

college prep course which will cover extensive chemical theories. Emphasis will be on critical thinking, problem solving, experiments, demonstration, and discussion.

AP Chemistry (prerequisite: Grade of “A” in Algebra, concurrent enrollment in Geometry or higher math, and completion of Chemistry with a grade of “B” or higher) This course emphasizes the topics covered in an introductory college level chemistry course. It will include chemical theory and applications and will develop students’ skill in critical thinking, problem solving, discussions, and experimentation. **Students who do not take the AP exam will not receive the weighted grade point.**

Geo Science (10– 12 grade) This class acquaints students with the different disciplines of geology, meteorology, oceanography, astronomy, and environmental science

Micro-Marine Biology (Grade of C or higher in Biology or Chemistry) This course provides an introduction to microbiological and marine organisms. Students will learn the major structure and function of the organisms and how they affect our world

Physics (prerequisite: grade of ‘C’ or higher in Geometry) Study of central concepts of physics including mechanics, thermodynamics, waves, sound, light, electricity and magnetism.

AP Physics (Grade of “B” or higher in Algebra 2. Concurrent enrollment or successful completion of Pre Calculus is recommended.) This course provides a systematic introduction to the main principles of physics; mechanics, waves, heat, electricity, and magnetism, optics and modern physics will be covered. **Students who do not take the AP exam will not receive the weighted grade point.**

Math

Algebra A

Algebra B This course is the second year of the two year Algebra I class

Geometry (prerequisite: grade of ‘C’ or higher in Algebra 1)

Algebra 2 (10 – 12) (prerequisite: grade of ‘C’ or higher in Geometry)

College Prep Math (Seniors will be given priority) This course is an option for students who are not ready for Pre-Calculus after Algebra 2. Course reviews Algebra 1, Geometry, Algebra 2, and introduces Trigonometry.

Pre-Calculus (prerequisite: a grade of ‘C’ or higher Algebra 2) Pre-Calculus is designed to introduce students to the language and concepts necessary for college level math courses. A TI graphing calculator is highly recommended.

AP Calculus (prerequisite: a grade of ‘B’ or higher in Pre-Calculus both semester or teacher rec.) This advanced placement course is the equivalent to college level Introductory Calculus. Students study function and derivative of polynomial, trigonometric, logarithmic, hyperbolic and exponential functions. A TI graphing calculator is required. **Students who do not take the AP exam will not receive the weighted grade point.**

AP Statistics (prerequisite: minimum requirements of grade of ‘B’ or higher in Alg 2 both semesters) **Students who do not take the AP exam will not receive the weighted grade point.**

Foreign Language

Spanish 1

Spanish for Spanish Speakers 1 (oral skills required – students will be taught to read and write)

Spanish 2 (prerequisite: ‘C’ or higher in Spanish 1)

Spanish for Spanish Speakers 2 (prerequisite: grade of 'C' or higher in Spanish for Spanish Speakers 1)

Spanish 3 (prerequisite: grade of 'C' or higher in Spanish 2)

AP Spanish 4 (prerequisite: grade of B or higher in previous Spanish course) **Students who do not take the AP exam will not receive the weighted grade point.**

French 1

French 2 (prerequisite: grade of 'C' or higher in French 1)

French 3 (prerequisite: grade of 'C' or higher in French 2)

AP French Language (prerequisite: grade of 'B' or higher in French 3)

Fine Arts

Art Students will participate in the creation of realistic and representational art through the use of pencil, charcoal and colored pencils. Art survey of artists and their works will be explored.

Advanced Art Structure / or Advanced Art Painting / or Advanced Art Freehand (prerequisite: successful completion of Art or teacher approval. Lab fee required)

AP Studio Art (prerequisite: successful completion of Art or teacher approval. Lab fee required. Must have honors/AP form completed)

Mixed Choir (placement will be determined by Choir Director based upon audition) Open to the entire student body for students with or without singing experience. Costume fee required.

Madrigals (placement will be determined by Choir Director)

Treble Choir (placement will be determined by Choir Director) Costumes and accessories must be purchased.

Chamber Choir (placement will be determined by Choir Director) Advanced two period course earning Fine Art. Costumes and accessories must be purchased.

Concert Band Students will perform in concerts, festivals, and special school and community events. Most members of Concert Band will also participate in the Marching Band. Assessment fee and trip fee required.

Wind Ensemble An advanced intermediate level course that will perform in concerts, festivals and special school and community events. Assessment fee and trip fee required.

Jazz Ensemble An advanced course restricted to five saxes, five trumpets, five trombones and five rhythm players. Students will perform in concerts, festivals and special school and community events. Assessment fee and trip fee required.

