade English Literature and Composition.*

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.

## **0042 10 English Literature and Composition 2**

*1 semester. ½ credit. No Retake. Prerequisite: 9<sup>th</sup> Grade English Literature and Composition*

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.

## **0033 10 Basic English Literature and Composition**

*2 semesters. ½ credit per semester. Prerequisite: 9<sup>th</sup> grade English and teacher recommendation.*

This class is designed to aid students in becoming more successful in their reading, writing, listening, and speaking skills. It is intended to help students write more effectively, developing skills necessary for the three-part essay. Special emphasis will also be placed on increasing reading comprehension, vocabulary, and grammatical skills. Summer Reading is required.

## **0052 10 Honors English Literature and Composition 1**

*1 semester. ½ credit. No Retake. Prerequisite: 9 Honors English 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.

## **0152 10 Honors English Literature and Composition 2**

*1 semester. ½ credit. No Retake. Prerequisite: 9 Honors English 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.

## **0082 11 English Literature and Composition**

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

This course is a prerequisite for 12 English Literature and Composition. 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 Literature and Composition. Summer Reading is required.

## **0063 11 Basic English Literature and Composition**

*2 semesters. ½ credit per semester. No Retake. Prerequisite: 9<sup>th</sup> and 10<sup>th</sup> grade required English courses.*

This class is designed to help students become more successful readers and writers, while increasing knowledge of vocabulary and grammatical skills. With a focus on American writers, the study of literature in this class requires critical and creative thinking skills; writing instruction includes a special emphasis on the three-part essay. Summer Reading is required.

**0092 11 English - AP 1**

*1 semester. ½ credit. No Retake. Prerequisite: B or better in 10 Honors English 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 11th grade English requirement. Summer Reading is required.

**0112 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.

**0113 12 English Literature and Composition**

*2 semesters. ½ credit per semester. No Retake. Prerequisite: 11 English Literature and 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.

**0102 12 General English**

*1 semester. ½ credit. No Retake. Prerequisite: 9th, 10th, and 11th grade required English courses.*

**0202 12 General English (Semester 2)**

*1 semester. ½ credit. No Retake. Prerequisite: 9th, 10th, and 11th grade required English courses.*

This course is offered for students who may be planning on attending a four-year college but earned lower than a C in 11LC, or 11 Basic English students to fulfill the English graduation requirement. 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.

**0453 12 English - AP**

*2 semesters. ½ credit per semester. No Retake. Prerequisite: 11 Honors English, 11 English-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.

**0182 Creative Writing 1**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: 9th grade English 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. The creation of a writing portfolio is the final project.

**0192 Creative Writing 2**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: 9th grade English requirements.*

This class is designed to inspire serious creative writers to further 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.

**0232 Classical Mythology and Drama**

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

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.

**0122 American Classics, Novels, and Short Stories**

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

Reading and learning more about short stories, novels, and biographies of a number of American authors are the main thrust of this course. Students will study the elements of the short story and novel and analyze examples of the genres in depth. Critical and analytical writing assignments will be given covering the literature being studied.

**0262 Modern Humanities**

*Grades 11-12. 1 semester. ½ credit. No Retake. Prerequisite: B average in English.*

Students develop an understanding of art, literature, music, and philosophy, and how these areas relate to everyday life and mankind in general. Themes will be assigned of an analytical and critical nature using course literature as the focus of the themes.

**0212 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.

### **0312 Literature of Suspense**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: 9th Grade English 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.

### **0382 Science Fiction**

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

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.

### **0132 Voices in Literature**

*Grades 11-12. 1 semester. ½ credit. No Retake. Prerequisite: None. 10th grade students accepted with 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 class time. Critical reading skills will be developed, as will writing styles and discussion skills.

### **0322 Sports Literature**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: 9th Grade English Literature and Composition.*

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.

### **0352 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.

### **0392 Speech 1**

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

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.

### **0142 Speech 2**

*Grades 9-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: B or better in Speech 1 or teacher recommendation.*

This course is designed for potentially advanced public speakers. Students will have an opportunity to explore a variety of speaking styles including PowerPoint 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.

### **0492 Debate 1**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: B or better in English or teacher recommendation.*

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.

### **0502 Debate 2**

*Grades 10-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: Debate 1, teacher recommendation, or B or better in English.*

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.

### **0292 Media (Athens)**

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

Students will study the histories of radio, television, magazines and newspapers. They will learn the influence of media and how it operates in America. Writing and speaking skill development will be stressed as it relates to the exciting world of communication.

### **0272 Writing for Publication: Journalism (Athens)**

*Grades 9-12. 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.

### **0172 Academic Collegiate Transition (ACT) (Athens)**

*Grades 10 (Spring Semester) 11 (Fall Semester). 1 semester. ½ credit. No Retake. Prerequisite: None.*

This course is designed for critical thinking skills within the core areas of math, reading, English, writing and science. The course prepares students for college entrance exams and admissions by deepening student's familiarity with standardized tests and increasing student's fundamental, common-core skill proficiency: analyzing, inferring, problem solving, and communicating. During the semester, students will rotate between four teachers. The class is embedded in both mathematics and English curriculum, each individual student will meet with their counselor to decide whether the class will be a math or English elective.



