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| **HOOVER** **HIGH** **SCHOOL****COURSE SELECTION****GUIDE** **FOR GRADES****10-12** |

**2013-2014**

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| **THE MISSION, VISION, AND MOTTO OF HOOVER CITY SCHOOLS****HOOVER HIGH SCHOOL BELIEFS** • Every student is valued and connected to the school community and supported as an individual in seeking education to attain personal goals and aspirations. • Learning is enhanced when students think critically and take ownership/ personal responsibility for the process. • Students learn best when challenged and actively engaged in relevant, contextual, and meaningful activities. • The best learning atmosphere is one in which student learning styles and teacher instructional styles are mutually acknowledged, enhanced, and encouraged. • The instructional staff is organized to provide appropriate instruction to prepare students for their experiences in HIGH school and following graduation. **Notice of Nondiscrimination for all Mass-Distributed Publications/Mass Communication*****Updated February 2013*****EQUAL EDUCATIONAL OPPORTUNITIES****(Board policy, 6.6)** No student will be unlawfully excluded from participation in, be denied the benefits of, or be subjected to discrimination in any program or activity offered or sponsored by the Board on the basis of race, ethnicity, color, disability, creed, national origin, sex, immigrant or migrant status, non-English speaking ability, or homeless status. All career and technical education opportunities are offered to all students regardless of race, color, national origin, sex, or disability. The district also provides equal access to the Boy Scouts and other designated youth groups.Dr. Barbara Mayer, IDEA CoordinatorMrs. Marley Stephens, Section 504 CoordinatorMrs. Linda Gurosky, Title I CoordinatorDr. Deborah Camp, Title II CoordinatorDr. Barbara Mayer, Title III CoordinatorMrs. Melody Greene, Title IX CoordinatorHoover City Schools2810 Metropolitan WayHoover, AL 35243(205) 439-1000**EQUAL EMPLOYMENT OPPORTUNITY****(Board policy, 5.13.1)** The Board is an equal opportunity employer. Personnel actions and decisions will be made without regard to factors or considerations prohibited by federal or state law (as such laws may from time to time be amended), including but not limited to race, gender, age, disability, national origin, citizenship, and religious preference. Subject to the limitations set forth in 4.6.2, the general complaint (grievance) policy (4.6.1) may be used to present any complaint alleging unlawful discrimination or harassment. Inquiries regarding compliance and complaint procedures can be directed to:Mary Veal, Equal Opportunity Employment CoordinatorHoover City Schools2810 Metropolitan WayHoover, AL 35243(205) 439-1000hhsptso**HOOVER HIGH SCHOOL****1000 Buccaneer Drive****Hoover, AL 35244****Telephone: (205) 439-1200****Fax: (205) 439-1201****PRINCIPAL**  DON HULIN**ASSOCIATE PRINCIPAL** TERRY SMITH**ASSISTANT PRINCIPALS** CARRIE BUSBY CHARLES BUTLER DR. HOLLY SUTHERLAND JENNIFER HOGAN JOHN MONTGOMERY**ATHLETIC DIRECTOR** MYRA MILES**COUNSELORS** DR. DEBBIE GRANT Ninth Grade A-L MARLEY STEPHENS Ninth Grade M-Z ANN HASTINGS Tenth Grade ZACH BUTLER Eleventh Grade PATTY PHILLIPS Twelfth Grade**COLLEGE/CAREER** CINDY BOND **GRADUATION COACH** LATANGELIA SANDERSON**SAP COUNSELOR** JENNIFER MCCOMBS**GENERAL INFORMATION** **In choosing your courses each year it is important to keep several factors in mind.**• Look carefully at the prerequisites for courses you are interested in taking.• Students who plan to apply to selective colleges and universities should have some advanced and/or AP courses during high school.• Students need to research college and career opportunities and require­ments for entrance early in their high school years.• Computer skills are important to have in order to be successful in a number of courses in high school and college (papers, presentations, research).The State Board of Education regulations require a specific number of hours of participation in a course in order to receive a Carnegie Unit of credit. At no time will a student be allowed to take a course considered less demanding when the student has completed a higher-level course in a sequence. Principals may approve course changes during the first ten days of school based on documented extenuating circumstances.**SCHEDULE CHANGE PROCESS** During the first ten days of the semester, the student must:1. Sign up to see his/her guidance counselor to have the change approved;2. Discuss the proposed change with his/her parent(s) and complete the Drop/Add Parental Consent form available in counselors' office;3. Pay $20 Drop/Add fee;4. Return the fee receipt to the counselor;5. Report to the office the day following the completion of step 4 to verify that the proposed change is possible and pick up the new schedule. Return textbook to teacher of the class leaving and obtain signature on the Drop/Add form. Upon receipt of a printed schedule, the transfer is considered official and the new schedule is in effectconsidering these points, share your ideas and concerns with your parents, teachers, counselor, friends, and anyone else who is involved in supporting you. Although the development of your educational plan is primarily your responsibility, it cannot be accomplished without the assistance of these people.**Keys to Success*****(College and Careers Research Initiative Findings)***• Work Ethic-a willingness to work hard-ability to set and meet goals-organization skills-self-discipline-ability to maintain focus and complete a task• Written and Oral Communication Skills-ability to communicate with a variety of people at different work levels or of different cultures-ability to speak clearly and persuasively• People Skills-ability to get along with others-ability to work as a member of a team-ability to show empathy and compassion for others• Thinking Skills-logic, conceptualization, "common sense"• Character-integrity, honesty, ethics, trust• Ability to Use Technology**PLANNINGYOUR****HIGH SCHOOL CAREER**The goal of Hoover High School is to provide an educational program that will empower all students to make choices and meet the challenges of the 21st century. Each student will follow a series of steps in selecting courses for the coming year.1. Students will meet with counselors in groups to discuss curricu­lum requirements.2. Students and parents will study the course selection guide and make selections. Extreme care should be used in course selection since these selections have a direct bearing on post high school decisions. Consider academic strengths and weaknesses. Do you have career interests and are your course selections taking you in that direction? In what school and non-school extracurricular activities will you participate, and how will these affect your study time? **Consider these things:** - What are your plans after high school? -. Are you going to a vocational school? -. Are you going to a junior college? -. Are you going to a four-year college? -. Are you going into the work force? -. Are you going into the military? **Parents should sign the registration sheet indicating approval of student choices.**3. Counselors and teachers are available to discuss selections with students.4. Students and counselors discuss selections, notify parents of any changes, and request parent approval for changes.**GRADING INFO GRADINGSYSTEM**The grading system at Hoover High School will reflect student’s actual perfor­mance in all facets of learning. The following grading system will be used:90 - 100 = A80 - 89 = B70 - 79 = C60 - 69 = DBelow 60 = FReport cards will be issued at the conclusion of each 9-week grading period. Report card grades will list percentages as well as letter grades. The semester grade will be based on the value of 40% for each nine (9) weeks and 20% for the semester exam. **TESTS****ALABAMA HIGH SCHOOL GRADUATION EXAM****(This only applies to students who began high school as a freshman in 2010 or earlier.)**The Alabama Board of Education requires that any student receiving an Alabama high school diploma must pass all subject tests of the Alabama High School Graduation Exam and fulfill requirements regarding number of credits. The assessment is composed of questions measuring the objectives identified in the Standards and Objectives for Alabama High School Graduation Exam, Bulletin 1997, No. 16, and Bulletin 1998, No. 13.Students entering the ninth grade in the fall of 1999 or after, take the third edition of the Graduation Exam which tests reading comprehension, lan­guage, math, science, and social studies.Students will have six opportunities, if needed, to pass each subject test before exiting school. Graduation exams are offered in March, July, Septem­ber, and December.**PLAN** The PLAN is a test offered in the tenth grade to help students and their parents, teachers, and counselors with the comprehensive, detailed informa­tion they need to build solid education and career plans. It gives an early indication of readiness for the ACT Assessment. It contains academic tests that measure achievement in English, mathematics, reading, and science reasoning. Tenth graders will be given the opportunity to take the PLAN. **PSAT** The Preliminary Scholastic Aptitude Test/National Merit Scholar-ship Qualifying Test (PSAT/NMSQT) is a multiple choice test that measures verbal, mathematical reasoning, and writing abilities important to doing college work. It also includes a required writing section. The PSAT/NMSQT gives students the opportunity to assess their verbal and mathematical skills, forecast SAT scores, discover whether they would be successful in Advanced Placement courses, participate in the Student Search Service, and qualify for scholarship and enrichment programs (National Merit Scholarships, National Achievement Scholarships). It must be taken in a student's junior year to qualify for the awards provided by College Board. Sophomores will be given the opportunity to take the PSAT for additional practice.

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| **SAT I Reasoning Test** The Scholastic Aptitude Tests are given to HIGH school juniors and seniors who plan to enter college. These tests are usually administered in October, November, December, January, April, May, and June. Preregistration is required. Register online at www.collegeboard.com or obtain a form from the Guidance Office. **ACT** The American College Tests are offered several times during the school year to students, usually 11th and 12th Graders, who plan to enter college. The months for testing are usually October, December, February, April, and June. Preregistration is required and forms may be obtained from the Guidance Office. The ACT Assessment assists 11th and 12th Graders in the transition from HIGH school to postsecondary education by providing information that can be used for admission, course placement, advising, and planning. It is recommended to be taken in the **late spring** of a student's junior year, as much of the test is based on eleventh GRADE work. Register online at www.actstudent.org or obtain forms from the Guidance Office. **NATIONAL HONOR SOCIETY** Juniors and seniors with a 3.65 or higher cumulative GPA are eligible to be considered for membership in the Hoover HIGH School Chapter of National Honor Society. Those students who have met the GPA requirements will receive a letter inviting them to complete the selection process for membership. The four criteria used for membership are as follows: scholarship, leadership, service, and character. Once a student meets the scholarship requirements, he or she must further qualify in the areas of leadership, service, and character. This process will be outlined at a meeting of all those junior and senior students who are eligible for membership based on their meeting the scholarship requirements. Parents are encouraged to attend this meeting. Interviews will not be part of the selection process of the faculty council; therefore, it is imperative that each student completes the National Honor Society Information Sheet, which requires giving detailed information about a student’s involvement in the areas of character, leadership, and service. It is highly recommended that students devote adequate time and thought to this portion of the information sheet, and each candidate may want to request that the completed form be reviewed with a parent prior to being submitted. Along with scholarship requirements, a student’s final admission into the National Honor Society by the faculty council will be determined by the student-provided information contained in the information sheet and by teacher recommendations. All seniors (current members and those who apply for membership during their senior year) are required to take at least two of the following courses. (International Baccalaureate students following a prescribed IB curriculum are exempt from these requirements.)

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| AP Biology  | Spanish 1\*, 2, 3, 4  | AP Music Theory |
| AP Chemistry  | Latin 1\*, 2, 3, 4  | Calculus  |
| AP Physics B or C  | AP Spanish Language  | AP Calculus AB  |
| Human Biology  | AP French Language  | AP Calculus BC  |
| Physics  | Forensics Science  | \*\*AP Government and Economics  |
| Genetics and Biotechnology  | AP Latin Literature  | AP Studio Art  |
| AP Environmental Science  | Math Team  | AP Computer Science  |
| AP English 12  | Pre-Calculus  | AP Psychology  |
| French 1\*, 2, 3, 4  | Pre AP Pre-Calculus  | Independent Research |

\*An additional first year language may be taken only if the student has successfully completed two years of a different foreign language. \*\*AP Government and Economics count as one course**ADVANCED PLACEMENT** The Advanced Placement program is a nationally recognized program sponsored by The College Board which enables students to complete college-level studies while still in high school and to obtain college placement credit on the basis of their performance on rigorous Advanced Placement examinations. A strong Advanced Placement program depends upon a partnership between motivated students, of whom much is expected, and dedi­cated high school teachers who are trained by The College Board. Participation in Advanced Placement programs is often used as one of the criteria for academic scholarship and acceptance into many highly selective colleges. All Advanced Placement courses carry a course fee and the cost of the exam in the spring.Advanced Placement courses move at a college pace and cover a wide range of content as defined by The College Board, that represent the same topics that one would expect to find in freshman and sophomore level courses at a typical college or university. Students should expect substantial reading and writing assignments outside of class, and on average an additional 60-75 minutes of homework nightly. Student contracts are required in order to enroll in an AP class. Contracts are available from the Counseling Department.ASK YOUR COUNSELOR OR ADVANCED PLACEMENT TEACHER FOR ADDITIONAL INFORMATION. **INTERNATIONAL BACCALAUREATE PROGRAM** In 1996, Hoover High School became the fourth school in Alabama to affiliate with the International Baccalaureate Organization. This organization directs an international curriculum recognized by educators, colleges, and employers around the world as a standard of excellence. Since its incep­tion 40 years ago, the IB program has become a symbol of academic integrity and intellectual promise. The student who completes the program dem­onstrates a strong commitment to learning, both in the mastery of subject content and the development of skills and discipline necessary for success in a competitive world.The IB Curriculum is taught in the 11th and 12th grades. Before entering the 11th grade, students should have completed at least two years of Latin, Spanish, or French. Pre-IB English and Pre-IB History are strongly recommended for 9th and 10th graders considering entering the IB Program. Students sit for international examinations in all subjects at the completion of their study. If test scores are satisfactory and all IB requirements are met, students earn an International Baccalaureate Diploma in addition to Hoover High School's Advanced Academic Diploma. Some basic facts about the IB program at Hoover High School are summarized below:•Criteria - Students must earn passing grades in all Pre-IB or equivalent classes and maintain at least a “C” average overall to enter the IB program. Once beginning the IB Program, students must pass all classes and maintain at least a "C" average overall to remain in the program. •Curriculum - The IB Diploma requires extended study in six academic areas or groups: English, Foreign Language, Social Studies, Mathematics, Science, and an IB-approved elective. See pages 16-17 for specific course requirements and options.•Complements - In addition to the academic course work, IB students must complete an extended essay on a topic of the student's choice, 150 hours of community and Creative service, and a Theory of Knowledge course.For further information on the International Baccalaureate program, contact the IB Coordinator at 439-1200**DUAL ENROLLMENT** The State Board of Education has adopted a policy which will allow eligible HIGH school students to enroll in college classes and to receive both HIGH school and college credit for these classes. Hoover City Schools is currently engaged in a Dual Enrollment Plan with Jefferson State Community College and Lawson State Community College. Interested students should confer with their counselors. **Notice Dual Enrollment, Advanced Placement, International Baccalaureate, advanced classes, and some elective coursework may not be provided if a student is assigned to the Crossroads School.****Guide to Course Name Conventions Used at the High School Level** The terms listed below are used at the end of course titles to denote their special status. Course titles that do not contain these terms are considered part of the regular curriculum. The regular HIGH school curriculum of Hoover City Schools is based on a college preparatory model, and students should always expect challenging content and homework (an average of 15 – 30 minutes per night for each academic course). Homework should typically include respectful tasks that support, but do not replace, classroom instruction. **Pre-IB and Pre-AP courses are designations used by Hoover City Schools and are not authorized by the International Baccalaureate Organization or the College Board.****Pre-AP:**Description: Used to denote advanced level courses that specifically include content and skills that help prepare students for taking an Advanced Placement course in the given subject. These courses will also prepare students for the International Baccalaureate program in those subjects that do not have specific Pre-IB courses. ***The title Pre-AP designates a preparatory course for AP work, not a College Board Advanced Placement course.***Recommendation: Students with a strong work ethic who have demonstrated above average ability in the given subject and who desire to attempt college-level courses before graduating from high school Content distinction: These courses cover more challenging topics by moving faster through the contentGrade weight: + 0.25 quality points**Pre-IB:**Description: Used to denote advanced level courses that specifically include content and skills that help prepare students for participation in the International Baccalaureate program. Recommendation: Students with a strong work ethic who have demonstrated above average ability in all academic areas and who will have completed Algebra 2 w/Trig and at least two years of either French, Latin, or Spanish by the end of their sophomore yearContent distinction: These courses cover more challenging topics in greater depth, and they include content that is more focused on an international perspective to the given subject.Grade weight: Pre-IB English 10 — + 0.25 for parity with Pre-AP English 9 - 10Pre-IB U.S. History 10 — + 1.00 for parity with AP U.S. History 10**AP:**Description: Used to describe college-level courses that follow the Advanced Placement curriculum as defined by The College Board that prepares students for an examination at the end of the course, and the scores from these exams can be submitted for consideration of credit to colleges or universitiesRecommendation: Students with a very strong work ethic who are prepared to begin college-level coursework in the given subject prior to graduation from high schoolContent distinction: These courses move at a college pace and cover a deep range of content as defined by The College Board that represents the same topics that one would expect to find in freshmen and sophomore level courses at a typical college or universityHomework load: These courses require substantial reading and writing assignments outside of class, and students should expect on average an additional 30 – 40 minutes of homework per night for each courseGrade weight: + 1.00 quality points• Criteria: 85% average grade in advanced levels of the given subject and approval by the AP instructor**IB:**Description: Used to describe college-level courses that follow the International Baccalaureate curriculum as defined by the IB Organization in Geneva, Switzerland that prepares students for a series of examinations in all academic subjects, and the scores from these exams can be submitted for consideration of credit to colleges or universitiesRecommendation: Students with a very strong work ethic who are prepared to begin college-level coursework in all academic areas prior to graduation from high school and who desire an international perspective in their educationContent distinction: These courses move at a college pace and cover a deep range of content as defined by the IB Organization that meets the standards of colleges and universities around the world as a benchmark of excellenceHomework load: These courses require substantial reading and writing assignments outside of class, and students should expect on average an additional 30 – 40 minutes of homework per night for each courseGrade weight: + 1.00 quality pointsCriteria: Acceptance as an IB Diploma Candidate (approval of the IB Coordinator at HH**Team:**Description: Used to denote advanced level courses that are associated with academic teams that represent the school in competitive eventsRecommendation: Students with a strong work ethic who have demonstrated superior ability in the given subject and who can commit to substantial time demands outside of the regular school dayContent distinction: These courses move even faster through the content than their Pre-AP/IB peers, and they use class time gained by the faster pace to practice for competition in the given subjectHomework load: On average, an additional 20 – 30 minutes per night for each courseGrade weight: + 0.50 quality pointsCriteria: Approval of team sponsor**Dual:**Description: Used to denote courses that are associated with Dual Enrollment agreements that exist between Hoover City Schools and local colleges or universitiesRecommendation: Students with a good work ethic who have demonstrated above average ability in the given subject and who wish to earn college and high school credit at the same time. Students must pay tuition to the collegeand receive permission from the principal to enroll in the dual enrollment course. Content distinction: These courses follow the syllabus of the host college or university and may be taught on the high school or college campusHomework load: Varies by the course, but typical of what would be expected in a college courseGrade weight: + 0.50 quality pointsCriteria: Established by the college or university admission office (dual enrollment procedures)**Optional Grading Procedure for****Students Taking Eight Classes**A student's grade point average can suffer if the student takes on more than the normal course load of seven (7) subjects in an academic year. A student can take additional coursework through either zero-period classes or summer school. If a student believes that such additional coursework beyond the normal seven (7) subject course load will have a negative impact on their GPA, that student can apply for one of their elective classes to be graded as Pass/Fail. No courses required for graduation may be graded Pass/Fail. Students must request this before the 10th day of the semester.LIBRARYBy serving as the information center for the school, the Library Media Center promotes the ideal of "Learning for Life" by providing access to information. The Library Media Center's balanced collection, services, and programs meet the diverse needs of our patrons and promote literacy among our users. The Library Media Program is critical to student academic achievement and success.High School Consumable/Expendable SupplyPayment Schedule 2013-14The following list of approved fees is approved for publication in course selection documents and student handbooks for the applicable academic year. Mandatory fees may not be charged for participation in curricular or co-curricular activities unless those fees are published in this schedule. The following statements should accompany any published list of required fees Miscellaneous supplies and materials such as paper, pencils, and novels will still need to be provided by the parent..* Co-curricular activities such as band, athletics, choir, and academic teams may also require fund-raising activities..
* Mandatory fees will be waived for students who qualify for free or reduced lunch upon written request from a parent or guardian..
* Other parents who are concerned about fees or who need to set up a payment plan should request a conference with the principal..
* Where multiple fees might apply to the same course, such as an AP science class, the higher of the applicable fees will be the only one charged.

