

Saugus High School

Catalog of Courses 2011-2012

*A
California Distinguished
School*

Home of the Centurions

21900 Centurion Way, Saugus, CA 91350 • (661) 297-3900

web site: <http://www.hartdistrict.org/saugus>

Saugus High School

Principal	William Bolde
Assistant Principal	Rich Bahr
Assistant Principal	Diane Hamburger
Assistant Principal	Martha Spansel
Assistant Principal.....	Rita Thomas
Co-Athletic Director	Marcus Garrett
Co-Athletic Director.....	Jeff Hallman

Faculty

Full-Time Teachers	86
Librarian	1
Counselors	6
Bachelor's Degrees	56%
Master's Degrees	43%
Doctorate Degrees	1%

Accreditation

Saugus Senior High School is fully accredited by the Western Association of Schools and Colleges. We are a *California Distinguished School*.

Curriculum

Saugus High has a wide-ranging program of course offerings. The curriculum is designed to meet the needs of virtually all students, whether they are college-bound, vocationally oriented or have special plans. There is a full complement of Advanced Placement and Honors courses, a regular program, Special Education and a wide variety of vocational courses.

The Wm. S. Hart Union High School District does not discriminate by sex in employment or educational opportunity, in compliance with Title IX, Federal Education Amendments of 1972.

Title IX Coordinator is **Mr. Greg Lee**, 21515 Centre Point Parkway, Santa Clarita, CA 91351 (661) 259-0033 ext. 232.

Saugus High School Shared Mission

At Saugus High, we promote all students' learning to ensure personal growth and future success.

Saugus High School Shared Vision

The Saugus High School community is committed to these values for all members. We take pride in our greatest achievement, the success of our students. We do this by:

- challenging all to reach their maximum potential through learning that has personal meaning and extends throughout their lives;
- creating a community that respects the diversity of our members and values the importance of each member;
- building a safe and supportive environment that fosters success and allows for risk taking;
- establishing relationships that are based on respect and integrity;
- behaving in honorable ways and being accountable for our actions.

Expected School-wide Learning Results

1. Achieve Academic Competency
<ul style="list-style-type: none">• Use computational skills to analyze and solve problems.• Read and comprehend written material.• Write in a logical coherent manner.• Use technology as a tool.

4. Exhibit Discipline and Self-Control
<ul style="list-style-type: none">• Care for mankind and the environment.• Assume responsibility for self - knowledge.• Exhibit discipline and self-control.• Demonstrate a work ethic that reflects dependability, integrity and honesty.

2. Effective Communication Skills
<ul style="list-style-type: none">• Speak effectively.• Actively listen, interpret and synthesize information.• Express ideas with confidence.• Initiate, receive and respond effectively to verbal and written messages.

5. Practice Good Citizenship
<ul style="list-style-type: none">• Different viewpoints and reasoning processes.• Uphold civic responsibilities.• Understand the principles of democracy.• Utilize consensus-building skills

3. Demonstrate Intellectual Development
<ul style="list-style-type: none">• Develop and use critical thinking skills.• Demonstrate and apply awareness and appreciation.• Appreciate aesthetics by practicing and experiencing fine, performing and practical arts.• Value literacy and the importance of the written word.

6. Exhibit Personal Growth
<ul style="list-style-type: none">• Enjoy a healthy, active lifestyle.• Develop a sense of worthiness and positive self-esteem.• Practice positive social skills including adjusting to authority and change.• Demonstrate leadership skills.• Create post-high school goals and plans.

Saugus High School Critical Academic Needs

1. *Students must receive support in developing critical thinking skills*
2. *Students must receive support in developing effective communications skills*

**Wm. S. Hart Union High School District
Graduation Requirements**

- A. English _____ 40 credits
 - B. Mathematics _____ 20 credits
 - C. Science _____ 20 credits
(1 year Physical/Earth and 1 year Biology)
(Saugus High School's policy is 3 years of science)
 - D. Social Studies _____ 30 credits
 - Modern Civilizations (10th) _____ 10 credits
 - U.S. History (11th) _____ 10 credits
 - American Government (12th) _____ 5 credits
 - Economics (12th) _____ 5 credits
 - E. Health _____ 2.5 credits
 - F. Practical Arts _____ 5 credits
(Business or Industrial Arts)
 - G. Fine Arts _____ 10 credits
- OR**
- 1 semester of Fine Arts with at least
1 year of World Language
(University bound students need 10 credits
of Fine Arts and 2 years of Foreign Language)
- H. Physical Education _____ 20 credits
 - I. Electives _____ 72.5 credits

Total Credits Required _____ 220 credits

University of California

Undergraduate Admission Requirements

Subject Requirements: a-g

To satisfy this requirement, you must complete the high school courses listed below:

- You must take 15 units of high school work to fulfill the Subject Requirements, and at least seven of the 15 units must have been earned in courses taken during the last two years of high school. For high school course work, a yearlong course is equal to one unit.
 - For a California high school, your course work must appear on a certified course list submitted by the high school principal and on file with the Office of the President-Student Academic Services.
- a. **History/Social Science - two years required.** Two years of history/social science to include the following: one year of U.S. history or one-half year of U.S. history and one-half year of civics or American Government; and one year of world history, cultures and geography.
 - b. **English - four years required.** Four years of college-preparatory English that include frequent and regular writing and reading of classic and modern literature. Not more than two semesters of ninth grade English can be used to meet this requirement.
 - c. **Mathematics - three years required - four years recommended.** Three years of college preparatory mathematics that include the topics covered in elementary and advanced algebra and two and three-dimensional geometry. Math courses taken in the seventh and eighth grades that Saugus High School accepts as equivalent to its own courses may be counted toward this requirement.
 - d. **Laboratory Science - two years required - three years recommended.** Two years of laboratory science providing fundamental knowledge in at least two of these three disciplines: biology (which includes anatomy/physiology and animal biology), chemistry, and physics. Not more than one year of ninth grade laboratory science can be used to meet this requirement.
 - e. **Language Other than English - two years required - three years recommended.** Two years of the same language other than English.
 - f. **Fine Arts - one year required.** One year (two semesters) of a sequential course in dance, drama/theater, music or visual arts.
 - g. **College Preparatory Electives - one year required.** One year (two semesters), in addition to those required in “a-f” above, chosen from the following areas: visual and performing arts, history, social science, English, advanced mathematics, laboratory science and language other than English (a third year in the language used for the “e” requirement or two years of another language).

Honors Courses

The University assigns extra points for up to four units of University certified honors level and advanced placement courses taken in the last three years of high school: A=5 points, B=4 points, C=3 points. No more than two units of certified honors level courses taken in the tenth grade may be given extra points. A grade of D in an honors or advanced placement course does not earn extra points. The high school must certify that the courses are offered at the honors level. Courses designed to prepare students for the College Board Advanced Placement Examination as well as college courses recorded on your high school transcript that are transferable to the University are acceptable as honors-level courses.

Examination Requirement

You must submit the following test scores:

- Either the Scholastic Assessment Test I: Reasoning Test (SAT I) or the American College Test (ACT). The verbal and mathematics scores on the SAT I must be from the same sitting. The ACT composite score must be submitted.
- Scholastic Assessment Test II:* Subject Tests (SAT II), include mathematics Level 2, English literature, foreign language, science and social studies.

* are recommended for UC admission

Students applying for admission for the fall term must take the SAT or ACT tests by December of their senior year.

For registering information please go to the Collegeboard or ACT websites:

www.collegeboard.com

www.actstudent.org

California State University Undergraduate Admission Requirements

Freshman Admission Requirements

To establish eligibility for admission as a first-time freshman, an applicant is required to:

- (1) be a high school graduate;
- (2) have completed, with grades of “C” or better, each of the courses in the comprehensive pattern of college preparatory subject requirements; and
- (3) have a qualifiable eligibility index.

College Preparatory Pattern

First-time freshman applicants are required to have completed, with a grade of C or better in each course, the 15-unit comprehensive pattern of college preparatory study. A unit is equal to one year of study in high school.

English	4 units
Mathematics (algebra, geometry, intermediate algebra).....	3 units
World History	1 unit
U.S. History/Economics and Government	1 unit
Science with lab (one year of life science and one year of physical science)	2 units
World Language (subject to waiver for applicants demonstrating equivalent competence).....	2 units
Visual and Performing Arts.....	1 unit
Electives (English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts and agriculture).....	1 unit

For the purpose of satisfying CSU’s college preparatory course requirements, CSU accepts all high school courses identified by the University of California as meeting “a-g” requirements.

Eligibility Index

A table showing the Eligibility Index may be found in the Admissions Application.

Students with grade point averages of 3.00 or above may establish eligibility for admission without submitting test scores.* Applicants are encouraged to take the SAT I or ACT since test scores will be included among the supplementary criteria used to determine admission to impacted campuses (impacted campuses are those that have many more qualified applicants than they have spaces) and programs.

* For non-impacted campuses

**UNIVERSITY OF CALIFORNIA
and
CALIFORNIA STATE UNIVERSITY**

Courses to meet requirements for admission

Courses to meet requirements for admission: A=5, B=4, C=3

A-HISTORY

American Government
American Government (AP)
European History A/B (AP)
Modern Civilization A/B
Modern Civilization A/B Team
U.S. History A/B
U.S. History A/B (AP)
U.S. History A/B Team (H)
World History AP

B-ENGLISH

Advanced Composition
American Literature A/B
College Prep English Grammar (CPEG)
Relevancy
English 10 A/B
English 10 A/B (H)
English 9 A/B
English 9 A/B (H)
English Language and Composition A/B (AP)
English Literature and Composition A/B (AP)
Humanities
Mythology and Folklore
Science Fiction
Shakespeare

C-MATHEMATICS (*may only be used for the "c" requirement)

*Algebra IA/B
*Algebra A/B/C
*Algebra II/Trigonometry A/B (H)
*Algebra II/Trigonometry A/B
*Algebra IIA/B
Calculus A/B
Calculus A/B (AP)
Calculus B/C (AP)

*Geometry I A/B (H)
*Geometry I A/B
Pre Calculus A/B
Pre Calculus A/B (H)
Statistics
Statistics (AP)
Trigonometry

D-LAB SCIENCE

Animal/Vertebrate Biology
Biology A/B
Biology A/B (AP)
Biology A/B (H)
Biology 2A/B
Chemistry A/B
Chemistry A/B (AP)
Chemistry A/B (H)
Human Anatomy and Physiology A/B
Human Anatomy and Physiology A/B (H)
Physics A/B
Physics A/B (AP)
Environmental Science AP
Marine Studies A/B
Microbiology/Molecular Genetics

E-WORLD LANGUAGE

French I-IV A/B
French Language A/B (AP)
Mandarin Chinese I-III
Mandarin Chinese A/B (AP)
Spanish I-IV A/B
Spanish Language A/B (AP)
Accelerated Spanish

F-FINE ARTS

2D Art A/B
3D Art A/B
3D Design A/B (AP)
Art I A/B
Ceramics I A/B
Concert Choir A/B
Digital Photography A/B
Marching Band A/Symphonic Band B
Mixed Chorus A/B
Show Choir

Small Vocal Ensemble A/B
Stage Band
Studio Art Drawing (AP)
Studio Art Design (AP)
Theater Arts I A/B, II A/B
Video Production I A/B
Women's Chamber
ROP Commercial Photography

G-ELECTIVE COURSES

AVID Senior Seminar
Business Analysis
Business Law
Contemporary American Problems
Creative Writing A/B
Earth Science I A/B
Earth Science 2A/B
Economics
Economics (H)
Human Geography (AP)
Intro to Business
Journalism
Literary Magazine
Marketing
Psychology
Sociology
World Geography

COURSES PENDING APPROVAL

Video Production II A/B

HIGH SCHOOL TERMINOLOGY

ADVANCED PLACEMENT/HONORS:

Saugus offers many Advanced Placement (AP) and Honors (H) courses. Please see listings in each department. Both weighted grade points (A = 5, B = 4, C = 3) and college credit may be earned by passing AP examinations. (AP students are expected to take the AP test.)