**0333 Writing for Publication: Newspaper**

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

*Prerequisite: B average in Writing for Publication: Journalism (Athens only) and/or instructor approval.*

This course is designed to involve the student in all aspects of producing a newspaper/newsmagazine. 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.

**0343 Writing for Publication: Yearbook**

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

*Prerequisite: B average in English and consent of instructor.*

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.

**0342 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.

**0362 Advanced Writing for Broadcasting**

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

*Prerequisite: Writing for Broadcasting with an average grade of B or better and permission of instructor.*

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.



# ELD Department

## English Language Development

Initial placement in the ELD program is determined by the Home Language Survey portion of the Troy School District registration form and the WIDA Access assessment of English language proficiency. 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.

### **0043 10 Basic English Literature & Composition ESL**

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

*Prerequisite: Completion of Advanced ESL and/or Placement by ELD specialist.*

*Graded conventionally.*

This class is designed to aid students in becoming more successful in their reading, writing, listening, and speaking skills. It is intended to help students write more effectively, developing skills necessary for the extended essay. Special emphasis will also be placed on increasing reading comprehension, vocabulary, and grammatical skills. This course is an ideal bridge between the ELD program and general education English course offerings.

### **ENGLISH LANGUAGE DEVELOPMENT**

#### **0472 Beginner ESL 1**

#### **0482 Beginner ESL 2**

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

*Prerequisite: Placement by ELD specialist.*

*Graded conventionally.*

For English Language Learners (ELLs) 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 ELL Tutorial.*

### **ELD LANGUAGE ARTS**

#### **0562 Intermediate ESL 1**

#### **0572 Intermediate ESL 2**

*Grades 9-12. 2 semesters. ½ English Language Arts credit per semester. Graded conventionally.*

*Prerequisite: Placement by ELD specialist.*

Intermediate ESL is the language arts class for intermediate English Language Learners. Vocabulary building and refinement of grammar are stressed while students explore various genres of literature. ELLs 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 ELL Tutorial.*

#### **1562 Advanced ESL 1**

#### **1572 Advanced ESL 2**

*Grades 9-12. 2 semesters. ½ English Language Arts credit per semester. Graded conventionally.*

*Prerequisite: Placement by ELD specialist.*

Advance ESL is the language arts class for advanced English Language Learners. Vocabulary building and refinement of grammar are stressed while students explore various genres of literature. ELLs 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 ELL Tutorial.*

### **ELD CONTENT AND LANGUAGE SUPPORT**

#### **8472 ELL Tutorial 1**

#### **8482 ELL Tutorial 2**

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

*Retakes allowed.*

*Prerequisite: Placement by ELD specialist.*

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

This class helps ELLs (English Language 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 on a rotating basis. Please check with counselor for availability. ½ credit per semester. Placement by ELD specialist and prior year's content teacher.

#### **4002 LS Biology 1**

#### **4012 LS Biology 2**

#### **4313 LS Introductory Physics**

#### **2272 LS World History/Geography 1**

#### **2282 LS World History/Geography 2**

#### **2352 LS American History/Geography 1**

#### **2362 LS American History/Geography 2**

#### **2092 LS Government / Civics**

#### **2422 LS Economics**

#### **8862 LS Health**

### **ESL LANGUAGE DEVELOPMENT, LANGUAGE ARTS, CONTENT AND LANGUAGE SUPPORT**

Offered all semesters.

#### **0472 Beginner ESL 1** (elective credit)

#### **0482 Beginner ESL 2** (elective credit)

#### **0562 Intermediate ESL 1** (English credit)

#### **0572 Intermediate ESL 2** (English credit)

#### **1562 Advanced ESL 1** (English credit)

#### **1572 Advanced ESL 2** (English credit)

#### **0043 10 Basic English** (English credit)

#### **8472 ELL Tutorial 1** (elective credit)

#### **8482 ELL Tutorial 2** (elective credit)

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

# Fine Arts Department

## Visual Arts

### 6202 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.

### 6232 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 scratchboard. Assignments will include drawing manmade 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.

### 6242 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.

### 6252 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.

### 6262 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.

### 6272 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.

### 6282 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.

### 6292 Sculpture

*Grades 9-12. 1 semester. ½ credit. 1 Retake. Prerequisite: Fundamentals of Art.*  
This course is an introduction to three-dimensional work using a variety of materials such as metal, wood, plaster, and clay. Students retaking the course will be able to choose more individual direction in their work.

### 6312 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.

### 6322 Metals 2 (Troy High)

*Grades 10-12. 1 semester. ½ credit. 2 Retakes. Prerequisite: Metals 1.*  
Students will learn about patternmaking 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.

### 6362 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.

### 6373 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.

### 6382 Advertising Art

*Grades 9-12. 1 semester. ½ credit. 1 Retake. Prerequisite: Fundamentals of Art.*  
This course presents the use of and information about the many elements of art and graphic design, idea development, and layout combined with current marketing and advertising psychology. Students create their own advertisements utilizing these components. A field trip to a major ad agency is arranged.

### 6393 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.

### 6422 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.

### 6432 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.

### 6352 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.



### **7112 Photography 1**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: None (Athens) Computer Graphics 1 (Troy High)*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

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.

### **8682/8692 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.

## **Instrumental Music**

### **6003 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* may request a waiver for ½ of the elective physical education credit if they participate in marching band for two seasons.