**General Fees**Activity card (optional).............................................................................................................$60.00Locker fee (optional, includes regular and PE locker if applicable).........................................$10.00Parking fee (optional)................................................................................................................$25.00Report card mailing fee...............................................................................................................$6.00Schedule change request...........................................................................................................$20.00Transcript fee (alumni only)........................................................................................................$5.00(Alumni must also complete a personal information release form)**Academic Course Fees**Advanced Placement Exam Fee (Per Course)………………………………………………….85.00 Additional lab and supply fees may also apply. See the course guide for course specifics.International Baccalaureate Program (per year, 11th and 12th)……………………………..$250.00Science lab fee...........................................................................................................................$25.00 (excludes Active Physical Science, Biology, and Earth Science)**Elective Course Fees**Art Survey………………….…………………………………………………...………...…..$10.00Band, jazz ensemble..................................................................................................................$40.00Band, marching (includes Aux Dance & Aux Flags)..............................................................$180.00(includes course fee, uniform rental, and band camp participation)Broadcasting courses.................................................................................................................$25.00Business courses........................................................................................................................$25.00Choir, piano keyboarding..........................................................................................................$25.00Cooperative Education / Work Study (regular ed only)............................................................$15.00Dance, all courses except Dance Team.....................................................................................$25.00Drivers Education.....................................................................................................................$30.00Engineering Academy...............................................................................................................$25.00Family Consumer Science, …………………...........................................................................$25.00Family Consumer Science, Foods & Nutrition ……................................................................$45.00Finance Academy......................................................................................................................$25.00Health Science Academy 1 - 3..................................................................................................$20.00Health Science Internship..........................................................................................................$60.00Information Technology Academy...........................................................................................$25.00Law Academy...........................................................................................................................$15.00Sports Medicine (1st year and Advanced)................................................................................$15.00Strength & Conditioning (Athletes & Non-Athletes) ..............................................................$15.00Team Sports .............................................................................................................................$15.00Theater, all courses....................................................................................................................$15.00US History Through Film…………………………………………………………………….$25.00Visual Art, Ceramics / Sculpture / Creative Crafts................................................................$50.00Visual Art, Digital Photography and Advanced Digital Photography.....................................$80.00Visual Art, Photography.........................................................................................................$125.00Visual Art, all others.................................................................................................................$40.00HOOVER HIGH SCHOOL GRADUATION REQUIRMENTS**English 4 credits ALABAMA HIGH SCHOOL DIPLOMA WITH** **ADVANCED ACADEMIC ENDORSEMENT** **1 English 1** **1 English 2** **1 English 3** **1 English 4****Social Studies 4 credits** **1 World History** **1 US History 10** **1 US History 11** **1 American Government/Economics****Mathematics 4 credits\*\*** **These four credits must include the equivalent of:** **Algebra 1** **Geometry** **Algebra 2 with Trigonometry****Science 4 credits\*\*** **1 Biology** **1 Chemistry** **2 Additional Life/Physical Science Credits****Physical Education 1 credit** **1 Physical Education****Foreign Language 2 credits in the same language****Health Education ½ credit****Fine Arts 1 credit** **1 credit from music, art, or drama****Computer Apps/Business ½ credit\*****Technology Applications****Electives 5 credits** **Students work with their counselor, parents, and teachers to develop an appropriate four-year plan.****TOTAL CREDITS 26 CREDITS**\*May be waived if computer literacy, keyboarding skills, and introductory applications are verified by qualified staff at the high school through a competency test. It is strongly suggested that students take a full year of computer applications.\*\*Students who take Algebra 1 in the eighth grade and complete precalculus by the end of their junior year will have satisfied the four year require­ment for math; however, college bound students are encouraged to take a math course their senior year. If a qualified student chooses not to take math during his/her senior year, the student must take another course from the areas of English, science, social studies, foreign language or business technology. ***NOTE: Some courses may not count toward the Advanced Academic diploma. See course descriptions for specifics .*** Additional Hoover High School Diploma EndorsementsStudents may earn optional high school diploma endorsements listed below by completing coursework extending beyond the state minimum graduation requirements according to criteria authorized by the state board of education and additional requirements authorized by the local board of education:**Hoover City Schools Seal of Scholastic Excellence**• *(effective with the graduating class of 2012)** + At least four (4.0) credits that meet one of the following criteria:
		- Two (2.0) credits of a foreign language in the same language and two (2.0) credits in a college-level course (i.e. AP, IB, or dual enrollment)
		- Three (3.0) credits of a foreign language in the same language and one (1.0) credit in a college-level course (i.e. AP, IB, or dual enrollment)
	+ At least two (2.0) credits of science that meet one of the following criteria:
		- One (1.0) credit in Chemistry and one (1.0) credit in Physics, or
		- One (1.0) credit in Integrated Chemistry / Physics, Pre-AP and one (1.0) credit in an Advanced Placement or International Baccalaureate science course
	+ At least one (1.0) credit in math at the Precalculus level
	+ Cumulative GPA of 3.00 or higher
	+ A minimum of 28.0 earned total credits

**Alabama Advanced Academic Endorsement** • ***(Default “First Choice” for all)**** + At least two (2.0) credits of a foreign language in the same language
	+ Science credits must include at least one (1.0) credit in Chemistry or Physics
		- The Hoover City Schools Board of Education has increased this science requirement beyond the State of Alabama’s minimally defined credits
	+ Math credits must include at least one (1.0) credit in Algebra 2 with Trigonometry
	+ A minimum of 26.0 earned total credits
		- The Hoover City Schools Board of Education has increased the total credit requirement beyond the State of Alabama’s minimum requirement by two (2.0) additional credits

**Alabama Career Technical Education Endorsement** • * At least three (3.0) credits in a sequenced Career Technical Education program of study
* A minimum of 24.0 earned total credits
* **Alabama Advanced** C**areer Technical Education Endorsement**
	+ At least three (3.0) credits in a sequenced Career Technical Education program of study
	+ Math credits must include at least one (1.0) credit in Algebra 2 with Trigonometry
	+ A minimum of 24.0 earned total credits
* **Alabama** C**redit-**B**ased Endorsement** • *(effective with the graduating class of 2008)*
	+ Completion of all course and credit requirements for the Alabama High School Diploma with a minimum of 24.0 earned total credits
	+ The student must pass three (3) of the five (5) sections of the Alabama High School Graduation Exam, and two (2) of the three (3) sections o passed must be in reading and math.
		- A student with a disability in the area of reading or math as defined IDEA may have other options. Please see your counselor to discuss those options.
* (Effective with the graduating class of 2012) Completion of at least one (1.0) credit in a career technical education course. If the student o has also met the requirements for a Career Technical education course.

**The Alabama** O**ccupational Diploma*** The Alabama Occupational Diploma (AOD) is achieved through the standard curriculum or an alternative that is aligned with the Alabama courses of study. The recipients of this diploma are students with some form of learning disability. Those who receive the AOD must take the AHSGE but are not required to pass in order to receive the Alabama Occupational Diploma. While the AOD is prescriptive in nature and offers the maximum high school requirements arrived at by the Individual Education Plan (IEP) Committee for each eligible student, it does not meet the U.S. Department of Education's definition of a high school graduate and is not used in calculations of the Alabama High School Graduation Rate.
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| **ACADEMIES****FINANCE ACADEMY** **FINANCE ACADEMY 1 4500061** **BUSINESS TECHNOLOGY APPLICATIONS/FINANCIAL LITERACY***Grade Level: 9 Fee: $25**Prerequisite: Application and acceptance into the Finance Academy*Course Video: <http://www.youtube.com/watch?v=Rf3t7SYuPS4>This is a one-credit foundation course designed to assist students in developing technological proficiency in word processing, spreadsheets, databases, presentations, communications, Internet use, ethics, and careers using technology applications. Simulations and projects promoting teamwork, leadership, and workplace skills offer further opportunities for applications of knowledge and skills. Finance Academy 1 also covers a course in Personal Finance which introduces students to the management of personal and family resources to achieve personal goals and financial literacy. The course provides opportunities for students to explore individual and family money management, use of credit, income tax, technology, and careers in providing financial services to individuals and families, choices that affect income, financial decisions and planning, buying decisions, paying for credit, and credit problems and laws.**FINANCE ACADEMY 2 450021****INTRODUCTION TO FINANCIAL SERVICES***Grade Level: 10 Fee: $25**Prerequisite: Finance Academy 1*Course Video: <http://www.youtube.com/watch?v=Rf3t7SYuPS4>This course provides students with an overview of financial services companies and is one of the core courses offered by the Academy of Finance. The class begins with an introduction to our community’s economy and an overview of business. Next, students study the origins of money and of banking, and then move into an in-depth study of the types of companies that make up today’s financial services industry. They learn about common methods by which businesses raise capital—IPOs, selling stocks and bonds, and short-term financing—and study key investment-related terms and concepts, including the time value of money. Specific topics of importance in today’s world of finance, risk management, taxes, and ethics are exam­ined. In addition, students will study contemporary issues including the level of personal saving in the U.S.; ethics in the financial services industry; and the industry’s effect on communities and families. Finally, students get a chance to consider the types of careers that exist in financial services companies.**FINANCE ACADEMY 3 4700121 ACCOUNTING***Grade Level: 11 Fee: $25**Prerequisite: Finance Academy 2*Course Video: <http://www.youtube.com/watch?v=Rf3t7SYuPS4>(For description, see **ACCOUNTING** in Business Technology Education section.) Finance Academy 3 students will also be preparing for their internships by obtaining knowledge to gain the most value from their experience.**FINANCE ACADEMY 4 4000171 ENTREPRENEURSHIP***Grade Level: 12 Fee: $25**Prerequisite: Finance Academy 3*Course Video: <http://www.youtube.com/watch?v=Rf3t7SYuPS4>This course is a natural fit for Finance Academy students because entrepreneurship integrates the functional areas of business – accounting, finance, marketing, and management – and the legal and economic environment in which any new venture operates. Finance Academy 4 is a one-year course designed to provide students with the skills needed to effectively organize, develop, create, and manage a business with an emphasis on real-world entrepreneurs and real businesses. Students will participate in an online internet marketing project and develop a business plan for their own business idea. Finance Academy 4 students will also complete an internship evaluation project and have the opportunity to travel to New York City.**INFORMATION TECHNOLOGY ACADEMY** All Information Technology Academy classes are offered for a full year.**IT ACADEMY 1 520005 FOUNDATIONS***Grade Level: 9-12 Fees: $25**Prerequisite: Application to, interview, and acceptance into IT Academy. In addition, grades 10-12: BTA.*Course Video: <http://www.youtube.com/watch?v=R4uWmPFNR3k>Students will use the Cisco Networking Academy curriculum course (IT Essentials: PC Hardware and Software) as well as the National Academy Foundation (NAF) IT curriculum to gain exposure to computer hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands-on activities and virtual labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. In addition, an introduction to networking is included. This course helps students prepare for CompTIA’s A+ certification. Additionally, students will develop their computer proficiency through the use of Microsoft Office Word, Excel, Access, and PowerPoint software, as well as conduct Internet research.**IT ACADEMY 2 4100161 CREATIVE MEDIA DESIGN/PROGRAMMING***Grade Level: 10 Fee: $25**Prerequisite: IT Academy 1***,** *Application to, interview, and acceptance into IT Academy.* Course Video: <http://www.youtube.com/watch?v=R4uWmPFNR3k>Students will learn the basics of web page design, focusing on learning about and writing in HTML and increasing web page performance. Students will gain proficiency in Adobe Photoshop, Dreamweaver, InDesign, Illustrator, and Flash. Additional topics include determining appropriate image formats and working with plug-ins. Furthermore, students learn how to describe, analyze and solve programming problems, paying attention to details. These skills will be acquired while learning the syntax of a programming language.**IT ACADEMY 3 520021 NETWORKING I** *Grade Level: 11-12 Fee: $25**Prerequisite: IT Academy 2***,** *Application to, interview, and acceptance into IT Academy.* Course Video: <http://www.youtube.com/watch?v=R4uWmPFNR3k> This course is designed to provide students with skills involving a hands-on, career-oriented approach to learning networking that includes practical experiences. This course includes activities that emphasize the application of networking in terms of implementation and career opportunities. Information Technology Academy 3 students will also be preparing for their internships by obtaining knowledge to gain the most value from their experience. **IT ACADEMY 4 520024 NETWORKING II***Grade Level: 12 Fee: $25**Prerequisite: IT Academy 3/Networking***,** *Application to, interview, and acceptance into IT Academy.* Course Video: <http://www.youtube.com/watch?v=R4uWmPFNR3k> This course is designed to provide students with skills involving hands-on learning by installing a router, configuring a server, and performing disaster recovery. This course includes a strong emphasis on proper safety practices and industry ethics. IT Academy 4 students will also complete an internship evaluation project.**E N G I N E E R I N G A C A D E M Y**The Engineering Academy courses are advanced general electives that do not count as a science credit and cannot be applied toward the four science credits necessary for graduation. Students must be admitted to the Engineering Academy through an application and interview process in order to register for any of these courses**ENGINEERING ACADEMY 1 – INTRODUCTION TO ENGINEERING/ENGINEERING DRAWING & SOLID MODELING 560001**Grade Level: 9*Prerequisite: Students must be admitted into the Engineering Academy to register for this course.**Prerequisite: Students must have successfully completed or be concurrently enrolled in Algebra I**Corequisite: Biology**Laboratory Fee: $25.00*Course Video: <http://youtu.be/voIoRQ2d5Cs> This course is designed to introduce students to the field of engineering. The majority of the curriculum focuses on sketching and drawing techniques by hand, 2D computer-aided drawing (CAD), 3D solid modeling, the Engineering Design Process, and basic manufacturing techniques (using standard shop tools). Due to the format of the course and the number of independent/team-based projects, students will be expected to demonstrate significant academic, ethical, and social maturity. *Microsoft Office* will be taught and used extensively throughout the course for research and communication. *SolidWorks* will be used extensively for computer modeling throughout the course.**ENGINEERING ACADEMY 2 – ENGINEERING INSTRUMENTATION & ANALYSIS 560012***Grade Level: 10**Prerequisite: Students must be admitted into the Engineering Academy to register for this course.**Corequisite: Chemistry (Pre-AP or General) or Chemics and Geometry or Algebra II (Pre-AP or General)**Laboratory Fee $25.00*Course Video: <http://www.youtube.com/watch?v=AkbUy_TXV34&feature=youtu.be> This course is designed to introduce students to the major fields of engineering through 6-9 week research and/or design projects focused on specific engineering disciplines. In the course of the projects, students will become familiar with standard engineering instrumentation used to acquire data and with various strategies and tools for analyzing data. Technical communication (oral and written) will be emphasized throughout the course. Students will also be introduced to finite element modeling and analysis using *SolidWorks*.**ENGINEERING ACADEMY 3 – ENGINEERING COMPUTATIONS 560013***Grade Level: 11**Prerequisite: Students must be admitted into the Engineering Academy to register for this course.**Corequisite: Physics or AP Physics B and Algebra II or Pre-Calculus**Laboratory Fee $25.00*Course Video: <http://www.youtube.com/watch?v=WbLfCLlujDc> This course is designed to teach students basic programming logic using text-based (*MATLAB*) and graphical programming (*LabVIEW*) environments. Mathematical models of physical systems will be developed and analyzed. Students will also use *LabVIEW* to interact with instrumentation in order to acquire and process “real-world” data. Students will be prepared to sit for the *Certified LabVIEW Associate Developer* exam during the second semester of the course.**ENGINEERING ACADEMY 4 – ENGINEERING DESIGN & ENTREPRENEURSHIP 560014***Grade Level: 12**Prerequisite: Students must be admitted into the Engineering Academy to register for this course.**Corequisite: AP Physics B or C and Pre-Calculus or Calculus**Laboratory Fee $25.00*Course Video: <http://www.youtube.com/watch?v=abqoBFa-_5U&feature=youtu.be>. This course is designed to introduce students to basic principles of project management, entrepreneurship, and business in the context of engineering design. Students will apply these principles to two long-term senior design projects that will incorporate content from previous math, science, and engineering courses. Students will work with outside clients and experts whenever possible. When possible, students are expected to develop a functioning prototype of their design, write a summary of their work, and formally present their work to peers, mentors, and outside experts. **HEALTH SCIENCE ACADEMY****HEALTH SCIENCE ACADEMY** **FOUNDATIONS OF HEALTH SCIENCE 490007***Grade Level: All**Fee: $20.00*Course Video: <http://youtu.be/mbJpG3eh6fQ> Through hands-on activities and labs, students will explore health care careers including the education and skills needed to achieve their goals. They will also study the basic structure and function of the systems of the human body learning the appropriate medical terminology. They will explore the legal and ethical implications within the health care setting. In addition they will explore the history of medicine and look at the representation of health care providers in the popular imagination. They will be introduced to the business aspect of health care by learning about how health care is paid for and delivered. Students will be introduced to clinical skills such as taking vital signs and performing CPR. Students who successfully complete a full year of Health Science Academy 1 may use this credit as a substitute for the required 10th grade semester Health course. This option only applies to those taking the course in the 2009-10 school year and beyond.”**HEALTH SCIENCE ACADEMY : EMERGENCY SERVICES 410024***Grade level: 10-12**Prerequisite: Foundations of Health Science**Fee $20*Course Video: <http://youtu.be/mbJpG3eh6fQ> In this class students will learn to assess an emergency situation and to perform the initial assessment of a victim. The students will be introduced to emergency practices such as moving the injured person. Students will learn the skills required in emergencies such as emergency child birth, poisoning, drug overdose, allergic reaction, cardiac arrest, and bleeding. They will learn the anatomy and physiology as it relates to emergency medical procedures. They will explore careers in emergency medicine and examine the work place and communication skills required in these exciting careers. **HEALTH SCIENCE ACADEMY: HEALTH PROMOTION AND WELLNESS (1 Semester course) 490021***Grade level: 10-12**Prerequisite: Foundations of Health Science*Course Video: <http://youtu.be/mbJpG3eh6fQ> In this class students will explore the variables that influence our health beliefs and practices. They will **analyze various models of health and disease. They will evaluate health promotion strategies and** investigates the social and environmental influences on wellness. They will assess the levels of prevention and the safety practices in the health care industry. Registration Cost: None**HEALTH SCIENCE ACADEMY: (Therapeutic Services 823) 490023***Grade level: 10-12**Prerequisite: Foundations of Health Science*Course Video: <http://youtu.be/mbJpG3eh6fQ> Through lecture and lab activities, this course will introduce students to the role of patient care providers in the clinical setting. This course will focus on clinical skills, on anatomy as it applies to disease processes, pathophysiology and treatment. Patient care activities that will be explored include bedside care, the use of mobility aides and the assessment of vital signs. Registration Cost: $20**HEALTH SCIENCE ACADEMY: Introduction to Pharmacy 490022***Grade level: 10-12**Fee $20**Prerequisite: Foundations of Health Science* Course Video: <http://youtu.be/mbJpG3eh6fQ> In this class students will trace the development of pharmaceuticals, compare the role of a pharmacist and a pharmacy technician and explore the state laws and regulations pertaining to a career in pharmacy. Students will explore the difference classes of drugs and their routes of administration. Students will explore how prescriptions are filled in a simulated pharmacy setting. Fields trips to related sites such as a school of pharmacy are planned. **HEALTH SCIENCE ACADEMY Internships 824 490013***Prerequisite: HSA 1 - Foundations in Health Science* Criteria for class: Qualification for Senior Release*Class fee: $60 ($37.50 to include scrub set)*Course Video: <http://youtu.be/mbJpG3eh6fQ> The Health Science Internship will allow the Health Science Academy student to shadow a health care provider along with classroom instruction. The student will observe a health care provider in a clinical setting and will interact with patients. In the classroom the students will discuss what they have observed and will reflect on their experiences and on a health care career. The student will also learn job employability skills through classroom activities. Every effort will be made to match up students with health care providers in fields in which the students are interested. Students should not expect a “hand on experience” during this internship. Students can express a preference for a rotation site but it will not be guaranteed. Students cannot make independent arrangements.**HSA MEDICAL TERMINILOGY 490033***Grade level: 10-12**Prerequisite: Prerequisite: HSA Foundations* *Fee $20*Course Video: <http://youtu.be/mbJpG3eh6fQ> Medical Terminology is a one-credit course that is designed for students to develop health care specific knowledge for a career in the medical field. The course uses an integrated approach for teaching the language of medicine to the health care student by incorporating medical terminology with anatomy and physiology and the disease process. This method has been proven to be a logical and effective method of learning the language of medicine.**LAW ACADEMY****Law Academy1: Philosophy and Ethics 2300321***Prerequisite: Interview with Law Academy Team; ability to read critically**Fee: $15**Grade Level: 9*Course Video: <http://youtu.be/HFeMTVcJDTk> This entry-level course is designed for students to compare schools of Western philosophy and ethics to develop their personal philosophical and ethical principles. Students will approach the study, of Philosophy/Ethics in a variety of ways. They will read, study, and discuss various classical works.**Law Academy2: Historical Documents 2300322***Prerequisite: Law Academy 1**Fee: $15**Grade Level: 10*Course Video: <http://youtu.be/HFeMTVcJDTk> This course is designed as an in-depth study of the U.S. Constitution and the legal and historical primary documents that form the basis of our law system. Students will investigate the historical context in which these documents were written.**Law Academy3: Practical Law 2300323***Prerequisite: Law Academy 2**Fee: $15**Grade Level: 11*Course Video: <http://youtu.be/HFeMTVcJDTk> This course provides specific information on the structure, function, and operation of the legal system. Students explore the Constitution as interpreted by the Supreme Court and apply this meaning to current issues. Students explore the development of political thought and its impact on popular culture through the use of modern media**Law Academy4: MOCK TRIAL Team 2300323***Prerequisite: Law Academy 3**Fee: $15**Grade Level: 12*Course Video: <http://youtu.be/HFeMTVcJDTk> An internship and the skills developed therein will serve as preparation for post-secondary education or entry into the job market. Students will apply critical thinking skills through both in-class and competitive interscholastic experiences. Students will participate in the preparation, presentation and support of Mock Trial teams as a vehicle to the development of critical thinking, analytical, public speaking, responsive/reactive thinking, preparation, practice and performance skills. The case will be judged in a competitive manner.**THE EDUCATION ACADEMY****THE EDUCATION ACADEMY 1 460009****EDUCATION AND TRAINING***Grade Level: 9-12 Fee: $25**Prerequisite: Application and Acceptance into the The Education Academy*Course Video: <http://www.youtube.com/watch?v=5kHgPrnMOA0> Education and Training is a one-credit course. This course is designed for students who are interested in pursuing careers in education.  Course content includes the organizational structure of education; career opportunities; the roles and responsibilities of educational personnel; characteristics of effective educators; effective communication skills necessary for the profession; the teaching and learning processes; learning styles; characteristics of a positive classroom environment;  impact of human growth and development on teaching and learning; curriculum development; student characteristics; teaching techniques; learning activities; educational initiatives; and technology tools used in education.  Field-based experiences are a required component of the course.  FCCLA and FTA are the Career and Technical Student Organizations (CTSOs) that enhance classroom instruction.     **Blended Online Learning Program****Goal:** *Selected students will complete part of their high school curriculum in a blended online learning environment which prepares students for online college learning, creates time for students to enroll in college courses and/or work part-time, retains face-to-face validity for summative and performance assessments, and lessens physical demands on the high school buildings in terms of classroom space and time.* **Eligibility:** * Students and parents must sign a waiver acknowledging the lack of direct supervision during the time students are released from school and assuming responsibility for transportation.
* Students must have a cumulative GPA of 2.75 or higher.
* Students must have had no more than one (1) unexcused absence in each of the two previous academic semesters.
* Students must have had no more than one (1) office referral for discipline in each of the two previous academic semesters.