CALIFORNIA SCHOLARSHIP FEDERATION:

The Codes CSF-I and CSF-II designate List A solids and List B solids, defined in the CSF State Constitution. In order to qualify for CSF the student must enroll in at least three subjects designated by the Codes CSF-1 or CSF-II, and of these three, at least two must be designated CSF-I. One elective class may count for CSF membership. A student may qualify based upon their 10th, 11th, and 12th grade grades. 9th grade is honorary only.

CLASS RANK:

Class rank is a student's standing based on his/her total GPA as compared with that of the other members of the class. In a class of 100, for example, the student with the highest grade point average would be Number 1; the lowest would be Number 100.

GRADUATION HONOR SCHOLARS:

To be considered a Senior Honor Scholar at graduation you must have a 3.75 at the end of the 7th semester grading period (December). All transcripts from courses taken outside of the Hart district must be turned in by February 1st of the senior year. The same applies to be considered a Junior Honor Scholar at graduation you must have a 3.75 at the end of the 5th semester (December). Transcripts from courses taken outside of the Hart district must be turned in by February 1st of the Junior year.

NATIONAL HONORS SOCIETY:

National Honor Society is a club for students who demonstrate excellence in service, scholarship, leadership and character. They must be an active member of a club or sport, have a 3.5 average, be recommended by two or more teachers and a committee who reviews the questionnaire. They must also complete eight hours of community service each semester. Students are not eligible until their sophomore year.

CREDIT SUMMARY:

During the spring semester, counselors evaluate each student's credit standing. A general rule for normal progress through high school would require the completion of 60 credits at the end of each of the first two high school years. Each student is advised of his/her credit standing as he/she is individually counseled during the pre-registration periods.

EARLY GRADUATION:

If a student wishes to exercise the option of early graduation at the end of the first semester of the senior year, he/she must:

1. Meet all the credit, subject matter and proficiency requirements.
2. Present a request in writing prior to April of the junior year.
3. Complete an Early Graduation Request form, which includes parental permission.

GRADES:

- A - Outstanding Achievement
- B - Very Good Achievement
- C - Average Achievement
- D - Minimum Achievement
- F - Failure/Unsatisfactory Achievement
- I - Incomplete
- NM - No Mark (no credit given)
- P - Pass

GUIDANCE CENTER:

The Guidance Center is open to students and parents. Information on careers, colleges, universities, and scholarships are available. Please contact your student's counselor for information.

PERMANENT RECORD:

Each student has a permanent record indicating the following: 1) all courses taken, 2) grades earned, 3) credits earned, 4) date completed, 5) grade point average for courses, 6) rank in class, and 7) standardized test scores.

PROGRESS REPORTS/REPORT CARDS

Reports to students and parents are issued four times each semester as follows:

1. 5 week – September and February – A mid-quarter progress report is distributed to students at school.
2. 10 week – October and March – Quarter report cards are distributed to students halfway through the semester. These grades are not permanently recorded, except for quarter athletics.
3. 15 week – November and April – Mid-quarter progress report is distributed to students at school.
4. 20 week – December and June – Final report cards are mailed home in January and June. These grades **are** recorded onto the student's permanent records.

We strongly suggest you check your child's grades/attendance in Infinite Campus for the classes in question to determine if there has been an improvement. If you need directions, log into www.hartdistrict.org; click on Campus Portal. Under Parents, click on Create an Account or Log-in if you already have an account. Otherwise, you may communicate with teachers and counselors at any time if you have concerns or questions relating to your student's progress.

SPECIAL EDUCATION:

Enrollment in special education courses is done through an Individualized Education Plan. Contact a school counselor, the school psychologist or administrator if you have any questions.

Criteria for 9th Grade Program Placement

All students have the opportunity to enter the general high school program on their way to fulfilling the “a-g” Univ. of California requirements unless they have demonstrated by their middle school performance that they are not ready. They will be placed at their appropriate level upon entering the 9th grade based on the criteria listed below. They may subsequently enroll in classes meeting the “a-g” requirements as warranted by their grades.

Criteria for 9th grade placement:

English—Writing sample, vocabulary/comprehension test scores, junior high teacher recommendation.

Mathematics—UCLA diagnostic and high school math placement test scores, junior high teacher recommendation and grades in junior high classes.

Science— Junior high teacher recommendation and math placement.

World Language—a “B” or better grade in 8th grade English. Rationale: students who struggle with language skills in their first language will have the struggle compounded trying to master a world language.

ELIGIBILITY

Athletic eligibility is based on California Interscholastic Federation (CIF) Regulations. To remain eligible, students are required to be passing at least 4 classes each quarter and to maintain a minimum grade point average of 2.0 at each quarter. Athletes who fall below a 2.0 at any quarter grading period will become ineligible until the next grading quarter.

Co-curricular eligibility is based on District Regulations. Students are required to maintain a minimum grade point average of 2.0 at each quarter to remain eligible. Unlike athletes, co-curricular participants (Cheer, Chorus, Band, Flags, and Drama) may regain eligibility at the next 5-week reporting period if they raised their G.P.A. to a 2.0 or above.

During the ineligibility period, students may not travel with the group. The level of involvement during the class period or practices of students is at the discretion of each coach/advisor.

William S. Hart District policy requires that students attend all classes on the day of contests or performances, except for doctor or dental appointments, which cannot be scheduled at another time. Parents must contact the attendance office to seek administrative approval the day before the appointment to assure eligibility for the next day’s event.

For further information regarding eligibility please refer to the Williams S. Hart Notice of Student and Parent Rights, Regulations, and Responsibilities pamphlet provided to students in their registration packet.

NCAA FRESHMAN-ELIGIBILITY STANDARDS QUICK REFERENCE SHEET

KNOW THE RULES:

Core Courses

- **NCAA Division I requires 16 core courses as of August 1, 2008.** This rule applies to any student first entering any Division I college or university on or after August 1, 2008.
- **NCAA Division II requires 14 core courses.** See the breakdown of core-course requirements below. **Please note, Division II will require 16 core courses beginning August 1, 2013.**

Test Courses

- Division I has a sliding scale for test score and grade-point average. Please check the website for this information. www.ncaaclearinghouse.net
- Division II has a minimum SAT score requirement of 820 or an ACT sum score of 68.
- 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 is a **sum** of the **four** sections on the ACT: English mathematics, reading, and science.
- **All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of “9999” to make sure the score is reported to the Eligibility Center.**

Division I 16 Core-Course Rule
<u>16 Core Courses:</u> 4 years of English 3 years of mathematics (Algebra 1 or higher) 2 years of natural/physical science (1 yr of lab) 1 year of additional English mathematic or natural/physical science 2 years of social science 4 years of additional courses(from any area above, foreign language or nondoctrinal religion/philosophy)

Division II 14 Core-Course Rule
<u>14 Core Courses:</u> 3 years of English 2 years of mathematics (algebra I or higher) 2 years of natural/physical science (1 yr of lab) 2 years of additional English, mathematics or natural/physical science 2 years of social science 3 years of additional courses (from any area above, foreign language or nondoctrinal religion/philosophy)

Students enrolling at an NCAA Division I or II institution for the first time need to also complete the amateurism questionnaire through the Eligibility Center Web site. Students need to request final amateurism certification prior to enrollment.

For more information regarding the rules, please go to www.ncaa.org click on “Academics and Athletes” then “Eligibility and Recruiting.” Or visit the Eligibility Center Web site at www.ncaaclearinghouse.net

Saugus High School Courses

Not all classes listed are offered every school year

BUSINESS/COMPUTER EDUCATION

May be used to satisfy the 5 Credits Practical Arts Requirements

Business Course Listings

ACCOUNTING IA

Grades 11-12

Prerequisite: None.

This course is designed to give a thorough knowledge of the fundamentals of accounting, using the double-entry system to keep accurate records for tax and profit. Also, students will learn the accounting cycle, including the use of special journals handling payroll activities and some of the more sophisticated accounting procedures using the pen and paper method and be introduced to a **computerized accounting system**. This course is a “must” for students planning to open a business of their own, work in a business office or a bank or take a business related major in college. A consumable workbook needs to be purchased by students. Topics covered are listed below:

- Starting a Proprietorship
- Journalizing Transactions
- Posting to a General Ledger
- Worksheet for a Service Business
- Worksheet for a Service Business
- Journalizing Purchases and Cash Payment
- Preparing Payroll Records
- Starting a Proprietorship: Changes that Affect Owner’s Equity
- Analyzing Transactions into Debt and Credit Parts
- Financial Statements for a Proprietorship
- Recording Adjusting and Closing Entries for a Service Business
- Journalizing Sales and Cash Receipts
- Posting to General and Subsidiary Ledgers

ACCOUNTING IB

Grades 11-12

Prerequisite: A grade of “C” or better in Accounting IA.

This course is designed to give a thorough knowledge of the fundamentals of accounting, using the double-entry system to keep accurate records for tax and profit. Also, students will learn the accounting cycle, including the use of special journals handling payroll activities and some of the more sophisticated accounting procedures using the pen and paper method and be introduced to a **computerized accounting system**. This course is a “must” for students planning to open a business of their own, work in a business office or a bank, or take a business related major in college. A consumable workbook needs to be purchased by students. Topics covered are listed below:

- Payroll Accounting, Taxes, and Reports
- Financial Statements for a Partnership
- Recording Purchases and Cash Payments using Special Journals
- Accounting for Uncollectible Accounts Receivable
- Accounting for Inventory
- Accounting for Accrued Revenue and Expenses
- Financial Statements and End-of-Fiscal-Period Entries for a Corporation
- Worksheet for a Merchandising Business
- Recording Adjusting and Closing Entries for a Partnership
- Recording Sales and Cash Receipts using Special Journals
- Accounting for Plant Assets and Depreciation
- Accounting for Notes and Interest
- Distributing Dividends and Preparing a Worksheet

BUSINESS ANALYSIS A

Grades 9-12

Prerequisite: None.

This course is “a-g” college prep elective.

This course is designed to prepare students to work in a real business environment by learning about the nature of the business, its products and services, management and structure, and learning the daily operations. Supply and demand, taxation, the stock market, and international transactions will also be studied. Students will understand information processing concepts necessary to function in a rapidly changing technological, global society. They will demonstrate competency by performing multiple tasks required to effectively analyze data and produce useable information in a business environment. The course includes instruction on **beginning** through **intermediate** levels of computer applications. Integrated throughout the course are career preparation standards, which include communication, critical thinking, interpersonal, problem solving, technology, and other employment skills. There is a nominal consumable cost. Topics covered are listed below:

- The Office and The Business World
- Managing Time, Tasks, and Records
- Laws and Their Ethical Foundations
- Managing Information to Enhance Productivity
- Marketing Management (Travel & Tourism, and International Marketing)

BUSINESS ANALYSIS B

Grades 9-12

Prerequisite: A grade of “C” or better in Business Analysis A.

This course is “a-g” college prep elective.