### **6013 Concert Band**

*Grades 9-12. 2 semesters. ½ credit per semester. 2 Retakes. Prerequisite: Audition with band director, as well as previous experience playing a wind or percussion instrument.*

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 Band* may request a waiver for ½ of the elective physical education credit if they participate in marching band for two seasons.

### **6002 Color Guard**

*Grades 9-12. 1 semester. ½ credit per semester. 4 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.

### **6023 Campus Band**

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

### **6033 Jazz Ensemble**

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

### **6063 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.

### **6073 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.

### **6083 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.

## Theatre Arts

### 0162 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.

### 0402 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.

### 0412 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.

### 0422 Theatre III

*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

### 6123 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.

### 6103 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.

### 6113 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.

### 6133 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.

### 6132 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.

# Health Department

---

## **8852 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.**

## **8573 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

---

## **7003 Automotive Technology 1 (Troy High)**

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

◆ *Course satisfies 1 credit of the math-related graduation requirement.*

The course will cover basic automobile fundamentals. Units on engine and its support systems, drive train, and suspension will be studied. Most information will be presented in demonstration and lecture form with visual aids employed. The students will apply what is learned through hands-on exercises.

## **7193 Automotive Technology 2 (Troy High)**

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

◆ *Course satisfies 1 credit of the math-related graduation requirement.*

*Automotive Technology 2* is a second-year, one-hour-per-day course. It will allow the student to further develop skills in the auto mechanics area. Topics covered in this class are: engine and clutch systems, chassis and suspension systems, fuel and exhaust systems, electrical systems, transmissions, brake systems, lubrication, and maintenance.

## **7213 Automotive Technology 3 (Troy High)**

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

◆ *Course satisfies 1 credit of the math-related graduation requirement.*

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.

## **7002 Basic Car Care - Female (Troy High)**

## **7012 Basic Car Care - Male (Troy High)**

*Grades 11-12. 1 semester. ½ credit. No Retake. Prerequisite: None.*

Basic automotive fundamentals. Students will be introduced to automotive systems, and the care required to maintain them. The topics include: shop safety, vehicle safety inspections, fluid checks, vehicle identification, wheels and tires, cooling and lubrication, exhaust system fundamentals, basic electrical, fuel system fundamentals, and brake system theory.

## **7032 CAD/Engineering Drawing 1**

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

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

This is an introductory drafting course in mechanical drawing for all grades. Primary emphasis is placed on mastering multi-view drawings using orthographic techniques of projection. Pictorial drawings will also be covered with isometric and oblique techniques. Descriptive geometry will be studied. Students will be applying their drafting skills on the computer using Auto-CAD.

## **7042 CAD/Engineering Drawing 2**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: CAD/Engineering Drawing 1.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

This course is a continuation of *Engineering Drafting 1* primarily using Auto-Desk software. New areas of drafting theory including dimensioning and tolerance, auxiliary views, sectional views, fasteners, threads and gears will be studied. Students will be applying their drafting skills on the computer and the drafting board. Students will have the opportunity to design CO2 cars using Auto-Desk Inventor. This class will be introduced to Auto-Desk Inventor.

### **7052 CAD/Engineering Drawing 3**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: CAD/Engineering Drawing 1 & 2.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

This course is a continuation of Engineering Drawing 1 and 2. New areas of drafting theory including intersection and developments advanced dimensioning techniques relating to industry standards, working drawings such as detailed assemblies and sheet metal manufacturing processes will be studied. This class will also explore the study of two and four stroke engines. This course will use Auto-CAD and Inventor software programs.

### **7062 CAD/Engineering Drawing 4**

*Grades 9-12. 1 semester. ½ credit. No Retake. Prerequisite: CAD/Engineering Drawing 1, 2 & 3.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

In Engineering 4 the student will be reacquainted with skills learned in Engineering Drawing 1, 2 and 3. Major emphasis will be placed on Geometric Dimensioning and Tolerancing. Students will design and build a bridge for the purpose of understanding structures. Students will also compete in the following Engineering Drawing contests with presentation drawings: Automotive Society of Body Engineers and Michigan Industrial Technology Society.

### **7022 Introduction to Computer Aided Design / CAD**

*Grades 9-10. 1 semester. ½ credit. No Retake.*

*Prerequisite: None.*

This class introduces drafting fundamentals which make up a language that is used in manufacturing and construction for communicating ideas and instruction in the design field. Autodesk products such as Auto-Cad, Inventor, Revit, and 3D Max will be taught. Emphasis is placed with a hands-on experience which will give students the skills needed to understand how a computer and CAD design software is used in the design process. Students will gain understanding of basic drafting skills and computer aided skills needed to communicate in the manufacturing, architectural, and design fields.

### **7283 Interior Design / CAD (Troy High)**

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

*Prerequisite: None.*

◆ *Course satisfies 1 credit of the math-related graduation requirement.*

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.

### **7182 Honors Engineering CAD**

*Grades 11-12. 1 semester. ½ credit.*

*Prerequisite: None.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

This course is a fast paced higher level course intended for juniors or seniors planning on attending an engineering school. Emphasis will be placed on drafting standards in computer aided design using Auto-CAD and Inventor software. Content areas include: orthographic projection, descriptive geometry and geometric construction dimensioning standards sectional views, auxiliary views, fasteners and detailed working drawings. Students will maintain a CAD/Drafting portfolio which will be instrumental in the college interview process. This course is required by most engineering colleges.