A P Music Theory (prerequisite: Instructor approval from either the Instrumental Music Program Director or the Vocal Music Director) AP Music Theory Introduces student to musicianship, theory, musical materials, and procedures. The course covers aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and, to some extent, history and style.

Color Guard (prerequisite: students must audition) Color Guard will meet during Period One Marching Band first semester and will compete along with the band. In the winter, they will compete and perform at local winter guard association shows. (Not a UC/CSU fine art)

Beginning Dance (Dance I) This course uses movement activities through traditional and modern dance. (Course may be used for Fine Art credits)

Intermediate Dance (Dance II) (prerequisite: teacher approval)

Dance Team Preparation (Dance Production) (prerequisite: auditions and teacher approval)

Drama Students will learn about the world of the theatre, from back stage to starring role.

Musical Theater Students will study the evolution of the American musical and analyze how the different elements of music, lyrics, voice, and movement come together to create characters and story. Students will participate in acting and directing of musical theater selections for classroom performances.

Photo Students will learn to operate a camera and shoot, develop, enlarge and finish their own work. Requirements: use of a 35 mm camera / lab fee.

Play Production [prerequisite: completion of Drama I with a grade of “B” or higher; admittance approved by instructor (required); and audition may be required. This course may be repeated for credit. Play production is the advanced theatre course of the drama program. Designed for only the most accomplished and dedicated theatre student, this two-semester class is all about applying what the student has learned in the earlier drama courses in the program to actually producing and performing theatrical presentations for the public. Many hours of work outside of class are required.

Advanced Photo (prerequisite: successful completion of Photo 1. Requirements: use of a 35 mm camera / lab fee)

Digital Art and Video Production This course is designed to prepare students for filming a documentary. Training will include camera use, lighting techniques, and audio.

Advanced Video Production (prerequisite: A or B in Video Production and/or teacher recommendation)

Practical Arts

Aircraft Maintenance / Small Engines Students will learn the basic components and systems of two and four stroke engines through practical hands-on work with lawnmower and aircraft engines. Shop safety and tool identification will be stressed.

Aircraft/ Small Engines 2 (prerequisite: completion of Aircraft / Small Engine 1)

Beginning Computer Science (prerequisite: grade of ‘C’ or higher in Algebra 1 and concurrent enrollment in Geometry or higher math course) This course emphasizes computer programming.

Broadcast Journalism (prerequisite: teacher approval and a B or better in Digital Art and Video Production) Students will produce and direct the daily ‘Good Morning JBHS’ program. Instructional techniques include camera use, audio, visual, and lighting techniques.

Business Management This course will provide students with an understanding of the changing nature of business, the role of small businesses in relationship to large businesses, the reason why businesses succeed and fail, business law, business principals, and business management

Advanced Broadcast Journalism (prerequisite: A or B in Broadcast Journalism and /or teacher recommendation)

Cabinet Technology - Students will be introduced to basic woodworking. Instruction in safety, care and use of hand tools, intro to power machines and completion of a variety of wood projects.

Adv. Cabinet Tech prerequisite: grade of C or higher in Cabinet Tech

AP Computer Science (prerequisite: grade of "B" or higher in Beginning Computer Science and completion or concurrent enrollment in Algebra 1. Must have honors/AP form completed)

Students who do not take the AP exam will not receive the weighted grade point.

Consumer Finance (10-12 THIS COURSE MUST BE TAKEN AS A PAIR WITH PARENTING) Consumer Finance is designed to help students make good financial decisions. Students will study income and how career choices will impact future income. Taxes, employee benefits and inflation will also be taught. Money management and how to use a financial plan will help to protect what you have earned. Students will also be show how to buy and use credit wisely. Ways to avoid credit problems will be discussed and students will learn about credit laws that protect customers. Saving and investing will also teach students how to buy and sell investments with an understanding of options and strategy.

Culinary Arts (11th and 12th grade only) Students will develop skills in basic food use and preparation with an emphasis on application of nutritional knowledge.

Culinary Bistro (prerequisite: "B: grade in both semesters of culinary arts and teacher approval) This class differs from the culinary arts class in that it is more advanced and expands upon the curriculum offered in the culinary arts class.

Digital Applications Students gain exposure and experience using personal computers, scanners, digital cameras and print software to complete a variety of projects in the field of business, digital photography, video and audio editing, desktop publishing and web design.

Adv. Digital Applications (prerequisite: successful completion of Word Processing/Computer Applications with a "C" or higher) This course incorporates the use of software that is currently used in business and industry. Students learn advanced word processing, desktop publishing, spreadsheet, and data base management. Students develop competency in producing documents in acceptable business form.

Journalism (English teacher recommendation) Students will analyze electronic media and print media. They will then learn to write while acquiring the skills necessary to produce the school newspaper.