 **Implementation:*** Students will attend class on campus for one (1) class period one (1) day per week for every online learning course in which they are enrolled. This on-campus time will be used to complete written tests under the teacher’s supervision, but the time can also be used for laboratory work, group project planning, or traditional classroom lectures or discussions.
* Students will use off-campus release time to complete online learning assignments through an online curriculum management system and an online communication and document management portal.
* During off-campus instructional days, online learning teachers will keep office hours where they will check student progress and provide individual and small group assistance using telephone, chat, and blog tools. Students may also schedule individual meetings with online learning teachers during this time as needed.

**If a student’s numerical grade at any progress report or nine-week grading period falls below 65%, the student will be administratively withdrawn from the online learning class and transferred to a traditional classroom course for the same subject.** **Senior Late Arrival/Early Departure**High school seniors who are on track with regard to earning an Alabama High School Diploma may be released for up to two (2) elective periods per day if they meet the following conditions:1. The student must provide his/her own transportation to and from school. 2. The student has at least a 2.50 GPA and has had no more than three (3) unexcused absences or disciplinary referrals in the previous semester. 3The student will be using this release time to further his/her personal educational goals in at least one of the following ways. * Participating in private instruction in academic, athletic or artistic pursuits
* High school athletes participating on school teams may not receive private athletic instruction during normal school hours (AHSAA eligibility rules)
* Enrollment in Early College at a two or four year postsecondary institution
* Enrollment in a career certification program at a technical college
* Working in a paid job or internship opportunity related to future career goals
* Volunteering for a community service agency

 4. The student and parent verify the authenticity of the rationale, and the parent assumes responsibility for monitoring student adherence to the proposed use of this release time. The parent acknowledges that the student will not be on campus and will not be directly supervised by school employees during the release time.**Blended Online Courses** **ENGLISH 12 BLENDED ONLINE 2000171**Course Video: <http://www.youtube.com/watch?v=2mVSE5ajdCM> **UNITED STATES GOVERNMENT BLENDED ONLINE 2300512** Course Video: <http://www.youtube.com/watch?v=2mVSE5ajdCM> **ECONOMICS BLENDED ONLINE 2300512** Course Video: <https://www.youtube.com/watch?v=O-Y7rdcYqG4> **HEALTH BLENDED ONLINE 2500021**Course Video: <http://youtu.be/0_B4aQ6uGUA> **CAREER AND TECHNICAL EDUCATION****BUSINESS TECHNOLOGY EDUCATION**All Business Technology Education classes are offered for a full year. Future Business Leaders of America-Phi Beta Lambda (FBLA-PBL) and the Association for Marketing Students (DECA) are cocurricular components of business courses. These student organizations enhance classroom instruction, develop leadership skills, and provide opportunities for professional growth and service.**CAREER PREPAREDNESS 400025***Grade Level: 9*This one credit course prepares students with content knowledge and skills in the areas of career development and academic planning, computer skill application, and financial literacy. This course meets the 20 hour online experience requirement.**BUSINESS TECHNOLOGY APPLICATIONS 450006** *Grade Level: 10-12 Fee: $25*Course Video: <http://youtu.be/CkFTDsooQDw> This is a one-credit foundation course designed to assist students in developing technological proficiency in word processing, spreadsheets, databases, presentations, communications, Internet use, ethics, and careers using technology applications. Simulations and projects promoting teamwork, leadership, and workplace skills offer further opportunities for applications of knowledge and skills. **ACCOUNTING 470012***Grade Level: 10-12 Fee: $25**Prerequisite: \*\*Met State Computer Literacy Requirement* Course Video: <http://youtu.be/CkFTDsooQDw> Did you know that all college business majors must take at least one course in Accounting? This high school course will prepare students who are considering business as their college major and for their first course in college accounting. This is a one-credit course designed to help students understand the basic principles of the accounting cycle using both manual and automated procedures. This course provides a comprehensive introduction to basic financial accounting, including analyzing and recording business transactions, preparing and interpreting financial statements, demonstrating generally accepted accounting principles and performing banking and payroll activities. **ACCOUNTING 2 470013***Grade Level: 11-12 Fee: $25**Prerequisite: Accounting 1* Course Video: <http://youtu.be/CkFTDsooQDw> This is an advanced course for students who desire greater skills, deeper insights, and broader applications of accounting knowledge. Emphasis is on financial analysis, departmentalized accounting, corporation accounting, managerial accounting, and the use of computer applications and spread­sheets. Students will receive hands-on accounting experience by serving as business managers for the school store, ***The Buc Stop***. **ENTREPRENEURSHIP 400017***Grade Level: 11-12 Fee: $25**Prerequisite: \*\*Met State Computer Literacy Requirement* Course Video: <http://youtu.be/CkFTDsooQDw> This course that will take students through the step-by-step process of owning and managing a business. Students will learn the skills necessary to operate and manage a business. These skills include identifying and meeting a market need, problem solving, decision making, planning, financing, hiring, using technology, recognizing opportunities, and avoiding pitfalls. Students will participate in a business community simulation and develop a business plan for their own business idea. **BUSINESS MANAGEMENT PRINCIPLES 480011***Grade level: 11-12           Fee: $25**Prerequisite:  \*\*Met State Computer Literacy Requirement*Course Video: <http://youtu.be/CkFTDsooQDw> Management Principles is one-credit course designed to provide students with anunderstanding of the organizational functions of businesses, including quality concepts, projectmanagement, and problem solving. Topics include analyzing functions of management, examining leadership styles, and reviewing organizational structures.**CREATIVE MEDIA DESIGN 1 410016***Grade Level: 10-12 Fee: $25**Prerequisite: \*\*Met State Computer Literacy Requirement* Course Video: <http://youtu.be/CkFTDsooQDw> This course is designed to provide students with hands-on skills involving graphic design, digital photography, Web design, and digital video pro­duction. Students will use various hardware peripherals and software (Adobe Design Premium Creative Suite which includes InDesign, Photoshop, Illustrator, Dreamweaver, and Flash) for creating documents and websites.**CREATIVE MEDIA DESIGN 2 410017***Grade Level: 11-12 Fee: $25**Prerequisite: Creative Media Design 1* Course Video: <http://youtu.be/CkFTDsooQDw> This course is designed to provide students with live-work experience utilizing their print and web design skills. Students will create publications such as brochures, newsletters, programs, posters, invitations, business cards, newspapers, and websites, etc.**COMPUTER SCIENCE, PRINCIPLES 520008***Grade Level: 10-12 Fee: $25*Course Video: <http://www.youtube.com/watch?v=juWUIZjvQu8> Computer Science Principles is designed to introduce students to the central ideas of computing and computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing and computer science change the world. **AP Computer Science 520007***Grade Level: 11-12 Course Fee: $25 AP Exam Fee: $85**Prerequisite: Algebra 2*Course Video: <http://www.youtube.com/watch?v=fqw1CHxUD2A> AP Computer Science (APCS) emphasizes the development of computer programs that correctly solve a given problem using the Java programming language.  Students will learn to design and implement solutions to problems by writing, running and debugging computer programs using algorithms and data structures.  Additionally, student will learn to read and understand large programs and recognize the ethical and social implications of computer use.**PERSONAL FINANCE 400021***Grade Level: 10-12 Fee: $25**Prerequisite: \*\*Met State Computer Literacy Requirement*Course Video: <http://youtu.be/CkFTDsooQDw> This course focuses on the students’ roles as citizens, family members, consumers, and active participants in the business world. This year-long course begins with the basics of financial literacy and the function of finance in society. Students study income and wealth, including budgeting, personal banking, credit and borrowing, and planning for retirement. Students will discover new ways to maximize earning potential, develop strategies for managing resources, explore skills for the wise use of credit, and gain insight into different ways of investing money. Finally, students explore various in-demand careers of today.Reasons to take this course—* Fewer than 1 in four students feel that they know enough about personal finances.
* A Federal Reserve study found that in states where financial literacy training is mandated, students accumulate more wealth than other young adults.
* Among personal concerns, financial pressure tops the list as a major concern for one third of college students.
* 13.8 million college students arriving on campus this year have $250 billion in spending power. That includes $56 billion in discretionary spending power to put toward such items as food, clothing, entertainment and technology.