This course is designed to prepare students to work in a real business environment by learning about the nature of the business, its products and services, management and structure, and learning the daily operations. Supply and demand, taxation, the stock market, and international transactions will also be studied. Students will understand information processing concepts necessary to function in a rapidly changing technological, global society. They will demonstrate competency by performing multiple tasks required to analyze effectively data and produce useable information in a business environment. The course includes instruction on **intermediate** through **advanced** levels of computer applications. Integrated throughout the course are career

preparation standards, which include communication, critical thinking, interpersonal, problem solving, technology, and other employment skills. There is a nominal consumable cost. Topics covered are listed below:

- Labor Laws
- Basic Review of the Accounting Cycle
- Career Planning and Development
- Financial Management
- Entrepreneurship Simulations

BUSINESS LAW

Grades 10-12

Prerequisite: None. Class may be taken twice.

This course is an “a-g” college prep elective.

Students will soon discover that Business Law is one of the most valuable subjects that they can take. Students will study true situations that show how business and personal law impacts not only business, but the lives of young people and adults. This course will help students achieve an understanding of legal principles they will use throughout their lives. This course has activities and performance indicators to prepare students for BPA and FBLA competitive events. There is a nominal consumable cost. Topics discussed are listed below:

- Law, Justice, and You
- The Law of Sales
- Agency and Employment Law
- Borrowing Money and Paying Bills
- Contract Law
- Property Law
- Legal Forms of Business Organization

ALGEBRA FINANCIAL WITH TECHNOLOGY A

Grades 9-12

Prerequisite: Business Analysis or a keyboarding course and completion of an Algebra A (or its equivalent) course.

This course is “a-g” college prep elective.

Algebra Financial prepares students for today’s jobs by incorporating math concepts using two approaches. One approach is to teach the concepts using the traditional method of calculating. The second approach is to teach those same concepts showing how Excel would make the calculations. Students will create formulas and use Excel’s powerful application tool, functions, and develop a high level of math skill.

Topics discussed are listed below:

- Basic Math Functions
- Fractions
- Percent
- Bank Services
- Payroll
- Taxes and Insurance
- Purchasing Merchandise
- Markup and Markdown

ALGEBRA FINANCIAL WITH TECHNOLOGY B

Grades 9-12

Prerequisite: A grade of “C” or better in Algebra Financial with Technology A.

Algebra Financial prepares students for today’s jobs by incorporating math concepts using two approaches. One approach is to teach the concepts using the traditional method of calculating. The second approach is to teach those same concepts showing how Excel would make the calculations. Students will create formulas and use Excel’s powerful application tool, functions, and develop a high level of math skill.

Topics discussed are listed below:

- Basic Math Functions
- Fractions
- Percent
- Interest
- Business Statistics

- Consumer Credit and Mortgages
- Annuities, Stocks, and Bonds
- Depreciation
- Financial Statements

INTRO TO BUSINESS A

Grades 9-12

Prerequisite: None.

This course is an “a-g” college prep elective.

Intro to Business will introduce students to the exciting and challenging world of business. Through the information and activities presented in the book and other supplemental materials, students will increase their preparation to be a knowledgeable consumer, well-prepared employee, and effective citizen in our economy. This course will serve as a background for other business courses students will take in high school and in college, prepare them for future employment or business ownership, and make students better informed citizen for an expanding international economy. There is a nominal consumable cost. Topics covered are listed below:

- | | |
|--|-----------------------------------|
| ▪ Economic Decisions and Systems | ▪ Business Organization |
| ▪ Entrepreneurship and Small Business Management | ▪ Management and Leadership |
| ▪ Human Resources, Culture, and Diversity | ▪ Career Planning and Development |
| ▪ Marketing | ▪ Business and Technology |
| ▪ Money Management and Financial Planning | ▪ Banking and Financial Services |

INTRO TO BUSINESS B

Grades 9-12

Prerequisite: A grade of “C” or better in Intro to Business A.

This course is an “a-g” college prep elective.

Intro to Business will introduce students to the exciting and challenging world of business. Through the information and activities presented in the book and other supplemental materials, students will increase their preparation to be a knowledgeable consumer, well-prepared employee, and effective citizen in our economy. This course will serve as a background for other business courses students will take in high school and in college, prepare them for future employment or business ownership, and make them a better informed citizen for an expanding international economy. There is a nominal consumable cost. Topics covered are listed below:

- | | |
|--|-------------------------------------|
| ▪ Consumer Credit | ▪ Savings and Investment Strategies |
| ▪ Economic Activity | ▪ Business in the Global Economy |
| ▪ Consumers In The Global Economy | ▪ Financial Management |
| ▪ Production and Business Operations | ▪ Risk Management |
| ▪ Social Responsibility of Business and Government | ▪ Insurance |

MARKETING

Grades 10-12

Prerequisite: None.

This course is an “a-g” college prep elective.

This marketing course approaches marketing as an **integrated** set of tasks and functions, built on a solid set of foundations. Marketing functions are not presented as independent activities, but as a set of skills and knowledge that is combined with economics, finance, and career planning to create strategic plans. Students learn about the various functions of marketing, but also discover how each function fits with the others. This is marketing in the real world – integrated, strategic, and always changing. There is a nominal consumable cost. This course involves the following:

- DECA Prep Case Studies and Competitive Event Activities
- Entrepreneurship
- Projects
- Internet
- Cross-Curricular Links
- Business Plans
- Real-World Applications
- Technology
- Ethics

Computer Course Listings

COMPUTER APPLICATIONS A

Grades 9-12

Prerequisite: A grade of “C” or better in Business Analysis or a keyboarding course.

The purpose of Computer Applications A is to advance student skills in the areas of Word, Excel, Access, Power Point, Desktop Publishing, and Internet research. Students will have the opportunity to achieve MOS/MOUS Certification at the **Proficiency** level using Office 2000/OfficeXp. There is a nominal consumable cost.

COMPUTER APPLICATIONS B

Grades 9-12

Prerequisite: A grade of “C” or better in Computer Applications B.

The purpose of Computer Applications B is to further advance student skills in the areas of Word, Excel, Access, Power Point, Desktop Publishing, and Internet research. Students will have the opportunity to achieve MOS/MOUS Certification at the **Expert** level using Office 2000/OfficeXP. There is a nominal consumable cost.

COMPUTER PROGRAMMING A

Grades 9-12

Prerequisite: A grade of “C” or better in Business Analysis or a keyboarding course and Algebra B (or its equivalent).

This course is based on the belief that students should master the basics of C++ before learning about object-orientated programming. The course builds a strong foundation of structured programming before introducing students to the concept of object-oriented programming. After object-oriented programming is introduced, students will use ready-made classes to simplify work with strings, arrays, stacks, and queues. Students will complete various hands-on exercises that will help in the understanding of programming.

Students will complete realistic programs and interdisciplinary projects. There is a nominal consumable cost.

COMPUTER PROGRAMMING B

Grades 9-12

Prerequisite: A grade of "C" or better in Computer Programming A.

This is a continuation course of Computer Programming A. Students will develop more in-depth computer programs, such as computer games. There is a nominal consumable cost.

DIGITAL PHOTOGRAPHY A

Grades 9-12

Prerequisite: None.

This course fulfills the UC/CSU Fine Arts requirements

This is an introductory Digital Photography course with an emphasis on using the Digital SLR camera and Digital Technology. The course covers concepts in the history of photography, photocomposition, manipulating images using Adobe Photoshop and photographic printing. Students will apply Adobe Photoshop techniques learned through class instruction to their digital photographs. Students will also learn basic web design techniques to create a digital portfolio website of their photos for publishing on the Internet. There is a nominal consumable cost.

DIGITAL PHOTOGRAPHY B

Grades 9-12

Prerequisite: A grade of "C" or better in Digital Photography A.

This course fulfills the UC/CSU Fine Arts requirements

This is the second course in the Digital Photography A/B sequence. This course will explore advanced concepts in digital photography that builds on the photo concepts that were learned in Digital Photography A. Students will learn more advanced Photoshop techniques in the classroom, and then apply those techniques to their Digital Photographs. Photo B students will have the opportunity to check out a camera and shoot images at school/community events (sports, rallies, dances, etc). Students will improve upon their web design techniques and continue building/publishing their digital portfolio on the Internet. There is a nominal consumable cost.

WEB DESIGN A/B

Grades 9-12

Prerequisite: A grade of "C" or better in Business Analysis or a keyboarding course.

Course may be taken up to four times.

The major emphasis of this course is for the student to become proficient in the creating and updating of web sites for the Internet. The students will have an active role in designing and maintaining personal, as well as, school-related web pages throughout the course. Related topics include Graphic design (Adobe Photoshop, Macromedia Fireworks) and web animations (Macromedia Flash & Dreamweaver). First semester is an introductory web design course, Semesters 2-4 focus on advanced web design techniques and the maintenance of Saugus High Schools web sites (SHS site, Saugus Sports, teacher web pages). There is a nominal consumable cost.

ENGLISH

40 Credits Required

THE FRESHMAN PROGRAM - 9TH

ENGLISH 9A/B

The English course for freshmen is a literature-based curriculum. The course presents six genres of literature, with emphases on the technical components of literature as well as on values-centered meaning. All students will become familiar with the process of writing through their own compositions, which are based on the experiences presented in the literature and in life. The conventions of usage and grammar, skills in listening and speaking, and vocabulary growth will also be emphasized.

ENGLISH 9A/B (cp) with parallel English 9 Lab (elective)

Along with being enrolled in a regular English 9 class, the student will be enrolled in a parallel English 9 class to learn reading strategies to help the student gain confidence in comprehension, vocabulary skills, and inference in a parallel English 9 lab. Composition skills are also emphasized through writing and direct teaching of mechanics and grammar. *Placement requirements will be determined by the English Department. Students who maintain a B- grade may have the option of dropping the parallel lab class for another elective.*

ENGLISH 9 HONORS A/B

Prerequisite: 8th Grade Enriched English, also see page 14 - English Placement
Placement in an advanced class assumes an ability and interest in excess of the average student's. This class will give the student an intensive examination of grammar, paragraph and essay writing, vocabulary, and reading with writing assignments about that reading. The student should be able to progress at the "above average" level of cognition, comprehensions, and cohesion regarding reading and writing. Placement requirements will be determined by the English Department. *Students must maintain a C- grade or the approval from the teacher to remain in the class.*

THE SOPHOMORE PROGRAM - 10TH

ENGLISH 10 LAB A/B

English (Reading) Lab 10A/B is a class for students who need extra help with both reading and composition skills. In English (Reading) Lab 10 A/B the student will encounter reading assignments to help him/her gain confidence in comprehension, vocabulary, skills, and inference. Composition skills are also emphasized through writing assignments based on both literature and life. All students are helped to recognize the use of conventions of writing through direct teaching of mechanics and grammar. Listening and speaking skills are also introduced.

ENGLISH 10A/B

The English course for sophomores is a literature-based curriculum. The course presents six genres of literature in more depth than in the genres presented to the freshmen. There will be emphases in the course on the technical components of literature as well as on values-centered meaning. All students will become more familiar with the process of writing through their own compositions, which are based on the experiences presented in the literature and in life. The conventions of usage and grammar, skills in listening and speaking, and vocabulary growth will also be emphasized.

ENGLISH 10 HONORS A/B

These courses have been specifically designed for the college preparatory student. In addition to providing a sound background in the historical development of American Literature, they also provide an intensive, sequential study of grammar and composition. Students will have the opportunity to learn more about library research, how to write formal papers, and how to increase their vocabulary. Students will do independent reading during the course and share their reactions with the class.