### **7122 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.

### **7102 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.

### **7132 Principles of Photography 2 (Athens)**

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

*Principles of Photography 1.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

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.

### **7133 Woods 1**

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

*Prerequisite: None.*

*Woods 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.

### **7143 Woods 2**

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

*Prerequisite: Woods 1 or teacher approval.*

*Woods 2* is a continuation of *Woods 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.

### **7153 Woods 3 - Home Applications**

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

*Prerequisite: Woods 1 and 2.*

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.

**7224 Construction Trades (Athens)**

Grades 11-12. 2 semesters. 1 credit per semester.

Prerequisite: None.

*Construction Trades* is a two-hour, one year vocational education course offered in coordination with the National Center for Construction Education and Research (NCCER). The NCCER has established a nationally standardized craft training program for the construction and maintenance industries. The curriculum consists of learning the basic skills and knowledge needed for an entry-level position in each of the following trades: carpentry, roofing and siding, masonry, electrical, plumbing, blueprint reading, and construction estimating. Students may enroll a second year where they will receive advanced instruction in each of the trades listed above.

**7072 Architectural Drawing 1**

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

◆ Course satisfies ½ credit of the math-related graduation requirement.

This class is designed for students interested in architectural drafting for personal use and to explore architecture as a career option. This course also introduces techniques of architectural drafting, including lettering, sketching and orthographic projection techniques. Students will learn how to use architectural tools, concepts and principles to draft and build a residential structure. This course will use Auto-CAD and Auto-Desk Revit software.

**7082 Architectural Drawing 2**

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

Prerequisite: Architectural Drawing 1.

◆ Course satisfies ½ credit of the math-related graduation requirement.

This course is a continuation of Architectural Drawing 1 with emphasis on a complete set of house plans. Students will draw a complete set of working drawings including plot plans, foundation plans, floor plans details, sections and electrical plans. This course will use Auto-Desk Rivet software.

**7142 Introduction to Animation**

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

Prerequisite: Engineering Drawing I.

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.

**7172 Animation 2**

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

Prerequisite: Introduction to Animation.

In this class, students will be reacquainted with skills learned in Introduction to Animation. This course examines 3DsMax: a powerful three-dimensional program used in design for engineering, architectural and entertainment. Content area in this class includes: standard lighting techniques, cameras and rendering, spline-based modeling, polygon modeling basics, hierarchies and controllers and constraints. Students will complete a final project in game design.



# Life Skills Department

## **7242 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).

## **7262 Parenthood / Child Development 2**

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: Parenthood/Child Development I. This class is eligible for advanced placement credit at Oakland Community College.*

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. Students will have hands-on opportunity at either an elementary school or the Athens Lab Nursery.

## **7252 Personal Living**

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

**Athens:**This course deals with the individual and the relationship with others. The course deals with basic human needs such as: self-awareness; coping; interpersonal relationships, roles, marriage; preparation for single living--food, clothing, shelter, money, health; and maximizing human potential--growth and achievement.

**Troy:**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.

## **7272 Personal Money Management (Troy High)**

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

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

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.

## **7292 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.

## **7282 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.

## **7332 Fashion Design 1 (Troy High)**

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

Students will have an opportunity to study and practice the principles of line and design. In this course, basic sewing skills, equipment and terms will be covered. Students will also use the computer to aid in the fashion design process to create an original garment. Tye-dye will be used to explore color. Texture and Fabric performance will be studied as they relate to clothing construction. 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.

## **7342 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.



**7372 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.

**7283 Interior Design / CAD (Troy High)**

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

◆ Course satisfies 1 credit of the math-related graduation requirement.

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

---

**7393/7394 Teaching Careers in ED 1 - 1 Hour (Athens)**

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

Teaching Careers in Education 1 involves training for a position working in the field of education. With an emphasis on early childhood education (ages 3 to 5 years old). Students serve as teachers for Troy Athens Preschool, located within Athens High School. Students will study early childhood curriculum, positive discipline, childhood growth and development and team building skills. Students are expected to plan for, work with, and evaluate their participation in the preschool program. This course is a great experience for any student interested in the field of education or working with children. The Troy Athens Preschool is a state licensed facility and open to members of the community. Advance Placement credit is offered at Oakland Community College, Baker College and Macomb Community College upon completion of the class.

**7403 Teaching Careers in ED 2 - 1 Hour (Athens)**

Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: Teaching Careers in ED 1

Teaching Careers in Education 2 involves training for a position working in the field of education. With an emphasis on infant and toddler years (prenatal to 3 years old). Students serve as teachers for Troy Athens Preschool within Athens High School. Students will study early childhood curriculum, positive

discipline, childhood growth and development and team building skills. Students are expected to plan for, work with, and evaluate their participation in the preschool program. This course is a great experience for any student interested in the field of education or working with children. The Troy Athens Preschool is a state licensed facility and open to members of the community. Advance Placement credit is offered at Oakland Community College, Baker College, and Macomb Community College upon completion of the class.