**COOPERATIVE EDUCATION SEMINAR   400031** **CAREER/TECHNICAL EDUCATION***Grade Level: 11-12      Fee: $25**Prerequisite: Application and acceptance into the program*Course Video:  <http://www.youtube.com/watch?v=B77owQh5UB0>Work-Based Experience Seminar is is a one-credit elective course that provides students with the opportunity to explore career development and employment and create a career/employment portfolio and is a required component of the Cooperative Education Program after a student meets the minimum requirements for participation and is accepted into the program. The Seminar course requires that students meet with the teacher-coordinator one class period per week and work a minimum of 270 continuous and successful hours under the teacher-coordinator’s supervision in at an approved job site.  Students will participate in DECA as a co-curricular component of the course.  The goal of these programs is to lead to further education and employment.  Cooperative education will help empower students to become competitive employees and productive citizens.**WORKFORCE ESSENTIALS   400016** **CAREER/TECHNICAL EDUCATION***Grade Level: 11-12      Fee: $25**Prerequisite: None*Course Video: <http://www.youtube.com/watch?v=kVIiDp_4494> A one-year course designed to provide students with academic foundations for careers; applied technology; career development and employment skills; socials and ethical responsibility, teamwork; safety and health regulations; basic finance principles and technical knowledge and skills.  Students successfully completing all requirements for Workforce Essentials will earn one elective credit in CTE.  Membership in a student organization is optional but recommended for all students.   The goal of Workforce Essentials is to help empower students to become competitive employees and productive citizens. **FAMILY AND CONSUMER SCIENCES** **FAMILY AND CONSUMER SCIENCES 510004**Grade Level: 9-12*Fee: $25**Full Year*Course Video: <http://www.youtube.com/watch?v=QW42VuytTx0> This course addresses life sciences in the areas of family and parenting, food and nutrition, clothing, housing, career development and money manage­ment.**FOODS AND NUTRITION 510011***Grade Level: 10-12**Fee: $45**Full Year*Course Video: <http://www.youtube.com/watch?v=H_X7ZzpDbvk> As a student you will practice planning, preparing and serving nutritious and esthetically pleasing meals. We’ll also study the impact of nutrition for personal wellness as well as careers in the food industry.**HOUSING AND INTERIOR DESIGN 510051***Grade Level: 10 - 12**Fee: $25**Full Year*Course Video: <http://www.youtube.com/watch?v=weR2I_s9JN8> If you like color, fabric and decorating; this class is for you! We will have several housing design projects where you will create your own personal look. You will also be able to identify furniture styles, architectural details and the elements and principles of design within your home.**FASHION AND DESIGN 510042****Grade: 10-12***Fee: $25**Semester Course*Course Video: <http://www.youtube.com/watch?v=Pwcl0k-gfE8> This course surveys fashion history and other influences on fashion design. Students also study textiles, technology, careers, personal consumer practices and complete garment construction. Sewing skills are extremely challenging and therefore impact ability to achieve passing grades.**LIFE CONNECTIONS 510031***Grade: 10-12**Fee: $25**Full Year*Course Video: <http://www.youtube.com/watch?v=EutoCNw5E9s> This course is designed to promote positive outcomes and choices in dating, marriage, family, personal development, college life, personal manage­ment skills, personal finance, and first homes/apartments. Also included are food labs supporting life stages issues such as low cost meals, entertaining, everyday meal preparation and personal recipe compilation.**BROADCASTING****TV PRODUCTION, INTRO 440017***Grade Level: 9-12 Fee: $25*Course Video: <http://www.youtube.com/watch?v=ZJcDvZ7AfoA> This course is an introduction to broadcasting and will explore the various areas of the electronic media. Students will be introduced to basic concepts in broadcasting, producing, and marketing television and radio programs. The history and development of the broadcasting industry will also be included. Students will also receive exposure to non-linear video editing.**TV PRODUCTION, JOURNALISM 440018***Grade Level: 10 - 12**Prerequisite: TV Production Intro* *Permission of instructor**Fee: $25*Course Video: <http://www.youtube.com/watch?v=ZJcDvZ7AfoA> This course is designed to use the information and skills from the introductory course to produce news, sports, community interest, and special events programs. Students will be responsible for producing a weekly newscast, daily morning announcements and will develop skills in areas such as direct­ing, on-air performance, and segment production. Students should expect to spend after school hours in labs to complete projects.**TV PRODUCTION, ADVANCED 440020***Grade Level: 11-12**Prerequisite: TV Production Intro and Broadcast Journalism and/or permission of instructor**Fee: $25*Course Video: <http://www.youtube.com/watch?v=ZJcDvZ7AfoA> This course allows students with a serious interest in broadcasting to continue instruction and to work on special projects, including production of a video yearbook. Students will also produce public affairs programs and further develop producing and directing skills as well as receive instruction and experience in the production of other video presentations. Students will be expected to spend out of class time for recording and/or editing projects.**TV production, STUDIO OPERATIONS 440019***Prerequisite: Advanced Broadcasting**Grade Level: 11-12 Fee: $25*Course Video: <http://www.youtube.com/watch?v=ZJcDvZ7AfoA> This course allows students to continue to hone their skills in television production. Students will produce in-studio programs using Final Cut Pro, AVID and VT-5 editing software. Students will further develop use of production skills with CG, special effects, audio and lighting. Students will receive instruction on new editing software and studio techniques. This course will deal with the mass production of DVDs and other production materials.**ENGLISH****English 9th grade 200005***Prerequisite: satisfactory completion of eighth grade English*Course Video: <http://www.youtube.com/watch?v=qELtx836cfs&utm_source=trigger&utm_medium=email&utm_campaign=you_tube_ready> English 9 includes a review of basic grammar skills, composition and writing, literature study, and a vocabulary program incorporating Greek and Latin root words as well as vocabulary development for high stakes testing instruments. Students are introduced to the library facilities and are required to complete an informational research paper in addition to other modes of writing. **English 9th grad**e**, Pr**e**-AP 200007***Prerequisite: EXPLORE English score 15+, Reading score 17+*Course Video: <http://www.youtube.com/watch?v=1fEH8nlc4ZA> In addition to regular course of study, English 9, Pre-AP emphasizes critical thinking skills, literary analysis, formal essay writing, both timed and untimed, as well as group discussions and presentations. Students are also introduced to timed multiple choice simulations of adapted AP testing instruments. Traditional and contemporary literary works are evaluated. This course moves at a rapid pace and is geared towards above-average readers, competent writers, and well-motivated, independent learners. It is aligned with The College Board Advanced Placement standards and assessments in ways that are appropriate expectations and challenges for ninth grade students. Students enrolling in English 9, Pre-AP are those who anticipate enrolling in AP programs as juniors or seniors. ***The title Pre-AP designates a preparatory course for AP work, not a College Board Advanced Placement course.*****Pre-IB** E**ngl**i**sh 9th** Grade  **2000071**See the IB section for information.*Prerequisite: EXPLORE English score 15+, Reading score 17+*Course Video: <http://www.youtube.com/watch?v=2HpUoosIGXw> **English 10th GRADE 200009***Prerequisite: English 9*Course Video: <http://www.youtube.com/watch?v=IdpJs_YJRgM> English 10 is a survey of early American literature to 1900. The class also includes essay writing, research, grammar, and vocabulary.**English 10th GRADE, PRE-AP 200011***Prerequisite: EXPLORE English score 15+, Reading score 17+**85 average in prior English course; teacher signature; see AP information on page 5*Course Video: <http://www.youtube.com/watch?v=Q69rXWHk8ow> English 10, Pre-AP follows the same basic curriculum as English 10, but it is intended for the above-average, well-motivated student. The class includes additional outside readings and places greater emphasis on critical thinking. It is aligned with The College Board Advanced Placement standards and assessments in ways that are appropriate for tenth grade students. Students enrolling in this course are anticipating enrollment in English 11, Advanced Placement Language and Composition and English 12, Advanced Placement Literature and Composition. ***The title Pre-AP designates a preparatory course for AP work, not a College Board Advanced Placement course.*****English 11th GRADE 200013***Prerequisite: English 10*Course Video: <http://www.youtube.com/watch?v=2WK4wkNO2ss> English 11 introduces selections in American literature from 1900 to the present with an additional emphasis on grammar, composition, and vocabulary. Teachers stress literary and composition analysis to encourage critical thinking skills.E**nglish 11th grade, Language AP 200016***AP Exam Fee: $85**Prerequisite: PLAN English and Reading score 24+, English 9 and 10 Pre-AP with at least an 85 average, teacher signature; see AP information page 5*Course Video: <http://www.youtube.com/watch?v=h6GnajNWQDU> The Advanced Placement English Language and Composition course is a college-level course that follows the precepts of the College Entrance Examination Board. This course will pair an in-depth study of American literature since 1920 with the study of rhetoric and rhetorical strategies employed in nonfiction prose. Students will read from a wide variety of fiction and nonfiction texts, including works for mature readers. According to The College Board, the purpose of this course is "to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers."**English 12th grade BLENDED ONLINE 2000171**Course Video: <http://www.youtube.com/watch?v=2mVSE5ajdCM> **English 12th grade 200017***Prerequisite: English 11*Course Video: <http://www.youtube.com/watch?v=8JPdwhK3r9U> In English 12 students survey representative selections of each genre of British literature. Teachers refine narrative, descriptive, expository, analytical, and research composition skills. Vocabulary enrichment evolves through literary selections and vocabulary exercises.**English 12th grade, LITERATURE AP 200020***AP Exam Fee: $85**Prerequisites: PLAN English and Reading score 24+, English 11 Language with at least an 85 average; teacher recommendation; see AP information on page 5*Course Video: <http://www.youtube.com/watch?v=HLs7ba17C4M> Advanced Placement English Literature and Composition is a college level course designed to follow the precepts of the College Entrance Examina­tion Board. Students read from a variety of literary masterpieces including works for the mature reader. Emphasis is placed on literary analysis and critical composition.**ENGLISH ELECTIVES****CREATIVE WRITING1-A 200033 & 1-B 2000331***Grade Level: 10 - 12*Course Video: <http://www.youtube.com/watch?v=BjlzUZR8um0> Creative writing is the study of writing and the transmission of original thought through writing. The ability to get the reader to hear what the writer seeks to say is the core skill taught in this course. In this introductory class, students will explore the various methods of communication through reading, analyzing, and creating examples of poetry, short stories, essays, plays, children's literature, and other forms. Students will be required to write on a daily basis, to regularly share written work with their peers, and to complete long term writing assignments. This year-long course is divided into two semester-long components:**Cr**e**ati**ve **Writing 1-**A **200033***First semester only*This class will cover the short story and poetry sections of Intro to Creative Writing.**Cr**e**ati**ve **Writing1 -B 2000331***Second semester only**Prerequisite: Introduction to Creative Writing(1-A) or permission of the instructor*This class will cover the children's lit, drama, and essay portions of Intro to Creative Writing.**Cr**e**ati**ve **Writing 2 2000332***Grade Level: 10-12**Prerequisite: Creative Writing 1A & 1B and permission of the instructor*Course Video: <http://www.youtube.com/watch?v=BjlzUZR8um0> Creative Writing 2 is a class for students who want to pursue writing more intensively. Focusing on larger projects and on workshop-style revision, the goal of this course is to provide young writers with a supportive environment within which they can develop the core skills and self-confidence needed to pursue writing in earnest. Students taking this course should expect extensive writing assignments throughout the year. PLEASE NOTE: Content restrictions in Creative Writing II will be significantly relaxed from the standards of Creative Writing I to allow students to develop their authorial voices. Parents are advised that this may include the use of mature themes or language.**Newspaper Journalism 200035***Grade Level: 10 - 12**Prerequisite: Permission of the instructor*Course Video: <http://youtu.be/5JkNhP6OQ8I> Newspaper staff members participate in production of the school newspaper. Responsibilities include the sale of advertisements, reporting, copy writing and editing, layout, design, and distribution of the paper.**Yearbook 9991141***Grade Level: 9-12**Prerequisite: Permission of the Caravel adviser is mandatory upon approval based on application.  See Mrs. Nowlin in D347 for an application.* Course Video: <http://www.youtube.com/watch?v=CHDe4-fsqFg&feature=youtu.be> This course allows students the opportunity to participate in a leadership role in the production of our yearbook, *The Caravel*. Students specialize in the areas of desktop publishing (CS5), layout-copy production, photography, copy and caption writing, or business/advertising. Some after school hours are required at times.  We have 5 deadlines to meet in order to get 500+ pages turned in on time.   *In all English courses at Hoover High School, students are expected to acquire supplementary reading/vocabulary materials.***FINE ARTS****ART SURVEY 280001***Grade 9-12**Fee: $10*Course Video:This course offers an exploration of art through the ages, including a study of famous paintings, sculptures, music, and architecture.  Students will complete projects and presentations. Art Survey meets the graduation requirement for fine art and is an alternative to Art I – Mixed Media.  *Art Survey does not fulfill the requirement of Art I – Mixed Media as a prerequisite for advanced art and/or ceramics courses.***ART 1 MIXED MEDIA 280093***Grade 9-12**Fee: $40*Course Video: <http://www.youtube.com/watch?v=CmILxvFj4oc> In this course students will be introduced to a wide range of two and three dimensional art media and techniques. Some of the two dimensional proj­ects include: drawing in pencil, ink, and charcoal; collage; oil pastels; and painting in watercolor, temperas, and acrylics. Three-dimensional projects may include: clay sculpture, hand-built pottery, paper mache sculpture, and plaster carving. Students will also learn about the elements of art and principles of design, a vocabulary of art terms, and a survey of the major movements in art history.**SCULPTURE 2800936***Grades 10-12**Fee: $50* Course Video:Course Video: <http://www.youtube.com/watch?v=L9PsOy6Sk_w> This course is designed for students who wish to explore sculpture in a variety of media. The class will include sculpting with sheet metal, bronze and aluminum, plaster and glass. Clay sculpture and pottery is also included, using hand building and wheel throwing techniques with high-fire earthenware. Students will also explore raku firing, and a variety of glaze application techniques.**ART 2 DRAWING AND PAINTING 280094***Grades 10-12**Prerequisite: Art 1 Intro to Art**Fee: $40*Course Video: <http://www.youtube.com/watch?v=mHt1Wl1EUNY> Drawing is the foundation of all the visual arts. In this class students will learn how to develop their drawing and painting skills. Students will draw in pencil, charcoal, and ink. Drawing from life will be emphasized, working from the model and the still life. The fundamentals of perspective will be covered also. In painting, students will learn about color theory and mixing colors. They will also learn a variety of painting techniques in watercolor, temperas, and acrylics. **ART 3 DRAWING ANDPAINTING 280095****Grades 10-12***Prerequisite: Art 2**Fee: $40*Course Video: <http://www.youtube.com/watch?v=mHt1Wl1EUNY> The primary focus of this course will be on drawing and painting, with an emphasis on working from direct observation (still life and models). Some printmaking and computer graphics may be included. For students who will be going on to Advanced Placement Art their senior year, this course can serve as a preparatory course, giving them an early start on work for their AP portfolio.**ART 4 DRAWING ANDPAINTING 280096***Grade Level: 12 Prerequisite: Art 3**Fee: $40* Course Video: <http://www.youtube.com/watch?v=mHt1Wl1EUNY> This course is for 12th grade art students who do not want to take art at the A.P. level, but who would like to continue working in two-dimensional media. Students will work on developing original works of art in a variety of media, including paint, pencil, pastels, ink, and printmaking.**STUDIO ART, AP 280103***Grade Level: 12 Course Fee: $40 AP Exam Fee: $85**Prerequisite: Art 3 and signature of teacher* Course Video: <http://www.youtube.com/watch?v=mHt1Wl1EUNY> AP Art is for senior students who are seriously interested in competing for art scholarships and/or advanced college credit. The main focus of AP Art is the production of a portfolio of the student's best work. This portfolio may be used to compete for college scholarships and possibly advanced college credit. The portfolio requires a large amount of high quality artwork, which will require hard work both in and out of class. Only serious art students should sign up for this course.**PHOTOGRAPHY**  **2800935***Grade Level: 10-12**Fee: $125* *(Special Instructions: Student must have a 35 mm camera)*Course Video: <http://www.youtube.com/watch?v=uG6ivRyE8YY> In this class students will learn about photography as a fine art. Objectives for the class include: the proper use of a camera, film developing, print­ing, the rules of good composition, and the history of photography. Students will also learn about pin-hole photography, photograms, emulsion transfer techniques, and hand tinting as well as a basic introduction to digital photography and the use of Adobe Photoshop manipulation techniques.**CREATIVE CRAFTS 2800932***Grades 10-12**Prerequisite: Art 1**Fee: $50*Course Video: <http://www.youtube.com/watch?v=g8kRKvAEIhE> In this course students will experience the production of crafts and learn about the cultures from which they originated. Course projects include, but are not limited to: Mosaics, Paper Crafts, Paper Mache, Sculpey Clay, Jewelry, Glass Painting, and Wire projects. The two primary objectives of Creative Crafts are to promote excellence in crafts and to educate and promote the appreciation of fine craftsmanship.**CREATIVE CRAFTS, ADVANCED 2800942***Prerequisite: Creative Crafts**Grades: 11 & 12 Art 1 pre-requisite**Fee: $50* Course Video: <http://www.youtube.com/watch?v=g8kRKvAEIhE> In this course students will build on their skills from Creative Crafts. They will produce crafts and learn about the cultures from which they originated. Projects will include tile mosaics, paper mache, jewelry, and various other crafts.**DIGITAL PHOTOGRAPHY 2800951***Grades: 10-12**Fee: $80*Course Video: <http://www.youtube.com/watch?v=U3Z0s8mVCGY> In this course the student will be introduced to the many technical aspects of modern day digital photography and digital photo manipulation. Students will become proficient in the use of digital cameras as well as professional photography studio equipment. Students will utilize the photography editing software, Adobe Photoshop to manipulate their photography, and to create meaningful artistic photographs. This course includes a study of the elements of art and principles of design and the application of those elements to real-world problems. Students will learn the history, vocabulary, and artists as­sociated with photography and digital collage. Students will create a digital portfolio of their work in this course.**ADVANCED DIGITAL PHOTOGRAPHY 2800961***Prerequisite: Digital Photography and signature of instructor (Rigsby)**Fee: $80* Course Video: <http://www.youtube.com/watch?v=U3Z0s8mVCGY> This course is designed as an advanced study of photography and digital editing techniques. The class will build on knowledge gained from the Digital Photography Class. Students will continue to refine their personal aesthetic through the act of written and oral critique as well as researching a variety of artists and art movements. Students must own a digital camera, be self-motivated, and have a strong interest in the subject matter.