LITERARY MAGAZINE

Grades 10-12

Prerequisite: Approval of instructor.

The major emphases in this course are the study of the arts and the application of advanced writing techniques in both formal and creative composition. A strong writing background is required; previous exposure to/involvement in art is encouraged. Major areas covered include classic and modern writers (wide genre base), art, literary theory, philosophy and phonology, all presented as relevant resources for the aspiring student writer/artist. Student application is extensive and varied, with two formal essays and major creative projects in any two of the following genres: fiction, poetry, drama, art/photography, desktop publishing and journalism. In addition, all students submit, edit, design, advertise and market creative work in the production of the school literary magazine, The Centinel. Students repeating the course follow the same curriculum and continue to explore their own artistic expression (with new individual projects), and typically assume a leadership role (editor) in the production of the literary magazine. This course may be taken four times for credit, but only one course will be applied toward meeting English requirements.

CREATIVE WRITING

Grades 10-12

Creative writing offers young writers, poets, and storytellers an opportunity to exhibit their talents to each other, gain experience in description, story form, and drama, and have their work evaluated by their peers and by the instructor.

THE JUNIOR/SENIOR PROGRAM-11/12TH

ENGLISH 11/12 LAB A/B

Grades 11-12

In these courses, students will continue to develop their reading and writing skills, which they worked on last year. Continued emphasis will be placed on reading material geared to improving understanding of what has been read and one's ability to write about it. Because these classes will be the last English courses for the seniors, particular stress will be placed on encountering the everyday world as an adult. These courses are open to juniors and seniors who continue to need language instruction at the remedial level.

AMERICAN LITERATURE A/B**Grade 11**

In this course, students will explore the fascinating world of American Literature. By means of lecture, discussion, and readings, they will discover the changing patterns of American thought from the Nation's founding to today. Students will meet new authors and perhaps get reacquainted with those they have previously read. They will continue to develop their composition skills and to build their vocabulary.

ENGLISH LANGUAGE AND COMPOSITION AP**Grade 11**

This junior level course is designed to train students to become skilled readers of prose written in a variety of historical periods, academic disciplines, and rhetorical contexts. Using American Literature as its focus, the course gives students the practice and helpful criticism necessary to become flexible writers who can compose in a variety of modes for a variety of purposes. All writing assignments (expository, analytical, and argumentative) in the course contribute to making students more mature writers, and these writing assignments allow the student to see the connections between reading and writing prose of many kinds. Upon culmination of course, students will be prepared not only for the AP English Language and Composition exam, but they also will be prepared for the type of reading and writing that is required in courses at the college level.

SCIENCE FICTION**Grade 12**

Although the setting for science fiction is usually the world of tomorrow, the problems it deals with are often those of today. Students will continue to work to improve their writing skills, grammar, spelling, vocabulary, etc.

RELEVANCY**Grade 12**

This class will give students the opportunity to read novels and short stories, which most teenagers find interesting and relevant to them. Students will have the chance to talk about what they have read with the class and share their ideas. Students will also work on vocabulary and writing skills.

MYTHOLOGY AND FOLKLORE**Grade 12**

This course is designed to present a picture of how myths and legends have enriched the lives of men since the beginning of time, and how they illustrate man's attempts to explain and understand his origin, his world, and his existence. It will examine the cultures and human values of different countries and different times and come to an understanding of the basic similarities, which exist among mankind in each peoples' attempt to define and understand their relation to the universe.

COLLEGE PREP GRAMMAR (CPEG)**Grade 12**

College Preparatory English Grammar (CPEG) is an advanced college preparatory course that is an intense study of the English language system and is a recommended prerequisite for Advanced Composition. Grammar units include an in-depth look at the parts of speech, the parts of a sentence, phrases, clauses and usage, and how each of these units of grammar contributes to the writing of sentences, paragraphs and essays. Additionally, students will study the progression of the English language from the time of language development in humans up to Modern English and how each of these stages have influenced the language we use today. Students will look at historical texts such as *Beowulf*, *Canterbury Tales*, and excerpts from Shakespeare in order to analyze language

(Advanced), CST (Proficient), writing level of at least two, and a minimum core G.P.A. of 2.00. English Learners may continue their course work at the secondary level until their 22nd birthday. Every student must complete 40 credits in English, and ELD courses are applied in meeting graduation requirements in English. Accrued ELD credits for two-hour daily instruction beyond this graduation requirement will fulfill elective credits.

COURSE SEQUENCE

ELA I A/B (two hours of instruction daily)

Credits 10-80

1 Semester – 4 years

English Learners at the **Beginning Level** (CELDT) of English language proficiency are placed into ELA 1 (English Language Acquisition) for one or more semesters. Students progress from having no receptive (listening/reading), or productive (speaking/writing) English skills, to possessing a basic use of English in communicating basic needs and social convention. Students assessed on the CELDT are at the BEGINNING level, and on the CST, they usually range from Far Below Basic through Below Basic.

ELA II A/B (two hours of instruction daily)

Credits 10 -080

1 semester – 4 years

Prerequisites: Demonstration of English language proficiency approaching this level based upon assessments and teacher recommendation.

English Learners at the **Early Intermediate Level** (CELDT) of English language proficiency response with increasing ease to more varied communication tasks with learned material. Students at this stage of English acquisition are demonstrating language proficiency and reading comprehension on the Language Arts portion of the CST. They usually score in the Below Basic category.

ELA III A/B (two hours of instruction daily)

Credits 10 - 80

1 Semester – 4 years

Prerequisites: Demonstration of English language proficiency approaching this level based upon assessments and teacher recommendation.

English Learners at the **Intermediate Level** (CELDT) of English language proficiency begin to refashion learned material to meet their immediate communication and learning needs. Students at this stage of English acquisition are demonstrating language proficiency and reading comprehension on the Language Arts portion of the CST. They usually score in the Below Basic through Basic categories.

FINE ARTS

10 Credits required **OR** 5 Credits with one year of a world language

ART 1 A/B

Grades 9-12

Prerequisite to Art 1B: "C" grade or better in Art 1A or consent of instructor.

This course is an introduction to the visual arts including art concepts, techniques, art media and art history. Through a variety of studio projects, students will be introduced to basic drawing skills, perspective drawing, color theory and more. There is a nominal materials fee.

2D ART A/B

Grades 10-12

Prerequisite: "C" grade or better in Art 1B or consent of instructor.

This intermediate course builds on knowledge gained from Art 1A and 1B. Student will use a wide range of art mediums including: acrylic painting on canvas, watercolors, drawing, pastels and more. A sketchbook will be kept. Contemporary artists will be studied and current events in the arts will be discussed. There is a nominal materials fee.

3D ART A/B

Grades 10-12

Prerequisite: Completion of Ceramics 1A/B or Art 1A/B

Students in this course will create and produce a variety of three dimensional art projects at an introductory level. This is an intermediate level art course and utilizes a diversity of mediums. 3D Art A/B will emphasize standards based instruction and the elements of design.. There is a nominal materials fee.

AP STUDIO ART 2-D Design 1A/B

Grades 10-12

Prerequisite: Portfolio review, instructor approval, and preferably 2 years of art

This AP Studio Art 2-D Design course will address a very broad interpretation of two-dimensional design issues that will involve purposeful decision-making about how to use the elements and principles of art in an integrative way. The student will expand visual communication through the exploration of design processes, composition, and aesthetic concepts, and develop mastery in concept, composition and execution of ideas.

AP 3-D DESIGN 1A/B

Grades 10-12

Prerequisite: Portfolio review, instructor approval, and preferably 2 years of art

This AP Studio Art 3-D Design course will address a very broad interpretation of three-dimensional design issues that will involve purposeful decision-making about how to use the elements and principles of art as they relate to depth and space. The student will demonstrate their understanding that the principles of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, and figure/ground relationship) can be articulated through the visual elements (mass/ volume, color/light, form, plane, line, and texture.) The student will develop and demonstrate mastery in concept, composition and execution of ideas.

AP STUDIO ART 2-D Drawing 1A/B**Grades 10-12**

Prerequisite: Portfolio review, instructor approval, and preferably 2 years of Art.

This AP Studio Art Drawing course will address a very broad interpretation of drawing issues and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth are drawing issues that can be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. Abstract, observational, and inventive works may demonstrate drawing competence. The range of marks used to make drawings, the arrangement of those marks, and the materials used to make the marks are endless. The student will expand visual communication through the exploration of design processes, composition, and aesthetic concepts, and develop mastery in concept, composition and execution of ideas. Photography, videotapes, digital imaging, photocopies of work, and three-dimensional work may NOT be submitted for the Drawing Portfolio.

ART HISTORY**Grades 9-12**

This class is designed to provide the same benefits to high school students as an introductory college course in art history: an understanding and knowledge of architecture, sculpture, painting and other art forms within diverse historical and cultural contexts. Students examine and analyze major forms of artistic expression from the past to the present from a variety of cultures.

AP ART HISTORY A/B**Grades 9-12**

This class is designed to provide the same benefits to high school students as an introductory college course in art history: an understanding and knowledge of architecture, sculpture, painting and other art forms within diverse historical and cultural contexts. Students examine and analyze major forms of artistic expression from the past to the present from a variety of cultures. Many colleges and universities offer advanced placement and/or credit to a student who performs successfully on the AP Art History Exam.

CERAMICS I A/B**Grades 9-12**

Prerequisite: For Ceramics 1B a "C" grade or higher in Ceramics 1A.

This course is designed for those students who would like to work with clay. Hand building and wheel throwing techniques will be taught. A research project will also be required. There is a nominal materials fee.

MUSIC APPRECIATION A/B**Grades 9 -12**

This course is designed to improve students' understanding and appreciation of music. Student will examine and analyze various styles and genres from the past to the present from a variety of cultures. Involving students in processes that reveal the complexities of music encourages them to discern each musical example from a specific viewpoint. Through multiple experiences, students accumulate an understanding of the art itself. Focus is on recognizing musical characteristics, acquiring knowledge about music and developing musical appreciation through understanding. A research project will be required. *UC Approved.*

**MARCHING BAND (FALL SEMESTER)
CONCERT BAND (SPRING SEMESTER)**

Grades 9-12

(May receive P.E. credits in the Fall semester)

Prerequisite: Audition and consent of instructor.

This course stresses improvement of instrumental and performance techniques. The first semester deals primarily with marching band techniques. The remainder of the year emphasizes exposure to concert band music of all styles and periods. The band plays for campus functions, half-time shows, concerts, and may represent the school at music festivals. Attendance at all performances is mandatory.

JAZZ ENSEMBLE (ADVANCED)

Grades 9-12

Prerequisite: Audition and consent of instructor.

This group develops out of the Marching and Concert Bands. The prerequisite includes membership in Marching and Concert Bands. Members of the group are admitted with the consent of the instructor. Emphasis is placed on the areas of music theory, band arranging, and exploration of the jazz band sounds of the present day. Attendance at all performances is mandatory.

PERCUSSION ENSEMBLE

Grades 9-12

This one semester introductory course is open to all students. Fundamental technique and musicianship skills are stressed in the five main areas of percussion: snare drum, mallets, and timpani, drum-set and auxiliary. The course is designed to teach the principles of musical structure through percussion repertoire and ensemble playing as well as develop an enjoyment of music. The skills learned will encourage involvement with the community; improve technical and musical skills and better ensemble technique. There is a nominal materials fee.