**7414 Teaching Careers in ED 3 - 2 Hours (Athens)**

Grade 12. 2 semesters. 2 credits. Prerequisite: Child Care Occupations 1 and 2.

Independent study and must be on co-op. Third year students will study growth and development of children from infancy to 5 years old. Third year students will receive a Nanny Certificate and can qualify for advanced placement credit at Oakland Community College, Baker College, and Macomb Community College upon completion of this class.





# 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.

### 7384 Restaurant Operations / Terrace Cafe - 2 Hours (Athens)

*Grades 10-12. 2 semesters. 2 hours. 2 credits. Retake.*

◆ *Course satisfies ½ credit per hour per semester of the 12th grade math-related graduation requirement.*

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.

### 7373 Commercial Baking - 1 Hour (Athens)

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

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

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.

### 7473 Commercial Foods - 1 Hour (Athens)

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

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

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.

### 7363 Restaurant Management and Supervision - 1 Hour (Athens)

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

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

This course focuses on the skills needed to become a manager or supervisor in the hospitality/food service industries. The year will begin with sanitation and food safety and move on to teambuilding and supervision skills. We will learn how to work effectively with other people and build successful customer relations as well as business skills such as; purchasing, inventory control, and basic accounting practices. We will explore careers in food service, hospitality, and the travel industries. Students will work one-on-one with the chef/instructor to close the restaurant each day. This unique hands-on experience will involve all aspects of the closing from final clean-up, cash reconciliation, ordering supplies, and inputting daily accounting figures.

### 7383 Food Service Co-op - 1 Hour (Athens)

*Grades 11-12. 2 semesters. ½ credit per semester. Prerequisite: one year of food service coursework.*

This course may be taken if the co-op coordinator feels that the student has sufficient skills in the vocational area. The student must be currently enrolled in or have successfully passed a food service class.



# Mathematics Department

## **3043 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.

## **3063 Geometry**

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

*Prerequisite: None*

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.

## **3263 Algebra 2 Part A (Equivalent to Alg. 2 Sem 1)**

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

*Prerequisite: Teacher recommendation, credit in Algebra 1 and credit in Geometry or Informal Geometry.*

Content includes equations and inequalities, operations with polynomials, rational expressions, irrational and complex numbers, quadratic equations, functions, systems of equations, and sequences and series.

## **3273 Algebra 2 Part B (Equivalent to Alg. 2 Sem 2)**

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

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

Content includes statistics and data analysis, probability, and combinatorics. The course also includes a study of trigonometry including functions, circle and triangle trigonometry, trigonometric applications, conic sections, and logarithms.

## **3093 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.

## **3183 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.

## **3233 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.

## **3253 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.

## **3023 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.

## **3173 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.

## **3203 Calculus BC - AP**

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

*Retake. Prerequisite: B or better in Precalculus Honors and teacher recommendation, and 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.

## **3212 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.

## **3930 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.

### 3222 Linear Algebra (Dual Enrollment/Lawrence Tech)

Grades 11-12. 1 semester. 1/2 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.

### 3213 Statistics - AP

Grades 10-12. 2 semesters. 1/2 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.

### 3112 Computer Explorations (Troy High)

Grades 9-12. 1 semester. 1/2 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.

### 3162 Computer Science - AP

Grades 10-12. 1 semester. 1/2 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.

### 3123 Operations Research

Grades 11-12. 2 semesters. 1/2 credit per semester.

Prerequisite: 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. In the probabilistic curriculum, topics include probability distributions and decision trees.

### 3142 Computer Science 1

Grades 9-12. 1 semester. 1/2 credit. Prerequisite: The student should have at least one credit in any algebra course.

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.

### 3373 Computer Science Principles AP

Grades 9-12. 2 semesters. 1/2 credit per semester. No retake

Prerequisite: 1 year of Algebra

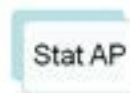
AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP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

## Honors Math Sequence

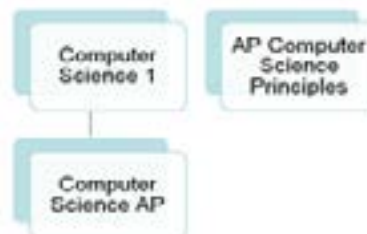


- Stat AP may be taken any time after a student has completed Algebra 2.

### Math Elective



## Computer Science Sequence

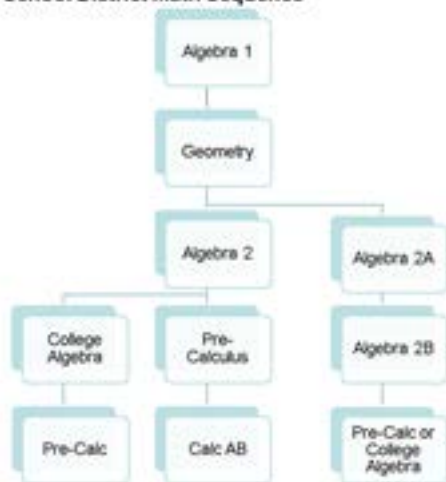


- There is no prerequisite for Computer Science 1.
- A student must have completed Algebra 1 to take AP Computer Science Principles

### Troy School District Math Sequence

•A student may elect to take Stat AP or Operations Research any time after they have completed Algebra 2.  
 •A student may elect to take a math-related course as a Senior.