**CERAMICS 2800931***pre-requisite Art 1**Fee: $50* Course Video: <http://youtu.be/a5VvdAK7uqc> In the Ceramics classroom you will see works of art in progress, potters wheels, glazing tables, ceramic tool stations and other equipment and tools used for ceramic arts. As a part of the ceramics class you will be taught to create both functional and non-functional works of art. You will be taught to create these works using the slab, molding and wheel methods. These works include hand painted platters, wheel thrown dishes (cups, bowls, cas­serole), musical instruments, fountains, painted tiles and much more. You will sometimes work in groups on larger projects and sometimes work in pairs. When you complete this course you will have a strong working knowledge of clay and its many functions as well as how to build and utilize its magnificent qualities. **CERAMICS, ADVANCED 2800941***Fee: $50*Course Video: <http://youtu.be/a5VvdAK7uqc> Advanced Ceramics is an extension of the processes learned in Ceramics I. In addition to the hand building methods learned previously, the student will be exploring more advanced techniques on the potter’s wheel including functional wares such as plates, casserole dishes and drinking mugs. The student will also be discovering self-expression through transferring imagery onto his/her clay forms using printmaking methods such as screen printing and stenciling. Advanced Ceramics will serve to further the student's knowledge of the many other avenues that can be travelled by the clay artist.**DANCE****DANCE I 2800111**Grades 10-12*Fee: $25*Course Video: <http://www.youtube.com/watch?v=qJVWKrGjucU> This course emphasizes the essential elements needed for learning basic dance styles and techniques. All aspects of dance will be covered in this course. Aspects of dance are as follows: ballet, jazz, tap, modern, dance history, terminology, choreography and performance. Students will also learn about body-kinesthetic and injury prevention. Dance will be experienced by the students physically, cognitively, socially, and emotionally.**DANCE, ADVANCED**  **280012**Prerequisite: Permission of instructorFee: $25Course Video: <http://www.youtube.com/watch?v=qJVWKrGjucU>Advanced Dance is a program designed for students with a sound background in dance. Students enrolled in this course should already have knowl­edge of dance terminology as well as proper dance technique. This course will focus on exploring more complex choreography in addition to historical and cultural concepts of dance. Students will also learn to relate music and movement through self-choreographed pieces. Dance Fundamentals is not necessarily a prerequisite to Advanced Dance although students with no or limited dance experience will want to pursue the more basic course before attempting the fast-paced, challenging Advanced Dance class. There is a required performance each year.  **MUSIC****BAND CONCERT/MARCHING 280035***Prerequisite*: *Permission of instructor and prior instrumental music instruction required. No beginning instruction is available. Each musician will be expected to perform at a Grade 3 level of musicianship to participate in the band. Concert and Marching instruction is provided for each student. Band is divided into 2 or 3 class levels (depending on total enrollment) which is determined by audition prior to enrollment. Students must be in band both semesters. Attendance at all rehearsals and performances is required and graded. Director's signature is required on course selection sheet.**Fee:$180*Course Video: <http://www.youtube.com/watch?v=YFBWkJ6yeHE> Marching band will provide musical and visual entertainment at all football games. In addition, students will participate in competitive events such as marching festivals and contests. Concert bands will perform winter and spring concerts and will participate in District and State assessment perfor­mances. Major areas of concentration are as follows: development of characteristic tone production, playing fundamentals, and marching fundamentals. This course meets the Physical Education requirement and additionally the Fine Arts requirement.**BAND JAZZ ENSEMBLE 280031***Prerequisite*: *Membership in concert and marching band (except for guitar, bass, and piano) and by audition only.* *Director’s signature is required on course selection sheet.**Fee: $40*Course Video: <http://www.youtube.com/watch?v=WvJNZEKliJc> This course is designed to develop skills in the performance of jazz, rock, popular, and studio music. This group is a major performing group in the band program and presents concerts to appropriate school and community events. Attendance at performances is part of the course requirements. The course will also explore the fundamentals of jazz improvisation, jazz theory and jazz history. **BAND AUXILIARY DANCE 2800112***Prerequisite: By tryout only**Fee: Paid through Buccanettes + $180 paid at registration.*Course Video: <http://www.youtube.com/watch?v=0NMn8ABkYIA> Buccanettes perform at all pep rallies, football games, competitions, and parades. In addition, members will perform at selected home basketball games and other community events. Buccanettes are chosen in the spring of this year and are required to uphold all rules and regulations established in the Buccanette Policy Manual.**BAND AUXILIARY FLAGS 2800114***Prerequisite: By tryout only**Fee: Paid through instructor - $180 paid at registration.*Color guard will perform at all football games, parades, and competitions. Members are expected to perform at all band performances.**CHOIR 9TH GRADE 280051***Fee: $25*Course Video: <http://youtu.be/EKI56jkLWxk> The primary focus in this choir is the development of the singing voice, developing fundamental musical skills including ear training, sight singing and music theory.  This choir participates in two major concerts each year and State Choral Performance Assessment.  This is a performance based elective that has a $25.00 elective fee and requires purchasing a uniform.  If you have a desire to improve your singing voice, have a positive attitude, and have a good work ethic you will be successful in this course.**CONCERT CHOIR 10TH GRADE 280053***Fee: $25**Prerequisite: Director's signature required*Course Video: <http://youtu.be/EKI56jkLWxk> The primary focus in this choir is the development of the singing voice, developing fundamental musical skills including ear training, sight singing and music theory.  This choir participates in two major concerts each year and State Choral Performance Assessment.  This is a performance based elective that has a $25.00 elective fee and requires purchasing a uniform.  If you have a desire to improve your singing voice, have a positive attitude, and have a good work ethic you will be successful in this course.**CONCERT CHOIR 11TH G**RADE **280055***Fee: $25*Course Video: <http://youtu.be/EKI56jkLWxk> In Junior and Senior Honors Choirs singers continue to develop musical skills started in the 9th and 10th Grade Concert Choirs.  Although it is helpful for developing vocal musical skills participation in 9th and 10th Grade Choir is not required for participation in the upper level choirs.  In these ensembles there is strong concentration on music fundamentals with continued development of ear training, sight reading, healthy vocal production, and music theory.  Choral repertoire in these ensembles is more advanced and challenging.  This is a performance based elective and there is a uniform purchase requirement.  There are two major performances each year and these choirs participate in State Choral Performance Assessment.  Students in these ensembles are also offered the opportunity to participate in Collegiate Honor Choirs at in state and out of state colleges and universities.  Many choral students from the HHS Choral Department are attending college/university on choir scholarships.  They have received these scholarships based on their ability to sight read, their vocal tone quality and other musical skills learned and developed through participation in the HHS Choral Program.  These students are majoring in disciplines other than music, but participate in choir.  Many former choral students are on scholarship majoring in music.                **CONCERT CHOIR 12TH GRADE 280057***Grade Level: 11 – 12**Fee: $25**Prerequisite*: *Interview/Audition with Choral Director and Director's signature required*Course Video: <http://youtu.be/EKI56jkLWxk> In Junior and Senior Honors Choirs singers continue to develop musical skills started in the 9th and 10th Grade Concert Choirs.  Although it is helpful for developing vocal musical skills participation in 9th and 10th Grade Choir is not required for participation in the upper level choirs.  In these ensembles there is strong concentration on music fundamentals with continued development of ear training, sight reading, healthy vocal production, and music theory.  Choral repertoire in these ensembles is more advanced and challenging.  This is a performance based elective and there is a uniform purchase requirement.  There are two major performances each year and these choirs participate in State Choral Performance Assessment.  Students in these ensembles are also offered the opportunity to participate in Collegiate Honor Choirs at in state and out of state colleges and universities.  Many choral students from the HHS Choral Department are attending college/university on choir scholarships.  They have received these scholarships based on their ability to sight read, their vocal tone quality and other musical skills learned and developed through participation in the HHS Choral Program.  These students are majoring in disciplines other than music, but participate in choir.  Many former choral students are on scholarship majoring in music.                **MUSIC THEORY, AP 280024***Grade: 10-12* *AP Exam Fee: $85**Prerequisite: Basic ability to read musical notation. Basic performance skill in voice or on an instrument. Permission of instructor*Course Video: <http://www.youtube.com/watch?v=LPj8tJxEMFQ> AP Music Theory is designed to provide students with a learning experience equivalent to that of an introductory college course in music theory. The goal of this course is to develop the student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. This course will seek to instill mastery of the rudiments and terminology of music as well as the development of aural, written, compositional, analytical, and sight-singing skills. Among the rudiments of music to be mastered in this course are notation, scales, keys, modes, chords, Roman numeral analysis, metric organization, figured bass, part writing and much more. Music Theory is an AP class that is for both instrumentalists and vocalists. This course is strongly recommended for any student who is considering majoring or minoring in music and also for those who want a deeper understanding of the theoretical aspects of music. **PIANO KEYBOARD TECHNOLOGY   2800311***Grade Level: 9-12* *Fee: $25**Teacher's Signature Required*Course Video: <http://www.youtube.com/watch?v=8N9m4-DstEg> Open to students with a no formal piano training and a high level of interest in music and piano.  Priority is given to students also enrolled in Choir and Band.  This course is not listed on the course selection sheet; you MUST see Mrs. Shelton in the Choir Room (E187) to sign up.**PIANO KEYBOARD TECHNOLOGY, ADVANCED   280033***Fee: $35**Grade Level: 9-12* *Teacher's Signature Required*Course Video: <http://www.youtube.com/watch?v=8N9m4-DstEg> Open to students with prior piano experience and a high level of interest in music and piano. Priority is given to students also enrolled in Choir and Band.  This course is not listed on the course selection sheet; you MUST see Mrs. Shelton in the Choir Room (E187) to sign up. **DRAMA****THEATER ARTS 280071***Grade Level: 9-12**Prerequisite: None**Fee: $15*Course Video: <http://www.youtube.com/watch?v=Fl8F_9hY9xA&feature=youtu.be> Theater Arts I is the basic introduction to the theater. Emphasis is placed on the fundamentals of acting as well as the basics of play production such as lighting, sound, costuming, and set design/construction. Activities include performing from published plays as well as improvisation and creative dramatics. The goal of Theater Arts I is to acquire an appreciation for the theater as an actor, backstage participant, and audience member. Opportunities to participate in school play productions are available.**THEATER ARTS, ADVANCED 280072***Grade Level: 10-12**Prerequisite: Theater Arts and Permission of the Instructor (Malone)**Fee: $15*Course Video: <http://www.youtube.com/watch?v=Fl8F_9hY9xA&feature=youtu.be> Advanced Theater Arts is a more in-depth investigation of the theater. The students participate in local or state-wide theater festivals. Students also select, direct and produce plays as part of the Hoover One-Act Play Festival. Other class activities include improvisation, creative dramatics, and select units of study which vary per year. Past topics have included make-up, stage combat, dialects and Shakespeare.**IB THEATER** **280081***Prerequisite: Drama 1, and approval of theater teacher**Grade level:11 and 12 (2 year course: 1st year prep, 2nd year prep and assessments)**Fee: $65 for IB Candidates; $85 for certificate*Course Video: <http://www.youtube.com/watch?v=Fl8F_9hY9xA&feature=youtu.be> This course will be taught in conjunction with advanced drama. Students will complete additional assessments based on the IB theater requirements and develop their theater portfolio which will be submitted for IB assessment.**FOREIGN LANGUAGE****SPANISH****SPANISH 1 270153**Course Video: <http://www.youtube.com/watch?v=oSyWL60bADE> In Spanish 1, the student will acquire a basic vocabulary for reading, writing, and conversation. The past and present tenses of verbs will be learned. The student will begin to learn about the civilization and culture of the Hispanic countries.**SPANISH 2   270154**Prerequisite: Spanish ICourse Video: <http://www.youtube.com/watch?v=LI2mKCjlHEI> Spanish 2 builds on the foundation of Spanish 1. Students will learn additional verb tenses and increase their vocabulary. Students will continue to develop their listening, writing, reading, and speaking skills. The study of Hispanic culture is a component of the course. This course is intended for students that will end their study of Spanish with Spanish 2.**SPANISH 2 Advanced   2701541***Prerequisite: Spanish I*Course Video: <http://www.youtube.com/watch?v=yXkxGqVoTx8&list=HL1357929614> Spanish 2 builds on the foundation of Spanish 1. Students will learn additional verb tenses and increase their vocabulary. The Advanced course is taught at an accelerated pace allowing students to greatly improve their listening, writing, reading, and speaking skills in preparation for further Spanish study. The study of Hispanic culture is a component of the course. This course is intended for students that will continue their Spanish studies in upper level classes. **SPANISH 3, Pre-AP 270155***Prerequisite: Spanish 2*Course Video: <http://www.youtube.com/watch?v=EBhV8anQ8ZI> Pre AP Spanish 3 builds on the skills developed in earlier Spanish study to prepare students for AP Spanish, IB Spanish, or additional study of Span­ish at the college level. Special emphasis is placed on the skills required for communication, including intensive reading, listening, speaking, and writing practice. Grammar is reviewed and newspapers, radio broadcasts, and magazine selections are used as supplementary texts. The class will be conducted primarily in the language. ***The title Pre-AP designates a preparatory course for AP work, not a College Board Advanced Placement course.*****IB SPANISH 270160***Prerequisite: Three years of Spanish* *Fee: $15*Course Video: <http://www.youtube.com/watch?v=GckJxywi4W8> See the IB section for the course description.**SPANISH LANGUAG**E **AP 270157***AP Exam Fee: $85**Prerequisite: Pre-AP or IB Spanish*Course Video: [www.youtube.com/watch?v=ciCWt4FPcus](http://www.youtube.com/watch?v=ciCWt4FPcus) AP Spanish Language is a course intended for students who wish to develop proficiency in Spanish and to integrate their language skills, using authen­tic materials. The course will help students demonstrate their interpersonal, interpretive, and presentational skills in the target language. The course is designed to prepare the students for the new AP Spanish Language Examination. Students who take this class should have had at least a B average knowledge of the language and cultures of Spanish-speaking peoples. AP Spanish Language is comparable to a fifth or sixth semester college class.**FRENCH****FRENCH 1 270023**Course Video: <http://vimeo.com/57485356> French 1 provides the essentials of basic French. Vocabulary, verbs, and basic communicative skills are some of the major focuses of the course. Daily oral practice is an important component of the course as well. Students gain an insight into the culture of France and Francophone countries.**FRENCH 2 270024***Prerequisite: French 1* Course Video: <http://www.youtube.com/watch?v=VNz7-jyHdHI> French 2 builds upon the skills learned in French 1. The vocabulary is expanded and many new verb tenses are added. Reading and writing skills are also improved through cultural excerpts and short essays.**FRENCH 3, Pre-AP 270025***Prerequisite: French 2*Course Video: <http://vimeo.com/57486029> French 3 involves a grammar review. Students expand reading, writing, listening and speaking skills through the use of a variety of texts and media such as cultural and historical readings, magazine and newspaper articles, short stories, novels, plays, poems, songs, films and radio broadcasts. ***The title Pre-AP designates a preparatory course for AP work, not a College Board Advanced Placement course.*****FRENCH 4, IB French 270029***Fee: $15**Prerequisite: French 3*Course Video: <http://www.youtube.com/watch?v=LH-PFuU_I_o> French 4 IB prepares students for the standard-level (SL) French B Language Examination. Emphasis is placed on active communication in the language and analysis of French and Francophone culture and literature. Students will be required to give oral presentations and to develop text-handling skills.  Students do not need to be enrolled in the IB Diploma Program to take this course.**F**RE**NCH 5, AP French Language 270027***AP Exam Fee: $85**Prerequisite: French 4*Course Video: <http://www.youtube.com/watch?v=LH-PFuU_I_o> French 5 AP pursues preparation for the Advanced Placement French Language exam. All verb forms and grammatical points are reviewed. The four competencies of listening, speaking, reading and writing are integrated in the curriculum to prepare for the examination using a variety of texts and media.**LATIN****LATIN 1 270111**Course Video: <http://www.youtube.com/watch?v=exSHLMBvIFc> Students will acquire a proficiency in the language by translating simple Latin stories about Roman mythology, history, and daily life. Students will expand their vocabulary through the study of English derivatives. Cultural emphasis is mythology and the birth and development of Rome.**LATIN 2 270112***Prerequisite: Latin 1*Course Video: <http://www.youtube.com/watch?v=sh_8wPdgerk> Students will continue to develop proficiency in the language by translating more complex Latin stories. Students will study Roman daily life by simulating a Roman engagement, marriage, election, and funeral.**LATIN 3, Pre-AP/IB 270113***Prerequisite: Latin 2*Course Video: <http://youtu.be/2Ya9MwdvGQ4> Students will read authors such as Julius Caesar, Cicero, and Ovid. Students will discuss the style, cultural significance, and contemporary relevance of this literature. Students will continue to use elements of the Latin and Greek languages to increase knowledge of their own language. ***The title Pre-AP designates a preparatory course for AP work, not a College Board Advanced Placement course.*****IB Latin 270116***Prerequisite: Three years of Latin**Fee: $15*Course Video: <http://www.youtube.com/watch?v=vRNhAKYM144&feature=em-share_video_user> This course prepares students for standard level (SL) examination in a classical language, Latin. Emphasis is placed on the study of the surviving classical texts in the original language and an analysis of Greek and Roman culture and historical development*Hoover High School offers four years of the following languages: Spanish, French, and Latin. The fourth year of Spanish, French, and Latin are at the AP or IB level. The purchase of workbooks or supplemental texts is required in foreign language courses. Two years of the same language are required for the Advanced Academic Diploma. The department recommends that a student have at least a* ***C*** *average in the previous language study to successfully progress to the next level. Spanish 1/French 1 students at the middle school should continue to the next level and enroll in Spanish 2/French 2 at the high school.***M A T H E M A T I C S**Pre-IB and Pre-AP courses are designations used by Hoover City Schools and are not authorized by the International Baccalaureate Organization or the College Board.**Hoover City Schools requires that each student complete** **four years of high school math.**Example Math Course Sequence Pathways:(Other combinations are possible)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Minimum(Not Adv. Academic) | Not Adv. Academic | Min. Adv. Academic | Min. Adv. Academic | Min. Adv. Academic | Most Common | Above Average | Above Average | Highest |
| Algebra IA /Algebra IB  | Algebra 1 | Algebra 1 | Algebra IA /Algebra IB | Algebra IA /Algebra IB | Algebra 1 | Geometry | Pre-AP Algebra I | Pre-AP Geometry |
|  Geometry, Principles | Geometry | Geometry | Geometry | Geometry | Geometry | Algebra II with Trigonometry | Pre-AP Geometry | Pre-AP Algebra II w/ Trigonometry |
| Algebraic Connections | Algebraic Connections | Algebra II with Trigonometry | Algebraic Connections | Algebra II with Trigonometry | Algebra II with Trigonometry | \*Precalculus | Pre-AP Algebra II w/ Trigonometry | \*Pre-AP Precalculus |
| Algebra II, Non-Trigonometry | Algebra II, Non-Trigonometry | Discrete Mathematics | Algebra II with Trigonometry | Discrete Mathematics | \*Precalculus | \*Calculus | \*Pre-AP Precalculus | \*AP Calculus or \*AP Statistics |