Adv. Journalism (prerequisite: successful completion of Journalism)

Parenting: (10-12 THIS COURSE MUST BE TAKEN AS A PAIR WITH CONSUMER FINANCE) This elective course will help students to acquire and develop skills that will assist in persona; and family life. Patterns of contemporary family lifestyles and interpersonal relationship[s are explored. Student explore concepts related to family planning, prenatal development and childbirth, and child development through adolescence. Health issues, nutrition, safety, and discipline are examined.

Photo Students will learn to operate a camera and shoot, develop, enlarge and finish their own work. Requirements: use of a 35 mm camera / lab fee.

Advanced Photo (prerequisite: successful completion of Photo 1.)

ROP classes (must be at least 16 years old) Occupational classes vary every semester. (business, computers, medical, banking and more) Sign up in the Career Center.

Technical Theatre Students will learn the behind the scene skills necessary to be part of a stage crew. The course will cover stage management, set design and construction, and lighting.

Digital Arts & Video Production This course is designed to prepare students for filming a documentary. Training will include camera use, lighting techniques, and audio.

Advanced Video Production (prerequisite: A or B in Video Production and/or teacher recommendation)

Virtual Enterprise (THIS COURSE IS ONLY AVAILABLE TO THOSE SENORS IN BUSINESS ACADEMY) A Virtual Enterprise is a simulated business that is set up and run by students to prepare them for working in a real business environment. With the guidance of a teacher, and real-world business partners, the students determine the nature of their business, its products and services, its management and structure, and engage in the daily operations of running a business. Emphasis is placed on using current business software, communications, and the Internet for business transactions. Students will compete at regional and state competitions with other Virtual Business companies.

Web Page This class instructs students in internet web page design using HTML, scripting, and some Java Script programming.

Yearbook (prerequisite: advisor's approval) This class is responsible for designing and producing the annual yearbook. Ability to meet deadlines is a must.

Academic Electives

Beginning Computer Science (prerequisite: grade of 'C' or higher in Algebra 1 and concurrent enrollment in Geometry or higher math course)

AP Computer Science AB (prerequisite: grade of "B" or higher in Beginning Computer Science and completion or concurrent enrollment in Algebra 2. Must have Honors/AP form completed)
Students who do not take the AP exam will not receive the weighted grade point.

Psychology (10-12 THIS COURSE IS MUST BE TAKEN AS A PAIR WITH SOCIOLOGY) Offers a basic introduction to the study of human behavior. The course will provide students with information from available scientific knowledge in psychology again which they may measure their own beliefs and assumptions regarding the nature of human behavior.

Sociology (10-12 THIS COURSE MUST BE TAKEN AS A PAIR WITH PSYCHOLOGY) This course will cover socialization from birth until death and emphasize the concepts of social change. Students will be required to do both academic and field research and to actively participate in class discussions.

Physical Education

.Aerobics Fitness program that gives students a chance to dance/step to music.

***Athletics**

GIRLS:

Water Polo Conditioning

Soccer Conditioning

Basketball Conditioning

Softball Conditioning

Golf in season

Tennis in season

Volleyball in season

Cross Country in season

BOYS:

Water Polo in season

Soccer Conditioning

Basketball Conditioning

Baseball Conditioning

Golf Conditioning

Tennis conditioning

Volleyball Conditioning

Cross Country in season

Football in season

General Team Sports: Students will learn basic skills, rules and strategies needed to participate in team sports and physical fitness disciplines.

Weight Training This class meets the needs of students in the following areas: total body strength specific large muscle group development, flexibility enhancement, cardio-vascular fitness and strength conditioning through weight training activities.

Non Departmental Electives

All courses must have prior approval from teacher/staff.

ASB (must run for office) This class is for elected student body officers, class officers and commissioners.

Field Performance (Concurrent enrollment in Marching Band, Concert Band, or Wind Ensemble and teacher approval. DOES NOT COUNT FOR PE CREDIT

Pep Squad (tryouts required) cheerleading squad .

Library or *Office Assistant (required: note from library or from office)

Student Tutor (prerequisite: 3.0 overall GPA / must have taken class in which tutoring assignment is desired with an "A".) Teacher recommendation and administrator approval is required) Student will earn a letter grade for this course.

Teacher Aide (required: note from teacher) Junior and Seniors only. Elective credit / Pass/Fail grading.

Community College Classes (on JBHS campus)

American Sign Language (prerequisite: approval by counselor, overall G.P.A. 2.0 or higher, and students must be either 11th or 12th graders).

Speech 101 (prerequisite: approval by counselor, overall G.P.A. 2.0 or higher, and students must be either 11th or 12th graders). Learn audience analysis, advance your research skills, develop your informative, persuasive, and oral interpretive techniques. This class will transfer to CSU and UC.

Additional college courses may be taken if the course is pre-approved by counselor. Course catalogues available online at college campus websites.