### Math Electives



# Media Department

---

## **8492 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.

## **8502 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.

# Physical Education Department

---

## **6162 Exercise and Life-long 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.

## **6172 Self Defense (Troy High)**

*Grades 9-12. 1 semester. ½ credit. 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.

## **7942 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.*

## **Introduction to Physical Activity**

### **7952-Level 1 or 7962-Level 2**

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

This course is a required one-semester class. 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 course 7952 or 7962--student cannot take both courses for credit.

**7952 Level 1** - 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.

**7962 Level 2** - The *Level 2 Introduction* class 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.

## **7972 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.

## **7982 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.

## **7992 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.

## **8002 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.

## **8012 Beginning Tennis - Lifetime Sports & Fitness**

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

This course will include the basic skills and rules of tennis. Lifetime sports will be taught during the time the class is indoors. The student will take part in various tournaments.

**7932 Intermediate Tennis - Lifetime Sports & Fitness**

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

This course is designed for the serious tennis player who already can perform forehand and backhand ground strokes and the overhead serve. Singles and doubles matches will be emphasized, along with advanced court strategies. Lifetime sports will be taught during the time the class is indoors.

**7922 Weight Training and Aerobics - Fall****7912 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.

**8032 Wrestling/Conditioning & Lifetime Sports/ Fitness**

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

This course will include the basic fundamentals of wrestling rules and regulations. Students will also have the opportunity to use the weight machine. Students will also participate in lifetime activities and sports which may include walking, jogging, table tennis, and volleyball.

**8042 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.

**8022 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.

**8052 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.

**8062 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.

**8072 Lifeguarding and Lifetime Sports & Fitness**

Grades 9-12. 1 semester. ½ credit. Retake. Prerequisite: Must be 15 years of age. 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

---

## **4003 Introductory Biology**

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

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.

## **4053 Biology: Anatomy and Physiology**

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

*Prerequisite: 1 credit of Biology A with a minimum grade of C, or Biology B with a minimum grade of B, or consent of instructor.*

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.*

## **4063 Genetics, Bacteriology, Biotechnology, and Embryology**

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

*Prerequisite: 1 credit of Biology A with a minimum grade of C, or Biology B with a minimum grade of B, or consent of instructor.*

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.

## **4073 Biology - AP**

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

*Prerequisite: Two years of biology and Chemistry 1 or consent of instructor. GBBE (4063) is recommended.*

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.

## **4093 Chemistry 1**

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

*Prerequisite: Algebra 1 with a grade of B or better.*

◆ *Course satisfies 1 credit of the math-related graduation requirement.*

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.

## **4102 Organic Chemistry**

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

*Chemistry 1 with a grade of B or better.*

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*.

## **4123 Chemistry 2**

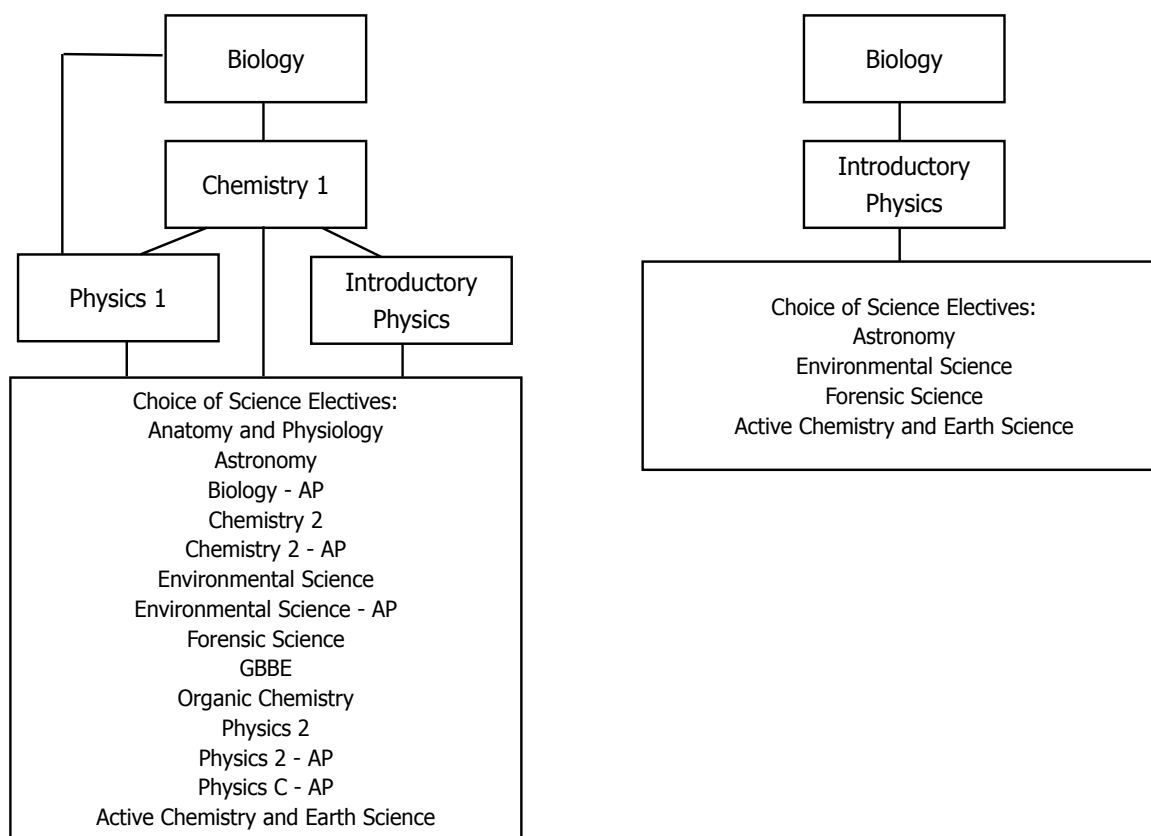
*Grades 11-12. 2 semesters. ½ credit per semester. No Retake.*