\*Graphing Calculator Required**Algebra I 210005***Grade Level: 9**Prerequisite: 70% in 8th grade Math and Teacher recommendation*Course Video: <http://www.youtube.com/watch?v=P-hIisbMny4> Algebra I introduces algebraic concepts dealing with the real number system, its properties and operations. Emphasis is on factoring, graphing linear equations, simplifying and evaluating expressions, performing operations on polynomials and rational expressions, inequalities, equations, systems of equations, quadratic and rational equations. Other topics include probability and statistics, functions, and relations**Algebra I, Pre-AP (+.25 grade weight) 210007** *Grade Level: 9**Prerequisite: 90% in 8th Grade Math and Teacher recommendation*Course Guide: <http://youtu.be/VTFDwOay4hk> Pre-AP Algebra I uses advanced algebraic concepts dealing with the real number system, its properties and operations. Emphasis is on factoring, graphing equations, simplifying and evaluating expressions, performing operations on polynomials and rational expressions, inequalities, equations, systems of equations, quadratic and rational equations. Other topics include probability and statistics, functions, and relations. Complex algebraic concepts will be explored and emphasized.**Algebra 1-A (2 consecutive periods) 210008** *Prerequisite: below 70% in 8th grade math and Teacher recommendation*Course Video: <http://www.youtube.com/watch?v=BxEBjfLTRhA> Algebra 1-A is a one semester class that will earn one math credit. This courseteaches simultaneous concepts that are being introduced and mastered in the first semester of regular Algebra I classroom. The course provides the student with more extensive instruction on course content and provides additional opportunities for the delivery of instructional content.**Algebra I-B (2 consecutive periods) 210009** *Grade Level: 9**Prerequisite: Algebra I-A and Teacher recommendation*Course Video: <http://www.youtube.com/watch?v=BxEBjfLTRhA> Algebra 1-B is a one semester class that will earn one math credit. This courseteaches simultaneous concepts that are being introduced and mastered in the second semester of regular Algebra I classroom. The course provides the student with more extensive instruction on course content and provides additional opportunities for the delivery of instructional content.**Geometry 210010***Grade Level: 9-11**Prerequisite: EXPLORE Math score 17+ or 70% in Algebra 1 and Teacher recommendation*Course Video: <http://www.youtube.com/watch?v=rRtDul1G67Q> Geometry presents a logical development of the basic concepts and understanding of Euclidean geometry. Included in this course are topics from plane geometry, solid geometry and coordinate geometry. The geometry course requires students to make conjectures and use reasoning to validate or negate these conjectures. Concepts and skills involve deductive reasoning taught through the use of direct and indirect proofs. Topics include angles, parallel lines, triangles, special right triangles, Pythagorean Theorem, polygons, circles, area, volume, transformations.**Geometry, Principles 2100101** *Grade Level: 10**Prerequisite: Algebra I-B or Algebra I and Teacher recommendation*Course Video: <http://www.youtube.com/watch?v=Z8zDgICXaa0> This course does NOT meet the graduation requirements for the Advanced Academic Endorsement of the Alabama High School diploma. Foundations of Geometry presents a logical development of the basic concepts and understanding of Euclidean geometry with an emphasis on practical application rather than formal proof. Included in this course are topics from plane geometry, solid geometry and coordinate geometry. The geometry course requires students to make conjectures and use reasoning to validate or negate these conjectures. Topics include angles, parallel lines, triangles, special right triangles, Pythagorean Theorem, polygons, circles, area, volume, transformations.**Geometry, Pre-AP (+.25 grade weight) 210012***Grade Level: 9-10**Prerequisite: EXPLORE Math score 19+ or 90% average in Algebra I and Teacher recommendation*Course Video: <http://www.youtube.com/watch?v=W20FtBoAinA> This course covers the same topics as geometry with a more in-depth and challenging analysis of the major concepts and more emphasis on theory. Logical thinking is developed through concentration on direct and indirect proofs. This course is geared to the motivated student who plans to enroll in a Math Advanced Placement course in the future. The title “Pre-AP” designates a preparatory course for AP work, not a College Board Advanced Placement course.**Geometry, Math Team (+.50 grade weight) 2100125***Prerequisite: Algebra 1**Grade Level: 9* *Required Signature: Teacher Recommendation**Fee: Fundraiser/$150*Course Selection: <http://www.youtube.com/watch?v=sCFB0P0V7Rs> This course consists of an enriched and accelerated geometry course. First semester content includes most of the standard topics for the year excluding formal proofs. Short cuts, formulas, and test taking skills are supplemental. Second semester includes proofs, analysis, problem solving techniques, and introductory Algebra 2 topics. ***See math team info below****.***Algebraic Connections 210015***Grade Level: 11-12**Prerequisite: Completion of Algebra I and Geometry and Teacher recommendation*Course Video: <http://www.youtube.com/watch?v=nKp5i5ECZBw> This course provides students a bridge between Geometry and Algebra II while teaching them to make responsible financial and economic decisions. Topics include banking, personal budgets, credit purchases, direct and inverse variation, exponential growth and decay, rates of change, trigonometric ratios, arc length, sector area, data analysis and probability. Algebraic Connections is designed primarily for students who have earned credits in both of the required courses, but who also need additional work in these subjects *before taking Algebra II.* **Algebra II with Trigonometry 210017***Grade Level: 10-12**Prerequisite: EXPLORE Math Score 17+ or 70% average in Algebra I and Geometry and Teacher recommendation*Course Video: <http://youtu.be/S7NmCISzzyo> Algebra II with Trigonometry is required for all students seeking the Alabama High School diploma with Advanced Academic Endorsement. Credit cannot be awarded for both Algebra II with Trigonometry and Algebra II Non-Trigonometry. Seniors enrolling in Algebra II with Trigonometry should have already passed the AHSGE. This course focuses on problem solving skills. Topics include complex numbers, algebraic expressions, linear equations, inequalities, systems of equations, matrices, coordinate geometry, radicals, absolute value, data analysis and probability, deriving the quadratic formula, applying quadratic and trigonometric functions to real life problems, defining the six trigonometric functions, coordinates on the unit circle, and the reciprocals of other functions. Students will analyze families of functions (linear, inverse variation, quadratic, exponential, logarithms, and polynomials) and perform operations on functions.**Algebra II, Non-Trigonometry 210016***Grade Level: 12 only**Prerequisite: Geometry and Teacher recommendation*Course Video: <http://youtu.be/PZMLzZiQbDk> This course does NOT meet the graduation requirements for the Advanced Academic Endorsement of the Alabama High School diploma because it does not include an in-depth study of trigonometry. Topics include complex numbers, algebraic expressions, linear equations, inequalities, systems of equations, matrices, coordinate geometry, radicals, absolute value, data analysis and probability. Students will analyze families of functions (linear, inverse variation, quadratic, exponential, logarithms, and polynomials) and perform operations on functions.**Algebra II with Trigonometry, Pre-AP (+.25 grade weight) 2100171***Grade Level: 10-12**Prerequisite: EXPLORE Math Score 19+ or 90% average in Algebra I and* *Geometry or an 85% average Pre-AP Geometry and Teacher recom­mendation*Course Video: <http://www.youtube.com/watch?v=EV3m2-Ufab0&feature=youtu.be> Pre-AP Algebra II with Trigonometry involves a review of the operations of the real number system, solutions of linear equations and inequalities in two and three variables, properties of polynomials, complex numbers, and rational expressions. The concepts of relations and functions are developed emphasizing linear, quadratic, exponential, logarithmic, and trigonometric functions. Sequences and series, conic sections, probability and matrix algebra are included in this course. Concepts related to statistical experiments are also a part of Pre-AP Algebra II. PreAP Algebra II is an analytical and rigorous approach to Algebra II concepts to prepare students for Advanced Placement in future math courses.**Algebra 2 W/Trigonometry, Math Team (+.50 grade weight) 2100175***Prerequisite: Geometry Pre-AP or Geometry Team**Grade Level: 10* *Required Signature: Teacher Recommendation**Fee: Fundraiser/$150*This course covers the same topics as Algebra 2 with Trigonometry, Pre-AP with a more in-depth analysis of major concepts, more emphasis on theory, and covers topics from Precalculus. ***See math team info below***.**Discrete Mathematics 210018***Grade Level: 11-12Prerequisite: Algebra II with Trigonometry and Teacher recommendation*Course Video: <http://www.youtube.com/watch?v=FTeObw0Ja6o> Discrete Mathematics expands upon the topics of matrices, combinational reasoning, counting techniques, algorithms, sequences, series, and their applications. Students are expected to work in both individual and group settings to apply problem-solving strategies and to incorporate technological tools that extend beyond traditional instructional practices. **Precalculus 210020***Grade Level: 11-12**Prerequisite: PLAN Math score 19+ or 80% average in Algebra II with* *Trigonometry and Teacher recommendation*Course Video: <http://www.youtube.com/watch?v=6BopctqEbpA> Precalculus is designed to provide the necessary prerequisites for the successful completion of college mathematics. Algebraic, graphical, numerical and verbal analyses are incorporated during investigations of the precalculus content standards. Parametric equations, polar relations, vector operations, conic sections, and limits are introduced. Content for this course also includes an expanded study of polynomial and rational functions, trigonometric functions, and logarithmic and exponential functions. **Precalculus, Pre-AP (+.25 grade weight) 2100201***Grade Level: 11-12**Prerequisite: PLAN Math score 22+ or 90% average in current Pre-AP Algebra II with Trigonometry course and Teacher recommendation*Course Video: <http://www.youtube.com/watch?v=6BopctqEbpA> Pre-AP Precalculus is designed as an in-depth study of conic sections, polynomial, logarithmic, exponential, logistic, rational, and trigonometric functions, trigonometric identities, vectors, complex numbers, polar graphs, parametric equations, sequences, series, matrices, probability, and statistics. The course culminates with an introductory study of calculus involving limits and derivatives. The intensity and pace of this course **is more rigorous** than previous Pre-AP courses.**IB PRECALCULUS** **2100202***Prerequisite: See criteria under IB Program**Fee: $15*IB Course Video: IB: <http://bitly.com/HHSIBshow> This course covers the Pre AP Precalculus curriculum in addition to producing portfolio work for the IB diploma. Students advance from this course into AP Calculus where they continue to prepare for both AP and IB examinations. Students may also enroll in IB Precalculus Team in lieu of this course. **IB PRECALCULUS/TEAM 2100204***Fee: $15*IB Course Video: IB: <http://bitly.com/HHSIBshow> Prerequisite: Acceptance into the IB Program OR teacher recommendation, Signature requiredThis course covers the same topics as IB Precalculus with a more in-depth analysis of major concepts, more emphasis on theory, and additional topics from Calculus. In addition, students will produce portfolio work for the IB diploma. Students advance from this course into AP Calculus where they prepare for both AP and IB examinations. Enrollment in this course is not limited to IB students. IB Precalculus Team students are required to participate in fundraising equivalent to $150. See math team information in the Math section of this course selection guide for more details on the team requirements. **IB MATH STUDIES (+1.00 grade weight) 210028***Grade Level:11-12 Prerequisite: Algebra 2/Trig**Fee: $65 for IB Diploma student, $85 for certificate*IB Course Video: IB: <http://bitly.com/HHSIBshow> IB Math Studies provides a structured introduction to areas of emphasis in most postsecondary studies of mathematics in preparation for IB assessments. Topics covered include Number Properties and Algebra, Set and Logic, Probability and Statistics, Functions, Geometry and Trigonometry, and Introductory Differential Calculus. To assist students with numerical and graphical analysis, the use of advanced technological tools is required.**Calculus 210023***Grade Level: 12**Prerequisite: PLAN Math score 22+ or Precalculus and Teacher recommendation*Course Video: <http://www.youtube.com/watch?v=BIn-THv0Hho>  <http://www.youtube.com/watch?v=vPGdNAyyswA> Calculus is the study of limits, differentiation, and integration. Students will explore all types of functions and their applications in-depth. There is extensive use of graphing calculators in this course.**AP Calculus, AB (+1.00 grade weight) 210025***Grade Level: 12**Prerequisite: PLAN Math score 26+ 85 % average in Pre-AP Precalculus and Teacher recommendation* *AP Exam Fee: $85*Course Video: <http://www.youtube.com/watch?v=vPGdNAyyswA> Advanced Placement Calculus AB is the study of limits, differentiation, integration, and their applications. Students will explore all types of functions both with and without the graphing calculator. This course is designed to prepare students to take the Advanced Placement examination at the AB level in the spring which provides the opportunity to earn up to **one semester** of credit in college calculus. *All students will be required to take the AP exam in May.***AP Calculus, BC (+1.00 grade weight) 210026***Grade Level: 12**Prerequisite: PLAN Math score 26+ 90% average in Pre-AP Precalculus and Teacher recommendation* *AP Exam Fee: $85*Course Video: <http://www.youtube.com/watch?v=vPGdNAyyswA> Advanced Placement Calculus BC is the study of limits, differentiation, integration, and their applications. Students will explore all types of functions both with and without the graphing calculator. This course is designed to prepare students to take the Advanced Placement examination at the BC level in the spring which provides the opportunity to earn up to **two semesters** of credit in college Calculus. This course moves at a faster pace than AP Calculus AB, covers AP Calculus AB topics in more detail, and includes additional topics (such as sequences and series) not included in the AP Calculus AB curriculum. *All students will be required to take the AP exam in May.***AP Statistics (+1.00 grade weight) 210027***Prerequisite: 85% average in Pre AP Algebra II with Trigonometry or a 90% in* *Algebra II with Trigonometry and Teacher recommendation**Grade Level: 11-12**AP Exam Fee: $85*Course Video: <http://www.youtube.com/watch?v=ttiLkKZGL6o> Advanced Placement Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course includes four broad conceptual themes: exploring data, planning a study, anticipating patterns, and statistical inference. Students who successfully complete the course and AP examination may receive credit, advanced placement, or both for a one-semester introductory college statistics course. This course requires mastery of a graphing calculator. A TI-89 is preferred. *All students will be required to take the AP exam in May.* **MATH TEAM, COMPREHENSIVE (+.50 grade weight) 210032***Prerequisite: Must be enrolled in IB Precalculus Team, AP Calculus BC, or have completed AP Calculus BC**Grade Level: 11-12**Required Signature: Teacher Recommendation**Fee: Fundraiser/$150*This is an elective math course taken in addition to a required math course of precalculus or calculus. Topics covered are trigonometry, number theory, matrices, discrete math, analytic geometry, logic, probability, binomial theorem, conic sections, algebraic functions, sequences and series, derivatives, limits, and exponential and logarithmic functions. See math team info below.**HOOVER HIGH SCHOOL MATH TEAM**The math team courses (Geometry Team, Algebra 2 w/Trig Team, IB Precalculus Team, and Comprehensive Math Team) prepare students to com­pete in mathematics tournaments at local, state, regional, and national levels. Please consider the following criteria for success and satisfaction:* from 3 to 9 Saturday tournaments starting in November
* grasps mathematical topics rapidly (1st or 2nd time the teacher explains it)
* willing to try a "different" way to solve a problem
* intuitive in math (can get the answer but may not know exactly how)