MIXED CHORUS A/B

Grades 9-12

This is a class designed for the beginning singer. The class will teach students how to use their singing voice, with emphasis on proper tone, posture and breathing. Students will learn to sing different style of music and will sing in different languages. The music will be unison and two part arrangements. The class is open to all with no audition or signature from the Director. This class is for both males and females. A 2.0 GPA must be maintained in order to perform. *Completion of this course fulfills the UC/CSU Fine Arts requirements.*

CONCERT CHOIR A/B

Grades 10-12

Prerequisites: Previous choral experience and an audition by the Director.

This is an advanced ensemble for males and females. Highly advanced music is performed by this group, both accompanied and a cappella. Students will sing music of many genres, languages and periods in history with particular focus on classical, ethnic and modern art songs. The students perform extensively throughout the year at festivals, concerts and in the community. Advanced music theory will be covered in this class. Students must have extensive choral experience and have proper vocal technique in order to audition. Concert attire is required for the class. Students tour both in the fall and spring. This is a year-long course. A 2.0 GPA must be maintained in order to perform. The Director's signature is required for registration. *Completion of this course fulfills the UC/CSU Fine Arts requirements.*

SHOW CHOIR “Blue Heat”**Grades 9-12**

Prerequisite: A singing and dancing audition is required as well as the Director’s signature for registration.

This choir is a performing group where students will learn the basics of show choir presentation, which includes ear-training, sight-reading, correct vocal production and dance skills. Previous choral experience is necessary; previous dancing experience is preferred. There will be weekly after school rehearsals and a 2.0 GPA must be maintained in order to perform. *Completion of this course fulfills the UC/CSU Fine Arts requirements.*

SMALL VOCAL ENSEMBLE (Vocal Jazz)**Grades 9-12**

Prerequisite: A vocal audition is required as well as the Director’s signature for registration.

This is an advanced ensemble. Students in the ensemble are expected to be familiar with choral rehearsal techniques and basic music fundamentals. Music for this group will focus on Jazz styles from Dixieland to the Modern Era. Students will perform at festivals and concerts in the Fall and Spring. A 2.0 GPA must be maintained in order to perform. *Completion of this course fulfills the UC/CSU Fine Arts requirements.*

WOMEN’S CHAMBER ENSEMBLE**Grades 10-12**

Prerequisite: A vocal audition is required.

This is an intermediate level class for ladies. Previous choral experience is preferred and students must audition for the Director. Students may enter the class at the beginning of the school year or at the semester. Music of various genres, languages and periods in history will be performed. Emphasis is on vocal development and style with focus on proper vocal production, breathing and posture. Music theory will be included in the curriculum. Students perform standard, classical repertoire as well as pop music and modern art songs. Students perform at concerts, festivals and in the community. The ladies go on tour in the spring. A concert dress is required for the class. A 2.0 GPA must be maintained in order to perform. *Completion of this course fulfills the UC/CSU Fine Arts requirements.*

THEATER ARTS IA/B**Grades 10-12**

Prerequisite: "C" in Theater Arts IA or consent of the instructor. Students must have maintained a “B” average in all previous drama work.

This course introduces students to the field of Theater Arts. It will enable students to grow in self-confidence, develop theater skills and understand the function of drama as a communicative art. This will be done through participation in theater activities, such as characterizations, improvisations, impressions, group scenes, etc.

THEATER ARTS II A/B**Grades 10 – 12**

Prerequisite: "C" in Theater Arts IA/B or consent of the instructor. Students must have maintained a “B” average in all previous drama work.

This class is for students who were outstanding in Theater Arts IA or are recommended by the teacher. Students will fulfill state standards by creating, producing and performing original in-class productions for area elementary schools. Shows will take place in the MPR during class time. Students must demonstrate a high level of talent and commitment and be role models for the young audiences who will be attending.

THEATER ARTS IIIA/B –PRODUCTION CLASS

Grades 10-12

Prerequisite: Consent of instructor.

This is a specialized course, which allows students to participate in the production of a major play. Students will participate in a major play several times a year. Students will participate in and experience the entire production process, from casting to curtain call.

VIDEO PRODUCTION (SEE INDUSTRIAL ARTS)

Video Production may be used to fulfill either the fine arts or practical arts graduation requirement.

DIGITAL PHOTOGRAPHY (SEE BUSINESS)

YEARBOOK

5/30 Credits

Prerequisite: Permission of the counselor and consent of instructor.

This class is responsible for the publication of the school yearbook. Students enrolling are expected to develop proficiency in skills such as copy writing, design, layout, and public relations. Each student is fully responsible for a portion of the yearbook. An ability to write and spell is required. Students must spend time outside of class working on all phases of yearbook production, including the sale of ads. Experienced photographers are also needed. They must be able to take pictures, develop film, and produce good quality glossy photos.

INDUSTRIAL ARTS

5 Practical Arts Credits required

Consumable shop costs are required in many of the following classes each semester.

DRAFTING I A & B

Prerequisite: for 1A – A strong Math background is recommended

Prerequisite: for 1B – A grade of “C” or better in 1A and the permission of the instructor.

In Drafting I student learn the concepts of engineering and design. The course work entails sketching with pencils and the use of the Inventor software for CADD. In Drafting IA the fundamentals of drafting are stressed; such as dimensioning and drawing placement. Drafting 1B stresses the design process and the incorporation of the skills learned in the first semester.

DRAFTING II, III, IV

Prerequisite: A grade of “C” or better in IA/B and the permission of the instructor.

These classes focus in on the student’s individual desire to explore architectural drafting and design or advanced mechanical drafting and design. Architectural Students learn through the use of the Revit: Building Information Management software program. Those students pursuing a desire to learn engineering will continue to use Inventor.

INTRODUCTION TO WOODWORKING (Formerly Wood 1A/B) Grades 9-12
Students will build a variety of projects starting with hand tools and finish with machines. There is a required shop fee to cover expenses for materials each semester.

WOOD 1A

Students will build their first project using woodworking hand tools. Students will learn basic woodworking processes and how to use the hand tools safely and efficiently. Emphasis will be placed on safety, craftsmanship, planning, design and work ethic. Students will demonstrate the ability to read plans and build their last project using machine woodworking tools. This is a non-traditional classroom environment, best for mature students that can work independently or in small groups and possess self-control.

WOOD 1B – *Prerequisite: A grade of “C” or better in Wood 1A and permission of the instructor*

Students will continue and expand their machine woodworking skills. Students will continue to develop planning and design skills by designing scale working drawings for their machine woodworking projects. Students will be required to build a small cabinet or table. Projects should have multiple components, such as doors and drawers. Emphasis will be placed on safety, craftsmanship, planning, design and work ethic. This is a non-traditional classroom environment, best for mature students that can work independently or in small groups and possess self-control. The pace for this class is faster and expectations higher than in the Wood 1A class.

INTERMEDIATE WOODWORKING (Formerly Wood 2A/B) Grades 10-12

Prerequisite: A grade of “C” or better in Wood 1B and permission of the instructor.

Students will continue and expand their machine woodworking skills. Students will develop scale working drawings for their machine woodworking projects. Students will design project appropriate to their skill level. Projects should have multiple components, such as doors and drawers. The use of jigs and fixtures will be introduced as well as concepts of mass production. Emphasis will be placed on safety, craftsmanship, planning, design and work ethic. There is an option to learn Carpentry Fundamentals. Students will build a “stick” model of residential construction. Students will demonstrate construction trade skills on a full sized model. This is a non-traditional classroom environment, best for mature students that can work independently or in small groups, possess self-control and are self motivated.

ADVANCED WORKWORKING (Formerly Wood 3A/B) Grades 11-12

Prerequisite: A grade of “C” or better in Wood 2B and permission of the instructor.

Students will continue and expand their machine and hand woodworking skills. Students will develop scale working drawings for their machine woodworking projects. Students will design projects appropriate to their skill level. Projects should have multiple components, such as doors and drawers. Emphasis will be on raised panel doors and panel construction in cabinet case construction. The use of jigs and fixtures will be continued as well as mass production of parts. Emphasis will be placed on safety, craftsmanship, planning, design and work ethic. This is a non-traditional classroom environment, best for mature students that can work independently or in small groups, possess self-control and are self motivated.

GRAPHIC ARTS I A/B**Grades 9-12**

Prerequisites: For IB -A grade of "C" or better in Graphic Arts IA and permission of the instructor.

This class should really be called "Graphic Design". The students learn the process of designing Tee-shirts through the use of the elements and principles of design. The artwork is produced on the computer using PhotoShop, Illustrator, and InDesign. This class emphasizes the use of spot colors and traps.

GRAPHIC ARTS II A/B**Grades 10-12**

Prerequisites: For IIA - A grade of "C" or better in Graphic Arts I A/B and the permission of the instructor. Prerequisite: For IIB - A grade of "C" or better in IIA and the permission of the instructor.

This class continues the exploration of the design process through the production of artwork for Tee-shirts. Again the artwork is produced on the computer. The use of Illustrator software is emphasized. The production of process color shirts is the focus of this class.

VIDEO PRODUCTION I A/B**Grades 9-12**

Prerequisite: A grade of "C" or better to go on to IB.

Introduction to Video Production 1A is an elective course that offers students hands-on experiences with video equipment to create various video projects. Equipment being used includes digital video cameras, iMac, power mac, iMovie 2.0 editing software, microphones, and tripods. This course will emphasize how the media plays a part in our everyday life and how the student can take that knowledge and apply it to everyday life. Emphasis will be placed on the hands-on experience of producing videos from start finish.

VIDEO PRODUCTION II A/B**Grades 10-12**

Prerequisite: A grade of "C" or better in Video Production IA/B and the instructor's approval.

Video Production IIA and IIB are upper division courses designed for the motivated student who wants to improve their skill as a film maker. Special emphasis will be on camera technique and technical skills in digital editing. Like the previous video production classes, this advanced course will be hands on and will offer students experience with high-end video cameras and industry standard digital editing software. IIA will introduce the student to the newest version of Apple's Final Cut Studio 6.0 suite (FCP, Motion, Live type, and Soundtrack), and provide them access to Canon GL2 and Panasonic DVX 100B digital cameras. Special attention will be paid to the nuances of film (e.g. cutting for dialog, camera control, soundtrack, scheduling and time management and promotion). The purpose of IIA/IIB is to teach the student how to express themselves through the medium of film and to appreciate the film making process from start to finish.

VIDEO PRODUCTION IS (INDEPENDENT STUDY)**Grades 11-12**

Prerequisite: Approval of the instructor must be granted prior to the student registering for this course.

This level of video production gives the students several avenues of choice. Some may wish to become lab assistants, giving help to students enrolled in the regular Video I or II courses. To do this, the students will have to display an ability to handle both the video equipment in the lab and the temperaments of their peers. This co-operative learning environment is a perfect setting for those students who plan to continue into the industry of video production. Other avenues which the students may pursue include video journalism, porta-cam operator, video equipment servicing and repair, effects video editor, and directing video programs. Because of the "daily" demands, which will be placed on the independent study video student, regular attendance will be extremely important and will have significant value in the student's final grade.

TV PRODUCTION – NEWS**Grades 9-12**

Prerequisite: Completion of Video Production IA with a "B" or better and permission from the instructor

This class will be responsible for producing a daily morning announcement news show that will be seen by the Saugus High School community. Television production is a time sensitive activity and demands a working knowledge start-of-the-art electronics. It also requires that each student work in a cooperative environment and show leadership skills in managing personalities and talents of all students while working on our production. This course is an introduction to television studio and field production. The course will acquaint you with the technical and aesthetic concepts involved in successful studio and field production. You will develop your skills by writing, filming, and editing an actual daily news program as well as production of informational public service announcements (clips or PSA's).