*Prerequisite: Chemistry 1 with a grade of B or better.*

◆ *Course satisfies ½ credit of the math-related graduation requirement.*

The first semester of *Chemistry 2* will cover theoretical aspects of chemistry which will include stoichiometry, solutions, kinetics, equilibrium, acid-base theory, oxidation-reduction, and electrochemistry. All concepts will be reinforced with laboratory experiments. Second semester will be organic chemistry which is described above. Students who have completed *Chemistry 2 AP* may take the 2nd semester of *Chemistry 2*.

# Science Department



## 4243 Chemistry 2 - AP

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

*Prerequisite: Chemistry 1 with a grade of B or better.*

◆ *Course satisfies 1 credit of the math-related graduation requirement.*

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.

## 4212 Astronomy

*Grades 10-12. 1 semester. ½ credit. No Retake. Prerequisite: 1 year of Algebra.*

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.

## 4213 Introductory Physics

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Passing grade for Biology A or B and Algebra 1.*

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.

## 4223 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 1 credit of the math-related graduation requirement.*

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.



### 4233 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 1 credit of the math-related graduation requirement.

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.

### 4253 Physics 2 - AP

Grades 11-12 or instructor approval. 2 semesters. ½ credit per semester. 1 Retake. Prerequisite: B or better in Algebra 2 and Physics 1

◆ Course satisfies 1 credit of the math-related graduation requirement.

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.

### 4263 Physics C - AP

Grades 11-12 or instructor approval. 2 semesters. ½ credit per semester. 1 Retake. 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 1 credit of the math-related graduation requirement.

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.



### 4042 Forensic Science

Grades 11-12. 1 semester. ½ credit. No Retake. Prerequisite: Biology A or B 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 investigational studies.

### 4013 Active Chemistry and 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.

### 4222 Environmental Science

Grades 11-12. 1 semester. ½ credit. No Retake. Prerequisite: 2 semesters of Biology A or B 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.

### 4273 Environmental Science - AP

Grades 11-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: Algebra 1, Biology A 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.

**Note:** A student cannot take this course if they have already completed the one-semester Environmental Science course.



# Social Studies Department

## 2072 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.

## 2503 Human Geography - AP

*Grade 9. 2 semesters. ½ credit per semester. No Retake.*  
*Prerequisite: Concurrently enrolled in 9th grade Honors English.*  
The AP Human Geography course will prepare students for the Advanced Placement exam which may entitle the student to college waivers/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.

## 2012 American History / Geography 1

## 2022 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.

## 2232 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.

## 2062 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.

## 2242 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.

## 2013 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 advanced 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.

## 2052 Government - AP

*Grade 11-12. 1 semester. ½ credit. No Retake. Prerequisite: a recommendation from both a social studies teacher and an advanced 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.

## 2032 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.

## 2102 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.

## 2152 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.

**2162 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.

**2163 Psychology - AP**

Grades 11-12. 2 semesters. ½ credit per semester. No Retake. Prerequisite: None.

This AP Psychology 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.

**2182 Sociology**

Grades 11-12. 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.

**2233 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 advanced 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.

**2073 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.

**2322 Political Science**

Grades 11-12. 1 semester. ½ credit. No Retake. Prerequisite: Government/Civics (9th Grade), American History (10th Grade).

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.

**2082 Philosophy (Athens)**

Grades 11-12. 1 semester. ½ credit. No Retake. Prerequisite: Government/Civics (9th Grade), American History (10th Grade).

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.

**2122 Introduction to Leadership**

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

**2112 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, cult formation, conformity and obedience, attitude formation and prejudice.

**2042 AP Comparative Politics**

Grades 11-12. 1 semester. ½ credit. No Retake. Prerequisite: Recommendation from both a social studies teacher and an advanced 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.

## Social Studies Department Required Courses - 3 Credits

9th	World History / Geography 1 and / or Human Geography - AP
10th	American History / Geography 1 & 2 or American History - AP
11th	Economics and Government / Civics
12th	World History / Geography 2

# Special Education Department

---

## **9102 Advanced Study Skills 1 (Troy High)**

*Grade 10-12. 1 semester. ½ credit. 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 part of class learning specific study skills including note taking, test taking, and memory strategies. Students will spend the rest of class applying these study skills. Time is also given for organization and work completion.

## **9142 Advanced Study Skills 2 (Troy High)**

*Grade 10-12. 1 semester. ½ credit per semester. 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 part of class learning specific study skills including note taking, test taking, and memory strategies. Students will spend the rest of class applying these study skills. Time is also given for organization and work completion.