**PHYSICAL EDUCATION/HEALTH****PHYSICAL EDUCATION/ LIFE COURSE**  **240002**Course Video: <http://www.youtube.com/watch?v=eGqNurlyWSw> All 9th graders will be required to take the LIFE course. LIFE stands for Lifelong Individualized Fitness Education. This course provides students with the opportunity to develop an individual level of fitness, acquire knowledge of fitness concepts, and understand the significance of a healthy lifestyle. **PHYSICAL EDUCATION, ATHLETIC LIFE COURSE, BOYS**  **2400021**Course Video: <http://www.youtube.com/watch?v=0zOmxRqYNz8&feature=youtu.be> This course is for students who are on a Hoover athletic team. The course offers advanced skills in strength training and conditioning as well as covering the concepts required by the state course of study for the LIFE course. This course requires a signature and permission of the instructor/coach.**PHYSICAL EDUCATION, ATHLETIC LIFE COURSE, GIRLS**  **2400022**Course Video: <http://www.youtube.com/watch?v=0zOmxRqYNz8&feature=youtu.be> This course is for students who are on a Hoover athletic team. The course offers advanced skills in strength training and conditioning as well as covering the concepts required by the state course of study for the LIFE course. This course requires a signature and permission of the instructor/coach**TEAM SPORTS/RECREATIONAL ACTIVITIES**  **240003***Fee: $15*Course Video: <http://www.youtube.com/watch?v=wP2oSF4irwQ> This course offers an opportunity to participate in a wide variety of team sports, lifetime skills, and recreational activities.**STRENGTH AND CONDITIONING, NON-ATHLETIC BOYS**  **2400031***Fee: $15.00 (Not for members of athletic teams)*Course Video: <http://www.youtube.com/watch?v=QzVfCK3F9ak> This course acquaints students with the basic knowledge and skills in strength and conditioning that can be used to enhance fitness pursuits today as well as in later life. The goals of this class are to improve muscular strength, muscular endurance, flexibility, cardiovascular fitness as well as enhance body image.**STRENGTH AND CONDITIONING, NON-ATHLETIC GIRLS** **2400032***Fee:* $15.00 *(Not for members of athletic teams)*Course Video: <http://www.youtube.com/watch?v=uwfEvjcsSf0> This course acquaints students with the basic knowledge and skills in strength and conditioning that can be used to enhance fitness pursuits today as well as in later life. The goals of this class are to improve muscular strength, muscular endurance, flexibility, cardiovascular fitness as well as enhance body image.**10–12th GRADE HEALTH COURSES****HEALTH EDUCATION**  **250002**Course Video: <http://www.youtube.com/watch?v=JZeSZodM0AM> Health Education is a one-semester REQUIRED course. It is designed to include recent and reliable information on the promotion of wellness, the reduction of health risks, the prevention of disease, and the management of health problems.**HEALTH BLENDED ONLINE 2500021**Course Video: <http://youtu.be/0_B4aQ6uGUA> **SPORTS MEDICINE**  **2500031***Fee: $15*Course Video: <http://www.youtube.com/watch?v=NboTCluIGZs> Sports Medicine provides students with basic knowledge of the profession of athletic training. Topics include: athletic trainer and the sports medi­cine team; physical conditioning and training; nutritional considerations for athletes; protective sports devices; psychological stresses due to injury, emergency procedures; environmental consideration in sports; and taping and bandaging. In addition to classroom work, students will be required to complete hours outside of class supervised by a certified athletic trainer."**10–12th GRADE ATHLETIC COURSES****Zero Period 24000310** Varsity Football,Wrestling, Varsity Boys Basketball, Varsity Baseball**First Period 24000311** Girls Soccer, JV Boys Basketball, JV Girls Basketball, JV Volleyball **Second Period 24000312** JV Baseball**Sixth Period 24000316** Varsity Softball**Seventh Period 24000317** Boys Soccer, Varsity Volleyball, JV Football, VG Basketball,Cheerleading,Track (semester,) Cross Country (semester,) Golf (semester,) Tennis (semester.)  HOOVER HIGH SCHOOL - PHYSICAL EDUCATION/HEALTH PAGE 27All Students MUST take the Required Physical Education LIFE Course prior to taking other PE Courses.Students can select **ONLY TWO** units of Physical Education for a year. Students in Athletics may choose one other physical education unit.**PE UNIFORMS : $15.00****Refer to the Hoover City Schools Handbook for HHS and NCAA eligibility.****S C I E N C E****Pre-IB and Pre-AP courses are designations used by Hoover City Schools and are not authorized by the International Baccalaureate Organization or the College Board.****BIOLOGY 220011***Grade Level: 9*Course Video: <http://youtu.be/eY5SsYtAd28> Biology introduces students to the basic principles of life such as cellular organization, genetics, and comparative structures in various phyla. This course is intended to meet the science literacy requirements of the Biology core curriculum as defined by the state science course of study. This course also requires laboratory work written in formal laboratory reports as well as an independent research-based project component. **BIOLOGY, Pre-AP 220013***Grade Level: 9**Prerequisite: EXPLORE Science score 22+, Reading score 17+**Laboratory Fee: $25*Course Video: <http://youtu.be/eY5SsYtAd28> The Biology, Pre-AP course is designed to prepare students for success in Advanced Placement science courses. In preparation for these courses, pre-AP biology students will be required to complete reading assignments **outside of class** related to scientific articles and/or scientific literature and complete independent research-based projects each nine weeks. Students should be good readers with strong comprehension skills. Students will also be required to write formal lab reports and analyze scientific data throughout the course. Finally, a major form of assessment in the pre-AP classroom will be writing essays to explain scientific concepts in preparation for the Advanced Placement examinations. ***The title Pre-AP designates a preparatory course for AP work, not a College Board Advanced Placement course.*****ACTIVE PHYSICAL SCIENCE 220051***Grade Level: 10*Course Video: <http://youtu.be/rXwpokVF2jI> This course is an inquiry-based course that covers the introductory principles of matter and energy. Intended to prepare students to proceed to high school Chemistry, this course serves to reinforce necessary math skills while also giving opportunities to conduct hands-on experiments.**chEmiSTRy 220061***Grade Level:  10 -12   Laboratory Fee:   $25**Prerequisite:  Biology*Course Video: <http://youtu.be/rXwpokVF2jI> The General Chemistry course is designed as a college- prep course to follow successful completion of Biology. This course introduces students to the theoretical principles behind inorganic chemical concepts.  The course covers advanced chemical principles and mathematical problems that will fully prepare a student for further Chemistry study at the college level. It is highly recommended that sophomores have at least a B average in previous math and science courses (and an Explore score of 18+/15+). For juniors and seniors, the recommendation is a co-requisite of Algebra 2. Chemistry requires that students come to the course with the ability to perform independently perform algebraic operations and solve word problems. This course requires laboratory work.**chEmiSTRy, PRE-AP 220063** Grade Level:  10&11 *Prerequisite:  EXPLORE Science score 19+ and Math score 17+, Pre-AP math and science in previous year, recommended A average**Corequisite:  Pre-AP Geometry or Algebra 2 w/ Trig Laboratory Fee:  $25*Course Video: <http://youtu.be/rXwpokVF2jI> In addition to the above chemistry description, this course is designed to prepare students for success in Advanced Placement science courses. In preparation for these courses, Pre-AP chemistry students will be required to complete formal lab reports and analyze scientific data throughout the course.  An in-depth study of chemical concepts will be covered throughout the year. Students need to be independent learners, readers with very high ability to comprehend difficult concepts, the ability to work at afast pace, and scholars who wish to take two AP science courses during the rest of their high school career. It is highly recommended that students have at least an A average in previous pre-AP math and pre-AP science courses.**INTEGRATED CHEMISTRY & PHYSICS, Pre-AP 2200631***Grade Level: 10 & 11**Recommendation: This course allows students to acquire the science prerequisite for AP Chemistry, AP Biology, AP Physics B, IB Biology, IB Chemistry, and any advanced science electives that have chemistry as a prerequisite. This course should only be taken by students who wish to take AP science courses or be in the IB Program.**Prerequisite: EXPLORE Science score 24+ and Math score 21+, Pre-AP Biology, Pre-AP Geometry**Corequisite: Pre-AP Algebra 2 w/Trig Laboratory Fee: $25*Course Video: <http://youtu.be/rXwpokVF2jI> This course is a study of chemistry as a microcosm of physics. The majority of the course will focus on the fundamental theories and principles of chemistry, but will include the study of basic physics theories and principles that describe the interactions of matter and energy, the basic forces that exist in nature and the application of the conservation laws (as they apply to energy, momentum and matter). Pre-AP Integrated Chemistry and Physics is designed for those students who possess exceptional mathematical and problem-solving skills as well as outstanding expository writing skills. Students who take this course need to be independent learners, readers with very high ability to comprehend difficult concepts, and scholars who wish to be in the IB Program, the Engineering Academy, or take at least two AP science courses during the rest of their high school career. This course will focus on laboratory activities and problem solving.**SCIENCE ELECTIVES****EARTH SCIENCE 220084***Grade Level: 11 - 12**Prerequisite: Active Physical Science**Special Requirements: Internet access is strongly encouraged.*Course Video: <http://www.youtube.com/watch?v=KxVBrnM-fMk> This course includes the subjects of Geology, Meteorology, Oceanography and Astronomy for the purpose of helping students understand how the surface of the Earth, the atmosphere, and the oceans work together, as well as the relationship between our Earth and the rest of the universe. This course requires laboratory and computer work.**MARINE SCIENCE 220040***Grade Level: 11 - 12**Prerequisite: Biology**Laboratory Fee: $25*Course Video: <http://youtu.be/dELKBdHVytU> Marine Science extends the study of Biology to the living and nonliving factors of the ocean realm, which are explored through various marine ecosystems such as coral reefs, sandy shores, deep sea, open ocean, and kelp forests. Exploration of these ecosystems includes investigating the successful adaptations of marine life (fish/sharks, mammals, reptiles, birds, invertebrates, and plants) to withstand the non-living elements (currents, tides, ocean seafloor, and seawater composition) that form each ecosystem. The impact of humans on marine ecosystems and the necessity for marine conservation are also examined. Laboratory investigations, use of touch tank and aquariums, and other hands-on activities are used to enhance understanding of topics. Students may also have an opportunity to participate in an optional field trip to an aquarium.**ENVIRONMENTALSCIENCE 220029***Grade Level: 11 - 12**Prerequisite: Biology**Laboratory Fee: $25*Course Video: <http://www.youtube.com/watch?v=TyFn1cTLwUg> This course extends the study of Biology to focus on the living and nonliving factors which affect our environment. We consider the impact of humans at local, national, and global levels. Current local and world issues will be integrated into the curriculum. Students will work outside of the school building to collect and analyze phenomena in the Cahaba River watershed woods that surround the school. In addition to class work, laboratory work, scientific inquiry, and fieldwork investigations, this course requires fieldwork in a variety of settings and weather conditions. We will investigate the fascinating natural world around HHS as a living laboratory.**SCIENCE – ADVANCED ELECTIVES\*****PHYSICS 220071***Grade Level: 11 or 12**Prerequisite: Chemistry, PLAN Science score 24+ and Math score 21+**Laboratory Fee: $25*Course Video: <http://youtu.be/w0xaAuDQ1mI> This course covers the principles of motion, matter, and energy as related in the Physics core curriculum of the state science course of study. In addition to this core, advanced Physics principles and mathematical problems are applied which will fully prepare students for further Physics study at the college level. The course employs mathematical analysis, laboratory experiments, and computer aided investigations to lead students to an understanding of the basic laws of nature as presently understood by science. This course requires laboratory work.**HUMAN ANATOMY & PHYSIOLOGY 220026***Grade Level: 11 - 12**Prerequisite: Biology and Chemistry with at least a B average in both.**Laboratory Fee: $25*Course Video: <http://www.youtube.com/watch?v=GJ7SwX3vLNA> This course includes a study of the organization and functions of the systems of the human body, including how they respond to the external environment and work together to maintain homeostasis. Students will learn the anatomical components and basic physiological processes of each system of the body. This course incorporates cooperative lab experiences, anatomical dissections, and some technology-based investigative work. Substantial reading and independent study outside of class are required of each student.**GENETICS AND BIOTECHNOLOGY 220017***Grade Level: 11-12**Prerequisites: Biology and Chemistry**Laboratory Fee: $25*Students will participate in the application of modern genetics and biochemistry using many of the latest techniques and materials that are used in research facilities today. Topics include cancer, cloning, The Human Genome Project, genetically modified foods, and CSI. Come learn the science behind today's news headlines and see what's happening in one of the world's fasted growing science fields. This course requires laboratory work.**FORENSIC SCIENCE 220034***Grade Level: 11-12**Prerequisite: Biology & Chemistry or Pre-AP Integrated Chemistry & Physics with at least a B average (or permission from instructor). Laboratory Fee: $25*Course Video: <http://www.youtube.com/watch?v=mBxUB_R3F9s> Be a CSI guy, and figure out not only “who-done-it,” but also find out how it’s really done. This is one of the fastest growing areas of science opportunities out there with dozens of different directions in which to pursue a career. In this course you will use investigative techniques such as fingerprinting, DNA, toxicology, bones, trace evidence of hair and fiber, tool marks and others to analyze and solve crimes. You will be incorporating the fields of Biology, Chemistry, Anatomy and Physics using many of the lasted techniques and materials that are used in research facilities and by Crime Scene Investigators today. This course incorporates extensive laboratory work.**IB EN**V**IRONMENTA**L **S**Y**STEMS AN**D **SOCIETIES 220033***Grade Level: 11 & 12**Prerequisites: One year of Biology & Chemistry or Pre-AP Integrated Chemistry and Physics with at least a B average in each. Algebra 2 with a B average. (Or permission from the instructor, Ort.) Recommendation from other previous science teachers.**Laboratory Fee:$25**Special Requirements: Signature of instructor (Ort)*Course Video: <http://www.youtube.com/watch?v=Q_wei1UeTQo> IBES is a Group 4 IB elective taught at the Standard Level. As such, the course is open to any student meeting the course requirements; **students do not have to be in the IB program** to take this course. IBES offers students an exciting opportunity to extend their biological and physical sciences into an in-depth analysis of the ecosystems. . In this course you will investigate and discuss important current issues. In this class you will use science and other subjects to connect to the real world. Using a systems approach, students will develop holistic research models that document the local ecosystem trends. In addition to ecological principles, scientific investigations, policy management, and human impacts similar to topics in AP Environmental Science, this course seeks to develop skills in empirical, quantitative, objective data collection and research design in a systematic format. Students will engage in long and short term research guided by the instructor and an advisory board of mentors. The student will be able to pursue areas of interest as well as required studies. The student should expect extensive field/ lab work with rigorous analytical reports. *Students may not receive credit for both AP Environmental Science and IB Environmental Systems and Societies.***SCIENCE ADVANCED PLACEMENT COURSES****BIOLOGY, ADVANCED PLACEMENT 220014***Grade Level: 11 or 12**Recommendation: Students who desire the challenge of pursuing college course work at the high school level**Prerequisite: PLAN Science score 26+ and Math score 24+, Biology and Chemistry with at least an 85 average in both**Laboratory Fee: $25 AP Exam Fee: $85**Special Requirements: Instructor's signature (Woodruff) and current science teacher's recommendation are required*Course Video: <http://www.youtube.com/watch?v=q8NH67USNY8> This course covers the curriculum associated with a college level Biology program. The course involves extensive reading and study outside of normal class time. The overall expectations of the course are aimed at preparing students to take the Advanced Placement examination at the end of the year. This course requires extensive laboratory work with detailed formal lab reports. Summer reading assignment required.**CHEMISTRY, ADVANCED PLACEMENT 220064***Grade Level: 11 or 12, one(1) full period a day and two (2) full lunch/study periods per week. This class is one(1) science credit.**Recommendation****:*** *Students who desire the challenge of pursuing college course work at the high school level**Prerequisite****:*** *PLAN Science score 27+ and Math score 26+, Chemistry or Pre-AP Integrated Chemistry or Physics with at least a B average.**Laboratory Fee****:*** *$25 AP Exam Fee: $85**Special Requirement****:*** *Instructor's signature (Rosenstiel) and current science teacher's recommendation is required*Course Video: <http://youtu.be/CziZXKzX_C0> This course covers the curriculum associated with a college level Chemistry program. Students should be advised that this course involves complex material and is covered at a pace of at least one and a half times the normal pace of an honors course and involves extensive study and problem solving outside of normal class time. The overall expectations of the course are aimed at preparing students to take the Advanced Placement examination at the end of the year. This course requires extensive laboratory work, with detailed formal lab reports. Summer assignment required.**ENVIRONMENTALSCIENCE, ADVANCED PLACEMENT 220032***Grade Level: 11 or 12 , one (1) period**Recommendation: Students that desire the challenge of integrating the concepts and practices of many sciences as applied to world ecosystems and policies at college level.**Prerequisites: One Year of Biology, Chemistry, or Integrated Chemistry Physics with at least a B average. Algebra 1 with at least a B average.**Laboratory Fee: $25 AP Exam Fee: $85**Special Requirements: Signature of AP Environmental teacher (Ort).*Course Video: <http://www.youtube.com/watch?v=Q_wei1UeTQo> This course extends the study of Biological and Physical sciences. In this course you will investigate and discuss important current issues. In this class you will use science and other subjects to connect to the real world. It also integrates critical analysis and writing skills. APES focuses on the interrelationships of the natural world and analyzes the human induced environmental problems in our area. APES examines alternative solutions for those problems on an advanced level by requiring students to investigate international, state, and local policies that affect the environment. Long term investigations and projects require an additional investment of time beyond the class and will involve work in the field at the Cahaba River watershed. Expectations of the course are designed to prepare students to take the Advanced Placement examination at the end of the year. Extensive lab/fieldwork required. Summer assignment required. *Students may not receive credit for both AP Environmental Science and IB Environmental Science***PHYSICS, B level, ADVANCED PLACEMENT 220074***Grade Level: 11 or 12, one (1) period**Recommendation: Students who desire the challenge of pursuing college course work at the high school level**Prerequisite: PLAN Science score 27+ and Math score 26+, Physics, Pre-AP Integrated Chemistry and Physics, Algebra 2 w/Trig or permission of instructor (J. Johnson).**Corequisite: Pre-AP Pre-calculus Laboratory Fee: $25 AP Exam Fee: $85**Special Requirements: Instructor’s signature (J. Johnson) and current science teacher’s recommendation are required*Course Selection: <http://www.youtube.com/watch?v=WOkKCPtlrbo> This is a college level course designed to give the student an understanding of physical theory and principles. The subject matter includes the interaction of matter and energy, fluid mechanics, thermal physics, electricity, magnetism, and nuclear and atomic physics. TO be successful, students must be serious and have exceptional mathematics and problem-solving skills as well as outstanding expository writing skills. This course is designed for the student who enjoys a challenge, who is an independent learner, and who intends to select careers in science, engineering, or the applied sciences. Extensive study and problem solving outside of normal class time is required. Students are expected to work at a very high level and will be required to take the Advanced Placement examination at the end of the year.**PHYSICS, C Level***,* **ADVANCED PLACEMENT 220075***Grade Level: 12, One (1) period**Recommendation: Students who desire the challenge of pursuing college coursework**Prerequisite: Pre-calculus and Physics or Pre-AP Integrated Chemistry and Physics with at least a B average in both or permission of Instructor.**Corequisite: AP Calculus, AB or BC level**Laboratory Fee: $25 AP Exam Fee (2 Exams): $170**Special Requirements: Instructor’s signature (Conner) and current math and science teacher’s recommendation is required*Course Video: <http://www.youtube.com/watch?v=sJRZbCqK7NY&feature=youtu.be> AP Physics C is a second-year, calculus-based Physics program based on the first two upper level introductory college Physics courses. The first semester covers Mechanics, including translational and rotational motion. The second semester covers Electricity & Magnetism. The course involves extensive study and problem solving outside of normal class time. The overall expectations of the course are aimed at preparing students to take both calculus-based Advanced Placement Physics examinations at the end of the year. This course requires laboratory work.**IB EN**V**IRONMENTA**L**S**Y**STEMS & SOCIETIES 220033***Grade Level: 11 & 12*IB Course Video: <http://bitly.com/HHSIBshow> See Course Description under Science Advanced Electives.**SCIENCE IN**D**EPEN**D**ENT RESEARCH 999468***Grade Level: 11-12 one period (any period during the day)**Recommendation: Students that wish to apply scientific methods and skills to the analysis of HHS campus and surrounding areas using the techniques of applied field research.**Prerequisites: An AP or IB science course, solid performance in Algebra 2 w/Trig or above, strong recommendation of science teachers, proven abili­ties of writing skills and self-starting, a signature from instructor (Ms. Ort)**Fee: $25*Course Video: <http://youtu.be/UfLTUt-TAt8> Based in the biological sciences but drawing on all science skills and research, as well as science and its interactions with public policy, this course explores current topics of environmental issues. The student will develop long term environmental monitoring projects of the HHS campus. We will explore and use many tools to track data gathered by students and teachers. Students will be expected to submit peer reviewed papers. The course will involve class work, field work, independent study and design, and laboratory work. Students will participate in projects with local colleges.**SCIENCE – INTERNATIONALBACCALAUREATE COURSES\***\*The International Baccalaureate Courses for science have a Chemistry prerequisite and, therefore, meet the requirements within Hoover City Schools for an Advanced Academic Diploma.**INTE**G**RATE**D **CHEMISTR**Y **AN**D **PH**Y**SICS, PRE-AP 2200631***Grade Level: 10 & 11*Course Video: Course Video: <http://youtu.be/rXwpokVF2jI> See Complete Course Description under Science **IB CHEMISTR**Y **11 220065***Prerequisite: Acceptance in the IB Program**Meeting Times: One (1) full period a day, and two(2) full lunch/study periods per week. This class is one(1) science credit.**Laboratory Fee $25*Course Video: <http://youtu.be/GySTvwQj5tU> This course introduces college-level Chemistry topics which are covered in the Higher Level IB examination. Emphasis is placed on extensive labora­tory experiences that apply scientific knowledge.**IB CHEMISTRY12 2200651***Prerequisite: IB Chemistry 11 and retention in the IB Program**Meeting Times: One (1) full period a day, and two(2) full lunch/study periods per week. This class is one(1) science credit.**Laboratory Fee: $25*Course Video: <http://youtu.be/GySTvwQj5tU> This course extends the study of college-level Chemistry topics which are covered in the Higher Level IB examination. Emphasis is placed on extensive laboratory experiences that apply scientific knowledge.**IB EN**V**IRONMENTA**L**S**Y**STEMS & SOCIETIES 220033***Grade Level: 11-12*Course Video: <http://www.youtube.com/watch?v=Q_wei1UeTQo> See complete course description on page 15 under Science Advanced Electives**SOCIAL STUDIES****WORLD HISTORY SINCE 1500, 9TH GRADE 230013***Grade Level: 9*Course Video: <http://bit.ly/p9PWRZ> This course explores historical development from 1500 to the present, concentrating on the personalities, the ideas, and the events that have shaped the modern era in Europe, the Western world, Africa, and Asia. Geographic impact, development of civic knowledge/responsibilities, and emerging economic systems within a chronological context will be emphasized.**WORLD HISTORY SINCE 1500, PRE-AP 230015***Grade Level: 9**Prerequisite: EXPLORE Reading score 18+*Course Video: <http://www.youtube.com/watch?v=BDia2qCo3H4> This course explores the same topics as World History since 1500 but has a higher emphasis on critical thinking and examination of historical texts. ***The title Pre-AP designates a preparatory course for AP work, not a college Board Advanced Placement course.