MOVIE MAKING IA/IB**Grades 11-12**

Prerequisite: Video IA/IB, IIA/IIB and teacher approval.

This course will provide students with the skills and technical knowledge necessary to produce a thirty-minute short film. Students will go through every aspect of movie production from development, pre-production, production, post production, and promoting activities. Students will be working in class as well as on location, and are expected to be available for travel around the Santa Clarita valley. This course is repeatable for up to 20 credits (i.e. a student may take IA and IB in their junior year and IIA and IIB in their senior year).

MOVIE MAKING IIA/IIB**Grades 12**

Prerequisite: Video IA/IB, IIA/IIB, Movie Making IA/IB and teacher approval.

This course will provide students with the skills and technical knowledge necessary to produce a thirty-minute short film. Students will go through every aspect of movie production from development, pre-production, production, post production, and promoting activities. Students will be working in class as well as on location, and are expected to be available for travel around the Santa Clarita Valley.

MATHEMATICS

20 Credits required.

A “C-” grade or better is required in order to continue to the next semester in each class/course.

ALGEBRA A/B/C

Grades 9-12

Prerequisite: 9th graders: 3.0 or better in Alg. 8 and recommendation of junior high instructor. 10-12th grade: 2.0 or better in Algebra A

Algebra ABC is a course utilizing a formal approach to the development of algebraic skills and concepts. These skills are necessary for students who plan to continue in other advanced college-preparatory course. The class is taught in accordance to the California Standards. Concepts of directed numbers, sets, linear equations and inequality solving and word problem solving are expected to be mastered. Additional concepts will include graphing, systems of equations, quadratic equation solving, algebraic fractions, and word problems. Completing the Algebra A/B/C sequence fulfills the algebra requirements for graduation. The Algebra B/C class is designed for the incoming ninth grade who has already successfully mastered the concepts of Algebra A at the junior high level. *Meets the UC algebra requirement*

ALGEBRA IA/B

Grades 9-12

Prerequisite: Recommendation of junior high instructor.

Algebra 1A/B is two-semester course utilizing a formal approach to the development of algebraic skills and concepts. These skills are necessary for students who plan to continue in other advanced college-preparatory course. The class is taught in accordance to the California Standards. Concepts of directed numbers, sets, linear equations and inequality solving and word problem solving are expected to be mastered. Additional concepts will include graphing, systems of equations, quadratic equation solving, algebraic fractions, and word problems. Completing the Algebra 1A/B sequence fulfills the algebra requirements for graduation. *Meets the UC algebra requirement*

ALGEBRA FINANCIAL WITH TECHNOLOGY A/B (SEE BUSINESS)

GEOMETRY I A/B

Grades 9-12

Prerequisite: 2.0 GPA or better in each course of Algebra IAB or Algebra A/B/C.

This math elective course covers the basic concepts of two and three-dimensional geometry, inductive and deductive reasoning, formal logic, and proof are stressed in the development. Number and algebraic concepts are used extensively throughout the course by exposure to problem-solving skills and processes. An understanding of postulates, theorems, and definitions will be interwoven through all strands of the course. .

Geometry IA/B meets UC geometry requirements.

GEOMETRY I A/B HONORS

Prerequisite: 3.0 GPA in each course of Algebra 1A/1B at the Junior High and teacher recommendation or 4.0 in Algebra 1A/1B or A/B/Cat the high school and teacher recommendation.

This course covers the same *topics* as Geometry 1A/B except that the pace is accelerated and the topics are covered in greater depth. *Meets the UC entrance requirement*

ALGEBRA IIA/B

Prerequisites: 2.0 GPA in Algebra IA/B or Algebra A/B/C

This is an elective course in mathematics expanding on the mathematical content of Algebra IAB. This course teaches to the California standards including linear, quadratic and polynomial functions, logarithmic and exponential functions, inequalities, conics, complex numbers, sequence and series and the Fundamental Counting Principle. Emphasis shall be placed on abstract thinking skills, the function concept, and the algebraic solution of problems in various content areas. *Meets the UC entrance requirements for the third-year math elective*

ALGEBRA II/TRIGONOMETRY A/B HONORS

Prerequisites: Geometry IA/IB Honors with “B” or higher in both course and teacher recommendation or Geometry IAB with “A” both semesters and teacher recommendation.

This course covers the same topics as Algebra IIA/B and the additional topic of trigonometry. The pace is accelerated and the topics are covered in greater depth. The use of a graphing calculator will be incorporated into the topics. *Meets the UC entrance requirements for the third year math elective*

ELEMENTARY STATISTICS

Grades 10-12

5 Credits

Prerequisites: 2.0 GPA or better in Algebra IIA/B, Geometry A/B and recommendation of previous instructor.

This is a one-semester course introducing students to statistics. Students will analyze and learn to use description statistics, probability, discrete probability, distributions and normal probability distributions.

AP STATISTICS

Grades 11-12

5/5 Credits

Prerequisites: Completion of Algebra II or Pre-Calculus and instructor recommendation.

This is a one-year course in introductory probability and statistics. Students will learn procedures for collecting, organizing and analyzing data. Use of graphing calculators and computers will be required. This course prepares the student to take the Advanced Placement Statistics examination for college credit.

TRIGONOMETRY

Grades 10-12

5/5 Credits

Prerequisite: 2.0 or better in Algebra II A/B, Algebra II Trig A/B or Algebra II Trig Honors A/B and 2.0 GPA in Geometry I A/B.

This one-semester course is an elective. Trigonometry is a comprehensive study of trigonometric functions with emphasis on application. Topics include circular functions and their graphs, polar coordinates, trigonometric identities and formulas, triangle trigonometry, Law of Sines and Law of Cosines.

PRE-CALCULUS A/B**Grades 11-12**

5/5 Credits

Prerequisites: 3.0 GPA or better in Algebra II A/B and 2.0 GPA in Geometry or 2.0 GPA in Algebra II Trig A/B, Honors A/B and the recommendation of the previous instructor.

This course provides a strong preparation for college courses in calculus and abstract algebra. It includes polynomials, functions, inequalities, exponents, logarithms, trigonometry, polar coordinates, complex numbers, vectors, determinants, sequences and series, matrices, probability, and graphing calculator.

PRE-CALCULUS HONORS A/B**Grades 10-12**

Prerequisites: 2.0 GPA in Algebra II Trig Honors A/B or 4.0 GPA in Algebra II and 3.0 GPA in Trigonometry and permission of the instructor.

This course will cover the topics of the Pre-Calculus A/B course plus the additional topics of Limits and Derivatives from the Calculus AB course. Upon completion of this course, students should be ready for AP Calculus BC. Students will pursue the Pre-Calculus concepts at a faster pace to a greater depth, and devote more time to theory than the regular program.

CALCULUS A/B**Grades 11-12**

5/5 Credits

Prerequisites: 2.0 GPA or better in Pre-Calculus A/B or Pre-Calculus Honors A/B and permission of the instructor.

This course is designed for the very capable mathematics student who wishes to study first year calculus concepts prior to college. The course will have the same content as the Calculus AP A/B course, but will be graded using an easier standard.

AP CALCULUS AB A/B**Grades 11-12**

5/5 Credits

Prerequisites: 2.0 GPA or better in Pre-Calculus A/B or Pre-Calculus Honors A/B, permission of the instructor and intent to take the Advanced Placement Calculus AP examination.

Course content will be that suggested by the College Board for the Calculus A/B course plus additional topics. The AP examination is a required part of this course.

AP CALCULUS BC A/B**Grades 11-12**

Prerequisites: 2.0 GPA in Pre-Calculus Honors A/B, permission of the instructor and intent to take the Advanced Placement Calculus examination.

AP Calculus BC is a college level calculus course. It is equivalent to two quarters or semesters of college level Calculus. Students will study the limit concept and develop the theory and skills of the derivatives and integrals. Curve sketching, extreme value problems, areas and volume problems are also covered topics. A major emphasis is placed on problem solving. A graphing calculator is used extensively. Included also is a study of series, polar and parametric equations. This course requires at least an hour of outside work each day: a demanding schedule, but one equivalent to that of a college freshman. Students who pass the AP examination could earn college credit for this course.

PHYSICAL EDUCATION

20 Credits Required

AEROBICS

Grades 11-12 or by special permission

This class is a Physical Education elective that is a balanced combination of rigorous and low to medium impact workouts including stretching, warm up, energetic cardiovascular movements, total body workout and a cool down. This class is designed for those who are serious about wanting to stay in shape, firm up their bodies, or lose weight.

BODY CONDITIONING

Grades 11-12 or by special permission

Body conditioning is a one semester Physical Education elective class for the student who is serious about exercise and physical conditioning. Weight lifting techniques, suspension training, core work outs and cardiovascular conditioning are used for muscle development, physical fitness, and to decrease excess body weight. Students plan and implement a balanced work out regimen and maintain an Exercise Journal in a quad-ruled composition book as part of the course requirement.

GENERAL PE

Grades 9 - 12

This course is a four semester rotation of units in which students will participate in a variety of activities designed to meet the California State Standards for Physical Education while meeting the graduation requirement of completing four semesters of Physical Education. Team sports, individual and dual sports, aquatics, rhythms and dance, combatives, tumbling/gymnastics, the mechanics of movement, and the effects of exercise on the body will be addressed over a four semester period. Classes are fitness-based and students will participate in activities designed to improve flexibility, cardiovascular fitness, muscular strength and endurance, and body composition. Students are to keep a Fitness Journal in a quad-ruled composition book as part of the class requirement.

INTERSCHOLASTIC SPORTS

Grades 9-12

Wm. S. Hart School District provides interscholastic sports in both the fall and spring semester. Open to all members of the student body who have passed a minimum of 20 credits with an overall GPA of 2.0 or better the previous semester. Interscholastic sports offered are:

Fall: Football, cross country, girls' volleyball, boys' and girls' basketball, boys' and girls' soccer, girls' tennis, girls' golf.

Spring: Baseball, softball, boys' volleyball, boys' tennis, track and field, boys' golf, swimming.

FLAGS/BANNERS

Grades 9-12

Prerequisite: Selected by a panel of judges (May of prior year). Meets the Physical Education requirement for graduation

Tall Flags Class provides an opportunity to participate in different activities involving tall flags. These activities first semester include: marching field shows, half-time football shows, parades and rallies. Second semester includes: tall flag competitions, rallies, concerts and other band related activities. Flag Team activities interact with the Saugus High Band as a total unit.

CHEERLEADING**Grades 9-12**

Prerequisite: Selected by a panel of judges. Meets the Physical Education requirement for graduation

The Pep Squad consists of Varsity Song leaders, JV and Frosh Cheerleaders and Yell leaders. Summer school and cheer camp required. Students will learn routines, organize rallies, and design posters to support all interscholastic athletic teams.

DANCE TEAM**Grades 9-12**

5/5 Credits

Prerequisite: Selected by a panel of judges. Meets the Physical Education requirement for graduation

SCIENCE

20 credits required for Graduation

Saugus High School's policy is that all 11th grade students take a 3rd year of science.

BIOLOGY 2 A/B**Grade 9**

Biology 2 is a one-year course to provide high school students with basic concepts in the biological sciences. Topics to be covered are laboratory skills, biological principles, cells, chemistry, evolution, ecology, genetics and human biology.