## **9243 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.

## **9253 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.

## **9273 Language! Live (Level 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.

## **9283 Language! Live (Level 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.

## **9422 Careers (Troy High)**

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

*Prerequisite: None*

This is a Careers class for students who have been certified by an IEPT. This class is designed to teach the development of job skills to be competitive in the 21<sup>st</sup> century. Content includes: researching and learning about different careers, resume writing, job applications and managing finances.

## **9652 Study Skills 1**

*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.

## **9662 Study Skills 2**

*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.

## **9303 EDGE Fundamentals 1A**

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

*Prerequisite: IEP Recommendation.*

EDGE Fundamentals 1A 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.

## **9573 EDGE Fundamentals 1B**

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

*Prerequisite: IEP Recommendation.*

EDGE is a core Reading/Language Arts program designed for students reading below grade level. EDGE is designed to enhance and strengthen vocabulary and comprehension.

## **9332/9342 Math Skills 2A/2B**

*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.

## **9632/9642 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.

**3003 Integrated Mathematics 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.

**3103 Integrated Mathematics 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.

**3272 Math Lab Semester 1 (Troy High)**

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

Prerequisite: IEP Recommendation.

**3282 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.



Special Education Services  
4420 Livernois  
Troy, Michigan 48098  
248.823.5096 Voice  
248.823.5052 Fax  
[www.troy.k12.mi.us](http://www.troy.k12.mi.us)

# World Language Department

---

## **0603 French 1**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: C or better in English.*

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.

## **0613 French 2**

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

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.

## **0623 French 3**

*Grades 10-12. 2 Semesters. ½ credit per semester. Prerequisite: C or better in French 2.*

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.

## **0633 French 4**

*Grades 11-12. 2 semesters. ½ credit per semester. Prerequisite: C or better in French 3.*

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.

## **0643 French - AP**

*Grade 12 only. 2 semesters. ½ credit per semester. Prerequisite: French 4 with a B or better.*

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.

## **0653 German 1**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: C or better in English.*

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.

## **0663 German 2**

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

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.

## **0673 German 3**

*Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: C or better in German 2.*

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.

## **0683 German 4**

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

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.

## **0693 Spanish 1**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: C or better in English.*

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.

## **0703 Spanish 2**

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

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.

## **0713 Spanish 3**

*Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: C or better in Spanish 2.*

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.

## **0723 Spanish 4**

*Grade 11-12. 2 Semesters. ½ credit per semester. Prerequisite: C or better in Spanish 3.*

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.

**0733 Spanish - AP**

*Grade 12 only. 2 semesters. ½ credit per semester. Prerequisite: Spanish 4 with a B or better.*

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.

**0823 Japanese 1**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: C or better in English.*

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.

**0833 Japanese 2**

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

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.

**0843 Japanese 3**

*Grades 10-12. 2 semesters. ½ credit per semester. No Retake, Prerequisite: C or better in Japanese 2.*

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.

**0863 Japanese 4**

*Grades 11-12. 2 semesters. ½ credit per semester. Prerequisite: C or better in Japanese 3.*

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.

**0853 Chinese 1**

*Grades 9-12. 2 semesters. ½ credit per semester. Prerequisite: C or better in English.*

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.

**0873 Chinese 2**

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

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.

**0883 Chinese 3**

*Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: C or better in Chinese 2.*

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.

**0893 Chinese 4**

*Grades 11-12. 2 semesters. ½ credit per semester. Prerequisite: C or better in Chinese 3.*

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.

**0813 Chinese AP**

*Grades 10-12. 2 semesters. ½ credit per semester. Prerequisite: Chinese 4 with a B or better.*

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.





# Oakland Schools Technical Campus - Southeast

## 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. There are nine clusters which 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 or finish a program as a post graduate. The second year of a program is designed to provide advanced work, specialization, and a certificate of completion. Students may complete a program or attend OSTC-SE after graduation on a nominal tuition fee basis.

## 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.

**Note:** Students attending the Northeast campus must provide their own 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 application to the Guidance Office by March 1. Since all openings 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 to request a Course Selection Guide for Oakland Schools Technical Campus-Southeast. For detailed program descriptions, please go to the Oakland Schools website at the following link.

<http://www.ostconline.com>

thenclickonthelinktotheprogramscampusesformoreinformation.

## Southeast Campus (Royal Oak)

5055 Delemere Street

(north of 14 Mile between Crooks and Coolidge)

**8101 Session 1 AM**

**8102 Session 2 PM**

*Grades 11-12*

**Biotechnology and Environmental Science**

**Construction Technology**

**Culinary Arts / Hospitality**

**Engineering / Emerging Technologies**

**Health Sciences**

**i Team**

**Transportation Technology**

**Visual Imaging Technology**

**\*i Team - Information Technology, Entrepreneurship, Advanced Marketing**

## Northeast Campus (Pontiac)

1371 N. Perry

**8172 Cosmetology**

*Grades 11-12*

Students must provide own transportation to the Northeast Campus.

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

# NCAA ELIGIBILITY CENTER QUICK REFERENCE GUIDE



## 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



## 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 1200 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 these 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 Voice  
248.823.5051 Fax  
[www.troy.k12.mi.us](http://www.troy.k12.mi.us)