*****WORLD HISTORY SINCE** **1500, P**RE**IB 2300151***Prerequisite: EXPLORE Reading score 18+*See the IB section for information.Pre IB Course Video: <http://bitly.com/HHSPreIBshow>  **US HISTORY AND GEOGRAPHY TO 1877, 10th GRADE 230016***Grade Level: 10*Course Video: <http://www.youtube.com/watch?v=Qzq0WseMsEY> This course is the first half of a comprehensive two-year study of American history and geography. In tenth grade students cover the historic development of American ideas and institutions from the Age of Exploration and Discovery through Reconstruction. While focusing on political and economic history, students will examine American culture through a chronological survey of major issues, movements, people, and events in United States and Alabama history.**US HISTORY AND GEOGRAPHY SINCE 1877, 11TH GRADE 230019***Grade Level: 11*Course Video: <http://youtu.be/gb0akVAJy5M> Eleventh grade focuses on twentieth century America and beyond. Knowledge and understanding gained during previous years of study provide the foun­dation for the critical analyses required in this course. In the eleventh grade, students cover the historic development of American ideas and institutions from the turn of the century to the current day. Students will focus on political and economic history and examine our American culture through a survey of major issues, movements, people, and events in United States and Alabama history.**ECONOMICS 230051***Grade Level: 12 Semester*Course Video: <http://youtu.be/H9sgyPOfR_g> Economics is a required one-semester course which studies the basic principles of a capitalist economic system. Topics studied include: scarcity, the nature of economic systems, opportunity costs and production possibilities, supply, demand and price concepts, the nature of factor markets, efficiency, equity, the role of government, gross national product, inflation, unemployment, money and banking, and monetary policy.**UNITED STATES GOVERNMENT 230041***Grade Level: 12 Semester*Course Video: <http://www.youtube.com/watch?v=PURxjTkuQUM&sns=em> United States Government is a required one-semester course which examines, in depth, the constitutional powers delegated to the three branches of federal government as well as those powers reserved to the states. Particular attention is also given to individual civil rights as well as the responsibilities of citizenship. Other topics included in this course are: comparative political systems, a review of the foundations of the United States governmental system, the rise and importance of political parties, and politics in a democratic government.**UNITED STATES GOVERNMENT 2300412 /ECONOMICS BLENDED ONLINE 2300512** Course Video: <http://www.youtube.com/watch?v=2mVSE5ajdCM>  **SOCIAL STUDIES ELECTIVES****PSYCHOLOGY 230071***Grade Level: 10-12*Course Video: <http://youtu.be/0MYgDOIWO8E> Psychology is a year-long course which provides students with a basic understanding of human behavior. Included in the course are units on brain function and perception, motivation, developmental psychology, personality, learning and intelligence, abnormal behavior, and methods and research. **SOCIOLOGY 230081***Grade Level: 11-12*Sociology is the study of human society and social behavior. Sociology is a year- long course which will include units on cultural diversity, cultural conformity and adaptation, group behavior, and socialization. Other topics of interest include collective behavior (mobs, riots, fads, etc.), adolescent behavior, and deviant/criminal behavior.**WORLD RELIGIONS 999265***Grade Level: 10-12*Course Video: <http://youtu.be/FAsH0-RI0EU> World Religions is a year-long course that will introduce students to the study of religion and survey six major world religions: Hinduism, Buddhism, Taoism, Judaism, Christianity, and Islam. Additionally two major religions will be selected by the instructor for an in-depth study from the following list: Buddhism, Sikhism, Hinduism, Christianity, Islam, or Judaism. Students will examine the rituals, sacred texts, beliefs and religious experience of these religions, and develop an appreciation for the world's religious diversity.**US HISTORY IN FILM 2300320***Grade level 10-12**Fee: $25.00*Course Video: <http://www.youtube.com/watch?v=6Rev3wf52Ag&feature=youtu.be> US History in Film evaluates the medium of film as it portrays themes in American History.  These themes include military history, social history, American individuals and regional cultures.  Movies will be viewed in class and then discussed.  The focus of the discussion will be historical accuracy.  The class will also examine how the year each movie was made influenced how events in the movie were presented.  The early history of the American film industry will also be covered.**SOCIAL STUDIES ADVANCED PLACEMENT****HUMAN GEOGRAPHY, AP 230062***AP Exam Fee: $85**Grade Level: 10-12*AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of the earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools used by geographers in their science and practice. This course is designed to prepare students fo r the AP exam.**AP US HISTORY 10 230022***Grade Level: 10**Prerequisite: EXPLORE Reading score 20+ and English score 20+*Course Video: <http://youtu.be/BtnX5N_KFRk> <http://youtu.be/GfDvtF0pzIc> The Advanced Placement Program in United States History, a college-level course, is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems in United States history. Students will learn to assess historical materials-their relevance to a given interpretive problem, their reliability, and their importance-and to weigh the evidence and interpretations presented in historical scholarship. This is the first part of a two-year program designed to prepare students for the AP exam.**AP US HISTORY 11 2300221***AP Exam Fee: $85**Grade Level: 11**Prerequisite: PLAN Reading score 25+ and English score 25+, Completion of 10th grade Advanced Placement United States History and Geography, Beginnings to 1877 or permission of instructor*Course Video: <http://youtu.be/R_dIYkq3VTI> <http://youtu.be/GfDvtF0pzIc> The Advanced Placement Program in United Stated History, a college level course, is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems in United States History. This program prepares students for college courses. Students will learn to assess historical materials–their relevance to a given interpretive problem, their reliability, and their importance–and to weigh the evidence and interpretations presented in historical scholarship. The course is designed to give students a grounding in the chronology of the United States history and in major interpretive questions that derive from the study of selective themes. **This course is the second half of a two-year program and some summer reading is required.** Students who have not taken APUSH 10 will be entering into the middle of a two -year program. **Students signing up for APUSH 11 who have not taken APUSH 10 must talk to Mr. Sturgeon and get books and summer work before they leave in May**. While some students have successfully completed APUSH 11 without taking APUSH 10, such a decision should be **approached with caution**. Students will take the AP exam in May.**US GOVERNMENT, AP 230047***AP Exam Fee: $85**Grade Level: 12**Semester**Prerequisite: PLAN Reading score 25+ and English score 25+, Teacher signature*Course Video: <http://www.youtube.com/watch?v=DndU9wxgL4A&sns=em> Advanced Placement U.S. Government is an introductory college-level course, designed to prepare students to take the AP exam in May. Those students who achieve a score of 3, 4, or 5 may receive credit or advanced placement, or both, at the university of their choice.The course is designed to teach students about how people behave politically and how the American political system is designed. Specifically, this means that students will examine how the system is structured and how it functions as a pluralistic system of various individual and group interests, all promoting their own agendas as to what they claim is important and beneficial for the country. It is taught with the conviction that students want to know not only who governs but what difference it makes who governs. In short, the course attempts to demonstrate how our government institutions and political processes help explain why some policies are adopted and not others.This class uses the “flipped model” of instruction.  This means that students will watch short content lectures at home, and do critical thinking activities during class time.  Students do a variety of activities, including collaborative projects, research, simulations, and graded Socratic seminars and discussions.**ECONOMICS, AP 230054***AP Exam Fee: $85**Grade Level: 12**Semester**Prerequisite: PLAN Science score 27+ and Math score 26+, Algebra 2 w/Trig and Teacher Signature*Course Video: <http://www.youtube.com/watch?v=DndU9wxgL4A&sns=em> Advanced Placement Economics is an introductory college-level course, designed to prepare students to pass the Advanced Placement examination in Macroeconomics. The exam, given in May of each year, is written and graded by The College Board and Educational Testing Service. Students who earn a score of 3, 4, or 5 may receive college credit or advanced standing, or both at the universities they enter after high school graduation. The course is designed to parallel a college survey course and a college textbook is used. The scope and intensity of instruction is appropriate for students who desire a more challenging level of instruction in economics.**PSYCHOLOGY, AP 230072***AP Exam Fee: $85**Grade Level: 11 - 12**Prerequisite: PLAN Reading score 24+ and English score 22+, Teacher Signature*Course Video: <http://www.youtube.com/watch?v=i_ecGG-66Co> Advanced Placement Psychology, a full-year course, is an introductory college level course that examines human behavior. The course outline follows the precepts of the College Board, and includes units on sensation and perception, states of consciousness, learning and intelligence, motivation and emotion, developmental psychology, personality, abnormal psychology, and the treatment of psychological disorders. Research methods and the major schools of thought will be addressed throughout this course. Students will be required to research topics of interest in psychology as well as design and conduct an experiment with other members of the AP class. The Advanced Placement Exam in psychology will be administered in May.**AP EUROPEAN HISTORY 230029***Grades 10-12**Prerequisite: PLAN Reading score 25+ and English score 23+, Teacher Signature**AP Exam Fee: $85*The AP European History Course and Exam are intended for students who wish to complete classes in secondary school equivalent to college introduc­tory courses in European history. The course corresponds to the most recent developments in history curricula at the undergraduate level. The year-long course covers the time period of 1450 - present day. The scope of the course includes the intellectual, cultural, political, diplomatic, social and economic history of Europe beginning in 1450. Like all AP courses the student must perform well on the AP College Board Exam in European History to receive college credit if allowed by their chosen college.**OTHER ELECTIVES****STUDENT AIDE, LIBRARY @ HHS 9991102***Grade Levels:  11 – 12**1 credit per year*Course Video: <http://youtu.be/qGopfk7TARM> In this hands-on class, students will learn how to manage the Library’s circulation desk using Destiny software.  In addition, students will gain a thorough knowledge of the Dewey Decimal Classification System, which they will use to maintain an assigned section of library materials.   Assisting patrons and reading a variety of materials are also requirements of this class.  Signatures are required, and this class is limited to 3 students per period.**ACADEMIC COMPETITION TEAM 9991145***Grade Levels:  9– 12*Description:   The Academic Competition Team represents Hoover High School in competitive events both locally and nationwide.  This course helps prepare students to apply the material they have learned in their regular coursework, supplemented with intensive study in key knowledge areas, and develops the skills needed to participate in academic competition.  Homework and outside reading are a significant portion of the course, as is a commitment to attend tournament events on a regular basis.  Students are encouraged to tailor their ACT participation to their particular areas of academic interest, but will also be expected to build core knowledge.  Admission to the course is open to all students in grades 9-12.**FOUNDATIONS OF READING & WRITING 600202***Grade Level: 9-12**Prerequisite: approval of case manager*Course Video: <http://www.youtube.com/watch?v=tAs16rFKVBo> Students will learn techniques that, when applied, can help them become independent readers. The teacher will instruct the students in reading skill techniques, writing skill techniques, lead class activities and discussions that reinforce topics of study, model skills taught, and encourage students to apply techniques to their personal lives for success both in school and in life. The instructional strategies used in this course will include:  guided practice activities, small and large group discussion, technology, independent practice, and direct instruction. **Junior Class Officers (JCO)***Grade Level: 11th grade**Prerequisite: Signature of sponsor is needed after an election and interview process is complete.  See Mrs. Nowlin in D347 for an application.* Course Video: <http://www.youtube.com/watch?v=xR90oRAhwE0> This course allows 11th grade students the opportunity to use and better their leadership skills. It is designed to provide planning time for JCO members to plan the 3k and prom.  Members also assist SCO (Senior Class Officers) with the Senior Tailgate, Senior Halloween Dace, and Beauty Walk. These students are to be leaders during school and outside of school at all times.  **The International Baccalaureate Program****Pre-IB and Pre-**A**P courses are designations used by** H**oover City** S**chools and are not authorized by the International Baccalaureate Organization or the College Board.****IB Program Fee: $250 Per Year****Pre-IB:** [**http://bitly.com/HHSPreIBshow**](http://bitly.com/HHSPreIBshow)**IB Video: IB:** [**http://bitly.com/HHSIBshow**](http://bitly.com/HHSIBshow)**IB THEORY OF KNOWLEDGE 11 230095***Prerequisite: Available only to IB seniors pursuing IB Diploma*Course Video: <http://youtu.be/DTDQtMFCN1M> ***TOK 11 is the first year of a two-year course*** that represents the cornerstone of the International Baccalaureate (IB) curriculum. ***In grade 11, students take a blended online course guiding them toward completion of the IB extended essay and providing an introduction to the terms and concepts of IB and TOK.*****IB THEORY OF KNOWLEDGE 12, TOK IB 12, 2300951***Prerequisite: Available only to IB seniors pursuing IB Diploma*Course Video: <http://youtu.be/DTDQtMFCN1M> In grade 12, students take the second year of TOK in a traditional classroom setting***.*** Throughout the course students are involved in a critical examination of knowledge through readings, discussions, and writings based on the perspectives of language, logic, perception, mathematics, history, science, ethics, politics, and the arts.**IB Grou**p**1 - Engl**i**sh L**i**terature****PRE-IB** E**NGLISH 9th GRADE**  **2000071**Course Video: <http://www.youtube.com/watch?v=BdO3dKHQwD8&feature=youtu.be> This course is taken by ninth grade students who anticipate enrollment in the eleventh grade as IB Diploma Candidates. This course will follow the basic form of other advanced academic English classes, but will include works from world literature, additional writing instruction, and evaluation criteria based on the IB assessment standards. The Pre IB history and English courses are intended to be studied across disciplines and should be taken concurrently.**PRE-IB** E**NGLISH 10th GRADE**  **2000111**Course Video: <http://www.youtube.com/watch?v=2HpUoosIGXw> This course is taken by sophomore students who anticipate enrollment in the eleventh grade as IB Diploma Candidates. The course will follow the basic form of an English, Pre-AP/IB class, but students will study more works from American and world literature, and the evaluation criteria will be based upon the IB language curriculum’s assessment rubrics. The Pre IB history and English courses are intended to be studied across disciplines and should be taken concurrently.**IB ENGLISH 11th GRADE 200022***Prerequisite: See criteria under IB Program, page 5*Course Video: <http://www.youtube.com/watch?v=q3q0v124P_8&feature=youtu.be> This course is the first part of a two-year International Baccalaureate curriculum that prepares students for higher-level (HL) assessments in literature and composition. Extra emphasis is placed on oral presentation skills and the study of world literature themes.**IB ENGLISH 12th GRADE 2000221***Prerequisite: IB English 11* Course Video: <http://bitly.com/HHSIBshow> This course is the second part of a two-year International Baccalaureate curriculum that prepares students for higher-level (HL) assessments in literature and composition, in May of the senior year.**IB GROUP 2 FOREIGN LANGUAGES****IB SPANISH 270160***Prerequisite: Three years of Spanish and enrollment in IB program*Course Video: <http://www.youtube.com/watch?v=GckJxywi4W8> **IB FRENCH 270029***Prerequisite: Three years of French* Course Video: <http://www.youtube.com/watch?v=LH-PFuU_I_o> These courses prepare students for the standard-level (SL) Spanish or French B Language Examination. Emphasis is placed on active communication in the language and analysis of Spanish or French culture and literature. Students will be required to give oral presentations and to develop text-handling skills.**IB LATIN 270116***Prerequisite: Three years of Latin* Course Video: <http://www.youtube.com/watch?v=vRNhAKYM144&feature=em-share_video_user> This course prepares students for standard level (SL) examination in a classical language, Latin. Emphasis is placed on the study of the surviving classical texts in the original language and an analysis of Greek and Roman culture and historical development**IB GROUP 3 HISTORY** **WORLD HISTORY SINCE** **1500, P**RE**IB 2300151***Grade Level: 9* Course Video: <http://www.youtube.com/watch?v=YHFfdfyJSJM> This course is taken by ninth grade students who anticipate enrollment in the eleventh grade as IB Diploma Candidates. This course explores the same topics as World History since 1500 but has a higher emphasis on critical thinking and examination of historical texts. The Pre IB history and English courses are intended to be studied across disciplines and should be taken concurrently.**US HISTORY AND GEOGRAPHY 10th GRADE 1877, PRE-IB 230018**Course Video: <http://www.youtube.com/watch?v=v9bmD-FTni4> This course is taken by sophomore students who anticipate enrollment in the eleventh grade as IB Diploma Candidates. The course will follow the basic form of a History, Pre-AP/IB class, but students will study additional world history topics, and the evaluation will be based upon the IB assessment criteria. The Pre IB history and English courses are intended to be studied across disciplines and should be taken concurrently.**IB HISTORY OF THE** **AMERICAS 11th GRADE 230024***Prerequisite: See criteria under IB Program, page 5*Course Video: <http://www.youtube.com/watch?v=ApoMm4zLS94&feature=youtu.be> This course is the first part of a two-year International Baccalaureate curriculum that prepares students for higher-level (HL) assessments in the history of the American continent. This level focuses on U.S. history in the context of World history.**IB HISTORY OF THE** **AMERICAS 12th GRADE 230026***Prerequisite: IB History 11* Course Video: <http://www.youtube.com/watch?v=_eX7i77Sgdk&feature=youtu.be> This course is the second part of a two-year International Baccalaureate curriculum that prepares students for higher-level (HL) examination in the history. This course takes the place of Government and Economics and focuses on specific 20th Century historical topics prescribed by IB and selected by the teacher.**IB GROUP 4 EXPERIMENTAL SCIENCE****INTEGRATED CHEMISTRY & PHYSICS, PRE-AP 2200631***Grade Level: 10**Recommendation: This course allows students to acquire the science prerequisite for any advanced science courses that have chemistry as a prerequisite. This course should be taken by students who wish to be in the IB Program.**Prerequisite: Pre-AP Biology, Pre-AP Geometry**Corequisite: Pre-AP Algebra 2w/Trig**Laboratory Fee: $25*Course Video: <http://youtu.be/rXwpokVF2jI> **IB CHEMISTRY 11 220065***Prerequisite: See criteria under IB Program, page 5**Laboratory Fee: $25*Course Video: <http://youtu.be/GySTvwQj5tU> This course introduces college-level Chemistry topics which are covered in the Higher Level IB assessments. Emphasis is placed on extensive laboratory experiences that apply scientific knowledge. Students keep a laboratory notebook in order to complete the IB laboratory component of the course.**IB BI**OLOGY**11 220016***Prerequisite: See criteria under IB Program, page 5**Laboratory Fee: $25*Course Video: <http://www.youtube.com/watch?v=rcFe_rrD7WQ> This course introduces college-level Biology topics, which are covered in the Higher Level IB assessments. Emphasis is placed on extensive laboratory experiences that apply scientific knowledge. Students keep a laboratory notebook in order to complete the IB laboratory component of the course.**IB BI**OLOGY**12 2200161***Prerequisite: IB Biology 11**Laboratory Fee: $25*Course Video: <http://www.youtube.com/watch?v=xeukUTCXbZY> This course continues the advanced study of college-level Biology topics, which are covered in the Higher Level IB assessments. Emphasis is placed on extensive laboratory experiences that apply scientific knowledge. Students keep a laboratory notebook in order to complete the IB laboratory component of the course.**IB CHEMISTRY 12 2200651***Prerequisite: IB Chemistry 11**Laboratory Fee: $25*Course Video: <http://youtu.be/GySTvwQj5tU> This course extends the study of college-level Chemistry topics which are covered in the Higher Level IB assessments. Emphasis is placed on extensive laboratory experiences that apply scientific knowledge. Students keep a laboratory notebook in order to complete the IB laboratory component of the course.**IB ENVIRONMANTAL SYSTEMS AND SOCIETY 220033***Grade Level: 11 & 12*Course Video: <http://www.youtube.com/watch?v=Q_wei1UeTQo> See IB Environmental Systems and Societies in the science section. **IB GROUP 5 MATHMATICS****MATH STUDIES SL 210028***Grade Level: 11-12 Prerequisite: Algebra 2/Trig*IB Course Video: <http://bitly.com/HHSIBshow> Math Studies provides a structured introduction to areas of emphasis in most postsecondary studies of mathematics in preparation for IB assessments. Topics covered include Number Properties and Algebra, Set and Logic, Probability and Statistics, Functions, Geometry and Trigonometry, and Introductory Differential Calculus. To assist students with numerical and graphical analysis, the use of advanced technological tools is required.**IB MATH SL 210029**Prerequisite: See criteria under IB Program, page 5IB Course Video: <http://bitly.com/HHSIBshow> This course covers the Pre AP Precalculus curriculum in addition to producing portfolio work for the IB diploma. Students advance from this course into AP Calculus where they continue to prepare for both AP and IB examinations. Students may also enroll in IB Precalculus Team in lieu of this course. **IB PRECALCULUS TEAM 2100204****Fee: Fundraiser/$150 (Math Team)***Prerequisite: Acceptance into the IB Program OR teacher recommendation, Signature required*IB Course Video: <http://bitly.com/HHSIBshow> This course covers the same topics as IB Precalculus with a more in-depth analysis of major concepts, more emphasis on theory, and additional topics from Calculus. In addition, students will produce portfolio work for the IB diploma. Students advance from this course into AP Calculus where they prepare for both AP and IB examinations. Enrollment in this course is not limited to IB students. IB Precalculus Team students are required to participate in fundraising equivalent to **$150**. See math team information in the Math section of this course selection guide for more details on the team requirements. **IB MATH HL 210030**Fundraiser/$150 (Math Team) *Prerequisite: Acceptance into the IB Program OR teacher recommendation, Signature required**Pre/Corequisite: AP Calculus BC*IB Course Video: <http://bitly.com/HHSIBshow> This course covers advanced mathematical topics in-depth and is co-seated with Comprehensive Math Team. Students will produce portfolio work for the IB diploma and take the IB math higher level (HL) examination. Students in this course are also members of the math team and will participate with the math team in tournaments, fundraising, etc.**IB PSYCHOLOGY 230073***Prerequisite: See criteria under IB Program, page 5*Course Video: <http://www.youtube.com/watch?v=i_ecGG-66Co> The course follows the format of an introductory college course in Psychology, and students are required to design and conduct a psychology re­search project.**IB MUSIC 280025***Prerequisite: Three years of concert or symphonic band or concert choir.*IB Course Video: <http://bitly.com/HHSIBshow> Students with a special interest in and talent for music may take concert or symphonic band or concert choir through their senior year and complete IB assessments for music, group performance. Additional work is required to meet IB requirements. See IB coordinator for additional information.**IB P**HYS**IC**S **220076**IB Course Video: <http://bitly.com/HHSIBshow> As an IB subject, IB Physics can only be taken as a "sixth subject" elective and is NOT a substitute course for IB chemistry or biology. This elective is strongly recommended for students enrolled in both IB and engineering academy. .**IB THEATER** **280081***Prerequisite: Drama 1, and approval of theater teacher**Grade level:11 or 12*IB Course Video: <http://bitly.com/HHSIBshow> This course will be taught in conjunction with advanced drama. Students will complete additional assessments based on the IB theater requirements and develop their theater portfolio which will be submitted for IB assessment.**IB GEOGRAPHY 230063***Grade Level: 11-12*IB Course Video: <http://bitly.com/HHSIBshow> IB Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of the earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They will also learn and exercise the methods and tools utilized by geographers in their science and practice. This course is designed to prepare students for assessments in IB Geography.  |

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