BIOLOGY A/B**Grade 9**

Prerequisite: 9th Grade - Concurrently enrolled in Algebra B/C or Geometry. If enrolled in Algebra, student should have earned an "A" or "B" grade in 8th grade science.

This course is designed to meet the needs of the average or above average student especially those taking a college preparatory program. This course investigates life. It recognizes the recent advances made in the area of biochemistry and its contribution to the understanding of life processes. The course begins at the molecular level as the thread that informs and unites. Laboratory procedures and related themes are studied.

BIOLOGY HONORS A/B**Grades 9-10**

Prerequisite: Concurrent registration in English Honors and Geometry I with an "A" in 8th grade science or 8th grade science teacher's recommendation.

This honors class will cover the same material as the Biology A class, but requires greater independent study from the student and will go into more depth.

EARTH SCIENCE 2A/B**Grade 10**

This two semester class is designed to provide 10th grade students with the basic concepts of Earth Science. This course will focus on areas of the Earth's changing surface, history, air and water and astronomy. Course content will be taught through written and laboratory activities. *Completion of this course fulfills the physical science graduation requirement.*

CHEMISTRY A/B**Grades 10-12**

Prerequisites: Completion of Biology and Algebra I with a grade of "C" or better plus concurrent enrollment in Geometry or Algebra II.

Chemistry is the science dealing with the structure and composition of materials and the changes in composition, which materials undergo. Problem solving and laboratory experiences are the major activities.

CHEMISTRY HONORS A/B**Grades 10-12**

Prerequisite: Successful completion of Honors Biology with a "B" or better or Biology I with an "A" and concurrent enrollment in the third level of college-prep math.

This course is designed for students who have made a definite commitment to attend college and desire a more thorough introduction to chemistry. A goal of the class is to help students develop a sound method of problem solving.

CHEMISTRY AP A/B**Grades 11-12**

Prerequisites: Completion of Algebra II and Geometry and successful completion of Biology and Chemistry with a grade of "B" or higher or instructor permission.

This advanced placement class will cover more material than the Chemistry A/B class, and will require greater independent study from the student. It is expected that the students will take the AP exam.

ANATOMY AND PHYSIOLOGY**Grades 11-12**

Prerequisite: Biology and Chemistry, or consent of instructor.

This course is designed for those students planning on attending a four-year university directly out of high school. The emphasis is on human physiological processes, and the maintenance of homeostatic mechanisms. Activities include laboratory investigating and dissections, lectures, and diagram IDs. A consumable materials cost will be applied.

ANATOMY AND PHYSIOLOGY HONORS**Grades 11-12**

Prerequisites: Completion of Biology and Chemistry with a grade of "B" or with instructor permission.

This two semester laboratory-based class is designed to prepare students interested in the pre-medical or high-level science fields. This course utilizes a college-level textbook and laboratory manual to emphasize the structure and function of the human body.

Laboratories will include identification, experimentation and dissections. A consumable cost will be applied.

BIOLOGY AP A/B**Grades 11-12**

Prerequisite: Satisfactory completion of Biology A/B and Chemistry classes with a grade of "B" or higher. For 9th graders, concurrent enrollment in H Alg. II/Trig or higher and 8th grade teacher's recommendation.

AP Biology is an introductory college-level course in biology designed for highly motivated and intellectually promising students. Emphasis will be placed on passing the AP Examination in May. For purpose of study, AP Biology is divided into three broad areas: molecules and cells; genetics and evolution; organisms and populations. It is expected that the students will take the AP exam.

PHYSICS A/B**Grades 11-12**

Prerequisites: Completion of one year of high school science and "C" grade or better in Algebra and Geometry.

Physics is a science course for the advanced, college bound student. The main emphasis of the course is on motion, thermodynamics, wave theories of sound and light, electromagnetism and nuclear physics. The lecture material is reinforced by demonstrations and practice solving equations. Other activities such as reading special articles and hands-on experience with a microcomputer may also occur during the course.

PHYSICS AP A/B**Grades 11-12**

Prerequisite: Concurrent enrollment in Honor Algebra II/Trig A/B or higher mathematics class or teacher recommendation.

This is a one-year college level course that provides a broad yet rigorous introduction to physics for those students whose mathematical preparation includes algebra and trigonometry - no calculus is needed. The main areas of study include: mechanics, thermodynamics, electricity, magnetism, waves, optics, and modern physics. The students will complete many experiments, and there will be many demonstrations. It is expected that the students will take the AP exam in May.

ANIMAL VERTEBRATE BIOLOGY**Grades 10-12**

Prerequisite: Completion of two years of high school science.

This one-year course (A/B) will explore the anatomy, physiology, ecology, and evolution of vertebrate animals. A comparative approach will provide students with an appreciation of vertebrate animals in preparation for fields in veterinary medicine, animal husbandry, zoo keeping among others. This lab-based class will provide students hands-on experience working with living and preserved vertebrate animals and animal ecology.

WILDLIFE STUDIES OF SOUTHERN CALIFORNIA **Grades 10-12**

Prerequisite: Having passed 20 credits of high school science or permission of instructor.

Wildlife studies of Southern California will generally cover the wildlife found in Southern California. The geographical area will range from the home of the California Condor in the Los Padres Mountains to the Big Horn Sheep of the Laguna Mountains at the Mexican border. The eastern boundary will be the Colorado River with its desert and the western boundary will be the beaches of the Pacific Ocean. The wildlife will be studied with respect to their habitats, needs, and influence by man. There may be field trips, various speakers, lectures, discussions, and related films.

MARINE STUDIES**Grades 11 -12**

Prerequisite: Completion of Biology and Earth Science/or Chemistry

The first semester of this course covers oceanography, the physical parts of the ocean. These topics include waves, tides, currents, plate tectonics, underwater volcanoes, ocean exploration, ocean water physics and chemistry. The second semester covers Marine Biology, the life in the ocean. Topics include plankton, kelp, invertebrates (sea stars, sponges, clams etc.), sea birds, sea mammals and fishes. The course consists of lecture, labs, activities, and ocean films. *Fulfills the "D" Lab science requirement for the UC/CSU schools.*

MOLECULAR GENETICS/MICROBIOLOGY

Grades 10-12

Microbiology is offered in the fall and Molecular Genetics is offered in the Spring
Prerequisite: Concurrent or completion of Chemistry with a grade of "C" or better

These courses provide an opportunity for the student that is interested in Biology to do basic research in these areas. Molecular genetics is based on the central dogma, which recognizes that RNA copies DNA and DNA produces proteins. It also considers how an organism's ancestry may be traced through DNA evidence and protein analysis.

Microbiology is an introduction into the biology of micro-organisms (bacteria, viruses, parasitic worms, algae, and fungi) and their interaction with humans. These are hands on lab-oriented courses in which the students spend most of their time doing investigations.

AP ENVIRONMENTAL SCIENCE

Prerequisites: Algebra, one year of Biology one year of Chemistry or Earth Science is okay with instructor approval.

This is a one-year college-prep laboratory science course to prepare students to take the AP Environmental Science exam. It is designed be the equivalent of a one-semester introductory college course in environmental science and incorporates many scientific disciplines such as biology, geology, environmental science, environmental action, chemistry and geography. Students will participate in laboratory experiments, field work, data collection and study environmental issues in order to understand the interrelationships of the natural world, identify and analyze environmental problems both natural and man-made, evaluate the relative risks associated with those problems, and examine alternative solutions for resolving and/or preventing them. The topics include: science is a process, energy conversions in ecological processes, the earth as an interconnected system, humans altering natural systems, environmental problems with a cultural and social context, and human survival that depends upon developing practices that will achieve sustainable systems.

SOCIAL STUDIES

30 Credits Required

To meet the graduation requirements students' credits must include: **10 Credits** Modern Civilizations A/B; **10 Credits** U.S. History A/B; **5 Credits** Economics; and **5 Credits** American Government.

MODERN CIVILIZATIONS A/B

Grade 10

The course in Modern Civilizations offers an in-depth study of selected civilizations chosen from the Western and non-Western worlds. Emphasis is given to the study of European culture in the modern period because of its significance to the intellectual, political, and social development of the United States. It is also important for students to study cultures other than European in order for them to perceive the world as an interdependent community made up of cultures that have similarities and differences. The course provides opportunities to compare and contrast Western and non-Western cultures in terms of philosophies, ethical systems, law, languages, literature, religions and the arts. It enables students to become knowledgeable about the historical events that have had an impact on the development of particular cultures and awareness of the contributions of various people. *Required for Graduation*

EUROPEAN HISTORY AP A/B**Grade 10**

This intensive course is designed to prepare students for the AP exam. It is expected that students will take the AP exam. This course fulfills the state/district requirement for a modern world history course, replacing the standard Modern Civilizations class. The course material requires an ability to read, write and think at a level expected of college freshmen. The focus of the class is Europe, 1450 AD to the present.

WORLD GEOGRAPHY**Grades 9-12**

Students will learn about all aspects of geography including some elementary physical elements, extensive cultural features of major areas of the world and the use of maps. The course will emphasize the interactions of man and the environment, both positive and negative. It will also show how geography affected major historical events of the past and how it affects current world problems.

U.S. HISTORY A/B**Grade 11**

The year begins with a review of two themes: the Nation's constitutional framework dividing power between the states and the federal government, and the industrial transformation of the new nation. Students then examine major turning points in American history in the twentieth century. Emphasis is given to the expanding role of the federal government and issues between minority rights and majority power; the emergence of a modern corporate economy; the impact of technology on American society and culture; change in the ethnic composition of American society; the movements toward equal rights for racial minorities and women; and the role of the United States as a major world power. Examination of American culture, education, and the mass media is included in each unit. *Required for Graduation*

U.S. HISTORY AP A/B TEAM**Grade 11**

Advanced Placement U.S. History is a two-semester course preparing students for the mid-May AP American History test. It is expected that students will take the AP exam. Enrollment is open to highly motivated juniors who have performed well in Honors level English and Social Studies courses. Activities include extensive reading, lectures, discussion, research papers, essays, audiovisual presentations, simulations, and other activities to develop critical thinking skills. Students will produce a term paper during the fall semester. Those who pass the AP test receive college level credit acceptable at many colleges and universities. The class will also provide honors level high school credit and meets the U.S. History graduation requirement. Students will need to pick up a textbook and the summer reading assignments at the end of their sophomore year.

**AMERICAN GOVERNMENT AP
AMERICAN GOVERNMENT****Grade 12**

The basic purpose of the course is to help equip students to be productive and effective members of society. The study gives the student a knowledge and understanding of the purposes, organization, and functioning of American government. The content of the course emphasizes how the government has developed, how it is made up, and comparison with forms of government in other nations. Topics covered are: political party structure, voting and civil rights. *Required for Graduation*

**ECONOMICS HONORS
ECONOMICS**

Grade 12

Economics is the study of how limited resources are used to satisfy wants. Economists study how the goods and services demanded get produced and how they are distributed. Economics (Honors) is specifically college preparatory emphasizing the concepts of macro and microeconomics using the U.S. economy as a model. Economics deals with similar material but includes some study of personal (consumer) economics.

Required for Graduation

AP WORLD HISTORY

Grade 12

This course is focused on developing a greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. Focused primarily on the past thousand years, the course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage prior to 1000 C.E. The course is divided into five chronological periods: 1000-1450, 1450-1750, 1750-1914, and 1914-.

SOCIOLOGY

Grades 9-12

Sociology is the scientific study of people in groups and how they interact and form relationships in their environment. Topics studied include the socialization process, roles and status, and current developments in American society. *May be taken to fulfill a UC/CSU elective requirement*

PSYCHOLOGY

Grades 11-12

This course is an introduction to the general field of psychology. Its purpose is to provide the student with a basic understanding of the principles and dynamics of behaving; reasons for different types of behavior (motivation); the interrelation of heredity and environment; and the processes of development and maturing, perception and learning, thinking and intelligence. NOTE: Psychology is not a class in personal adjustment. *May be taken to fulfill a UC/CSU elective requirement*

AP HUMAN GEOGRAPHY

Grades 9-12

This course allows students to discover the spatial relationships between people, events, and countries in historical and present times. Students will develop and use cartographic skills, map reading, and interpretation of graphs. Current issues of boundary disputes, stateless nations, supranational organizations, and international economics are seen from the geographic point of view. Students will prepare for the AP human Geography test given each May.

CONSTITUTIONAL LAW

Grades 9-12

This academic elective is especially suited for students in the Law Enforcement/Fire Science career pathway. The course includes an examination of the Constitution, the history of the Supreme Court, and a study of controversial laws and court rulings.

SPORTS IN AMERICAN CULTURE**Grades 10 - 12**

Sports History and American Culture is a one semester elective offered through the Social Studies Department. This course will cover the American history of sports from the discovery of America through contemporary times. Sports and their affect on cultures, ethnicity, and race will be covered as well. Individual sports history will be covered as well as present day topics regarding the world of sports and its direct effect on the United States.

CONTEMPORARY AMERICAN PROBLEMS**Grades 9 -12**

This is a one semester course. Course content includes a study of critical thinking (including propaganda techniques, logical fallacies, problem solving methods, and value analysis) and a flexible content area based in part on current American problems and issues (including civil rights, poverty, economics, population, pollution, foreign policy, crime, national security, healthcare, education, etc.).

WORLD LANGUAGE

Not required for graduation. Two years required by UC, CSU, and many private colleges for admission directly out of high school.

There may be a consumable materials cost for language workbooks .

CHINESE I A/B

Prerequisite: Grade of "B" or better in one semester of 8th grade regular English (for freshmen only).

An introductory course centering on the sound system and the practical use of the Chinese language. Speaking, reading and writing of Chinese characters are introduced in the context of greetings, describing family, the classroom environment and daily routines, Traditional Chinese culture is presented as an integral part of the course.

CHINESE II A/B

Prerequisite: Completion of Chinese I with a "C" grade or better.

A second year course centering on using Chinese in real life situations including shopping, going to a restaurant, asking for directions, seeing a doctor, going to school, hobbies etc. Course required for application to the China Exchange Program.

CHINESE III A/B

Prerequisite: Completion of Chinese II with a "C" grade or better.

The third year course centering on using Chinese in real life situations, in addition to cultural topics including festivals, holiday vacations, and Chinese currency. Students enrolled in course may apply to the China Exchange Program with sister school in Xi'an, China.

CHINESE IV/AP CHINESE LANGUAGE AND CULTURE

Prerequisite: Completion of Chinese III with a "C" grade or better.

The fourth year course concentrating on refining and further developing students' abilities in Chinese listening, speaking, reading and writing using both formal and informal language. This course also introduces students to Chinese literature and history. Text used includes excerpts from Confucius, SunTzu, and poetry from the Tang and Song Dynasties. Students enrolled in course may apply for the Chinese Exchange Program.

FRENCH I A/B

Prerequisite: Grade of "B" or better in one semester of 8th grade regular English (for freshmen only).

This class emphasizes learning to understand spoken French and to express oneself using simple vocabulary dealing with the family, home, clothing, food, weather and other subjects relating to daily life. Students will also explore the customs and life-styles of the French-speaking world.

FRENCH II A/B

Prerequisite: Completion of French I with a "C" grade or better.

In this class, listening and speaking skills are strengthened as reading and writing abilities continue to develop. A special emphasis is given to a more detailed study of the grammatical elements of French.

FRENCH III A/B

Prerequisite: Completion of French II with a "C" or better and/or teacher permission.

This course consists of practice in speaking, reading and writing French with increased emphases on reading of short stories, individual written expression and vocabulary building. At this level the student will truly begin to be comfortable speaking French!

FRENCH IV A/B

FRENCH IV AP A/B

Prerequisite: Completion of French III with a "C" grade and/or teacher permission.

This course provides a thorough and systematic review of all grammar points taught in French I-III and concentrates on individual needs. Excerpts from French literature are read and discussed in French. Students enrolled in AP (rather than French IV) prepare for the AP test and it is expected that they will take the exam.

SPANISH I A/B

Prerequisite: Grade of "B" or better in one semester of 8th grade regular English (for freshmen only).

This beginning course relies heavily on an audio-lingual (hearing-speaking) approach. The areas of emphasis are on an understanding of the spoken language, correct pronunciation and intonation, development of correct speech patterns, simple dialogues and narratives, reading and writing of Spanish already heard, and short dictations. Students will learn to tell the time of day and use time expressions, be able to identify classroom objects, be able to use simple vocabulary covering the family and home, clothing, food, and entertainment - all in Spanish!

SPANISH II A/B

Prerequisite: Completion of Spanish I with a “C” grade or better.

Spanish II builds on the skills learned in Spanish I. There is additional emphasis on grammar and vocabulary acquisition.

SPANISH III A/B

Prerequisite: Completion of Spanish II with a “C” or better and/or teacher permission.

This course emphasizes reading, writing, vocabulary building, and further study of Spanish language structure. Students read cultural material, which is used as a basis for conversation and writing.

SPANISH IV A/B

SPANISH IV AP A/B

Prerequisite: Completion of Spanish III with a “C” grade and/or teacher permission.

A thorough and systematic review of all grammar points taught in Spanish I-III concentrates on individual needs. Readings include Spanish literature, newspapers, and magazines. Listening and speaking skills will be improved. Advanced students in this class prepare for the Advanced Placement test and it is expected that the students will take the exam.

ACCELERATED SPANISH FOR HERITAGE SPEAKERS OF SPANISH

Prerequisite: Ability to speak Spanish

This accelerated course will be taught in Spanish and will cover the material normally covered in Spanish I and II, all in one year. (Please note that this class only counts as **one year** of a world language.) The emphasis of this course will be to teach/improve skills in grammar, reading and writing which heritage speakers of Spanish need to master before advancing to Spanish III. This course will also review proper vocabulary. (The goal of this class is to build on what heritage speakers already know!)

SPECIAL EDUCATION

Courses require individual placement through an Individualized Education Plan (IEP).

OTHER COURSES

ACADEMIC SEMINAR

Grades 10-12

Prerequisite: Enrollment is based on try-outs and instructor selection.

This is a two-semester class designed to prepare a team for the Los Angeles County Academic Decathlon, which is generally held in February. Capable 9th graders may be allowed into the class for the spring semester. Topics can include math, science, art, music, economics, social studies, literature, and a SuperQuiz. Additionally, students will write an essay, participate in an interview, and deliver a prepared speech and an impromptu speech. Students of **all grade point levels** are needed. This class meets daily and often at lunch, after school, and evenings.

AVID (Advancement Via Individual Determination)**Grades 9-12**

AVID is a course for students in the middle with academic potential capable of completing a college degree. Students learn effective study skills, collaboration, inquiry, Cornell Notes, writing and share the goal of attending a four-year college. Applications and qualifying standards must be met for acceptance.

HEALTH FOR LIVING**Grades 9-12**

Health for Living is a comprehensive semester long Health course. The curriculum includes education in drugs, alcohol, tobacco, nutrition, physical fitness, mental health, diseases, male and female reproduction, and more.

JOURNALISM**Grades 9-12**

Prerequisite: "B" average in English/consent of instructor.

This is the class, which actually produces the school newspaper and is designed for students who have had some experience in journalism. Students also NEED the journalism teacher's APPROVAL to enroll. Here they learn more about the principles of good journalism and how to put those principles into practice. (Journalism may meet fine art or practical art requirements.) *May be taken to fulfill the UC/CSU elective requirement*

LAB ASSISTANT (SCIENCE)**Grades 10-12**

Prerequisite: Teacher's permission.

Lab assistants will record and file papers, prepare chemical solutions, set up demonstrations, correct and file tests, supervise laboratory and testing area, and aid students in their studies.

LIBRARY SCIENCE I**Grades 9-12**

Prerequisite: Approval of Library Media Teacher.

Students will learn the day-to-day routines of maintaining a library media center, including processing new materials, keeping resource collections in order, repairing materials, and assisting in some clerical tasks. The Information Literacy Standards will be covered through a series of weekly lessons. Skills in word processing, computer technology, and filing are required.

LIBRARY SCIENCE II**Grades 10-12**

Prerequisite: Approval of Library Media Teacher and Library Science I.

Students will continue to be trained in the day-to-day routines of maintaining a library media center, including circulating books, processing new materials, keeping resource collections in order, repairing materials, and assisting in some clerical tasks. The Information Literacy Standards will be covered through a series of special library projects. Skills in word processing, computer technology, and filing are required.

LIBRARY SCIENCE III**Grades 11-12**

Prerequisite: Approval of Library Media Teacher and Library Science I and II.

Students will continue to master the day-to-day routines of maintaining a library media center, including circulating books, processing new materials, keeping resource collections in order, repairing materials, and assisting in some clerical tasks. The Information Literacy Standards will be covered through a series of special library projects. One of these projects will require collaboration with a teacher. Skills in word processing, computer technology, and filing are required.

ROTC/AEROSPACE SCIENCE**Grades 9-11**

Prerequisites: Physically fit, 14 years of age, and good academic standing.

ROTC/Aerospace Science is a three-year program in Aerospace Science. The first year deals with the early beginnings of aviation and the advent of space explorations. Modern aircraft design and its component parts, as well as its purpose, are studied, along with the nature and importance of weather. The main events and the people involved in the development of space flight, spacecraft, rocket propulsion, and their purpose are studied. Students will become acquainted with military and civilian management customs and courtesies and flag etiquette. Respect for authority, the principles of honor and integrity, communication skills, problem-solving, human relations, and logical thinking are introduced. AFJROTC students will be expected to wear the uniform properly and proudly during the school day an average of one day per week. They will learn the basic drill movements and how to give commands. They will participate in field trips, cadet organization activities, and special events.

STUDENT GOVERNMENT**Grades 9-12**

Prerequisite: Consent of instructor.

Student Government is required of all elected student body representatives, but it is open to anyone interested in student government. The course deals with improving ability in leadership, problem solving, parliamentary procedure, self-expression, campus activities, and finance. Study centers around areas of concern to the student body, board meetings, department meetings, and other school-oriented meetings and activities.

STUDENT SERVICE**Grades 9-12**

PASS/FAIL ONLY—No letter grade will be given for this class.

Prerequisite: Permission of Counselor and Teacher.

This is a work situation where the student assists in the office or an individual faculty member.

YEARBOOK LAB

Prerequisites: Completion of application and selection procedures during previous spring. Consent of instructor

This is the class that produces the school yearbook. A formal selection process is followed in the semester prior to enrollment. Students selected by staff are notified before class registration, and only these students may enroll. Layout design, salesmanship, and copy writing are emphasized.

REGIONAL OCCUPATIONAL PROGRAM

Regional Occupational Program (R.O.P.) classes are open to students in grades 11 and 12 or those who are 16 years of age or older. For information on these classes please go to Saugus High's website www.hartdistrict.org/saugus and click on the R.O.P icon on the lower right-hand side.