

10th Grade Course Offerings John Burroughs High School 2022-2023

In an effort to broaden access to students who may otherwise not have the opportunity or background to be placed in an honors or Advanced Placement course, the District has for several years been implementing an open access policy. The parameters of the implementation are as follows: Students who earn an **A** or a **B** in the prior course are allowed to self-select into an Honors or Advanced Placement course. Students who earn a **C** in the prior course must meet with a counselor. They will review the following points:

*the expectations for success in the course, including how the amount of work required and the degree of difficulty of the course will both increase significantly *strict timeline for dropping a class and the potential for a poor mark on their permanent transcript *the student will not be moved to another class after the deadline. If after this meeting a student wants to take the Honors or Advanced Placement course, he or she may do so. Students who earn a **D** or an **F** in the prior course may not take an Honors or Advanced Placement course.

English

English 10 or **NAF English 10**

Honors English 10 or **NAF Honors English 10** (required: A or B grade in English)

Social Science

World History

A.P. European History (required: A or B grade in English)

Science

Earth and Space Science This lab science course emphasizes an understanding of Earth's place in the universe and dynamic Earth processes.

Biology This class introduces students to a comprehensive curriculum which includes introductory units in biochemistry, microbiology, botany, human biology, genetics, ecology, and the environment.

Chemistry (required: grade of 'C' or higher in Algebra 1, concurrent enrollment in Geometry or completion of Geometry with a grade of 'C' or higher) Chemistry is designed to give students a basic understanding of theory, composition and behavior of matter.

Honors Chemistry (required: Completion of Algebra 1, grade of "B" or higher in previous math and science class, concurrent enrollment in Geometry or higher math) This is an accelerated college prep course which will cover extensive chemical theories from stoichiometry to electrochemistry. Emphasis will be on critical thinking, problem solving, experiments, demonstration, and discussion.

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

AP Physics 1 (required: grade of 'B' or better in Geometry OR a 'B' or better in regular Physics PLUS concurrent enrollment in Algebra 2 or higher math) This is a college level course that provides a systematic introduction to the main principles of physics - in particular, mechanics and electric circuits. Taking the AP Physics Exam given in the spring is mandatory.

Math

Algebra 1

Geometry (must have completed Algebra 1 with a grade of "C" or higher)

Algebra 2 (must have completed Geometry with a grade of "C" or higher)

Intro to College Math (must have completed Algebra 2 with a grade of "C" or higher) Topics include problem solving, logic, number theory, Algebra 1 and 2 concepts, Geometry, Trigonometry, probability, and statistics. This course will help students prepare to take college entrance/placement exams.

Pre-Calculus (recommended: completion of Algebra 2 with a grade of C or higher) 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 Statistics (must have completed Algebra 2 with a grade of "C" or higher) This is a college level class designed to introduce students to the major concepts and tools for collection, analyzing, and drawing conclusions from data. Topics include exploratory data analysis and descriptive statistics, designing experiments, and confirming models through statistical inference. Taking the AP Exam in the spring is mandatory.

World Languages

American Sign Language 1 * highly requested, limited space

French 1

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

Spanish 1

Spanish 2 (required: grade of C or higher in Spanish 1)

Spanish 3 (completion of Span 2 with C or higher)

Spanish for Spanish Speakers 1 (oral skills required – students will be taught to read and write) **Spanish Speakers 2** (required: grade of C or higher in Spanish Speakers 1)

Fine Arts

Art Structure 1 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 (required: successful completion of Art or teacher approval.)

Broadcast Journalism Application required. Students will produce and direct the daily "Good Morning JBHS" program. Instructional techniques include camera use, audio, visual, and lighting techniques.

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

Digital Media Production Students will learn to create and edit videos. Students will learn camera use, audio, visual and lighting techniques as well as gain knowledge of Adobe Premiere and After Effects. The course is primarily done via group work and students must be comfortable being on camera.

Advanced Digital Media (required: successful completion of Digital Media Production)

Drama 1 Students will learn about the world of the theater, from back stage to starring role.

Drama 2 (successful completion of Drama 1 or teacher recommendation)

Play Production (successful completion of Drama 2) An advanced theater course designed for accomplished and dedicated theater students. Many hours of work outside of class required.

Instrumental Music: Placement will be determined by Director of Instrumental Music. Audition required.

Musical Theater An exploration of musical theater through study, singing and dancing. This is a performance based course.

Photo 1 Students will learn to operate a camera and shoot, develop, enlarge and finish their own work. Requirements: use of a 35 mm camera. **Photo 2** (required: successful completion of Photo 1).

Stagecraft Technology 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. Additional after school hours are required.

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

Vocal Music Placement will be determined by Choir Director. Audition required.

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

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.

Broadcast Journalism Application required. Students will produce and direct the daily "Good Morning JBHS" program. Instructional techniques include camera use, audio, visual, and lighting techniques.

Cabinet Tech 1 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. **Cabinet Tech 2** (required: grade of C or higher in Cab. Tech 1)

Culinary Art Science 1 Students will develop skills in basic food use and preparation with an emphasis on application of nutritional knowledge.

Digital Applications (Game Design) 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, video game design, and web design.

Advanced Digital Applications (required: successful completion of Digital Applications)

Digital Media Production Students will learn to create and edit videos. Students will learn camera use, audio, visual and lighting techniques as well as gain knowledge of Adobe Premiere and After Effects. The course is primarily done via group work and students must be comfortable being on camera.

Advanced Digital Media (required: successful completion of Digital Media Production)

Journalism Students will analyze electronic and print media. Students will learn to write while acquiring the skills necessary to produce the school newspaper. **Adv. Journalism** (required: successful completion of Journalism)

Photo 1 Students will learn to operate a camera and shoot, develop, enlarge and finish their own work. Requirements: use of a 35 mm camera. **Photo 2** (successful completion of Photo 1)

Stagecraft Technology: 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.

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

Additional Electives

***Engineering Academy (Intro to Computer Programming)** Hands-on class that explores computer science concepts of computer terminology and architecture, software, the Internet and web design, and Java programming. The major focus of the course involves an extensive academic study of computer science concepts using the Java programming language. Topics included are console input and output, programming calculations and operator precedence, predefined Java Math methods, control statements (if-else, for, while) and object-oriented programming. *New academy students will need to complete an online application.

***Medical Academy (Global Health/Careers in the Medical Field)** UC approved elective course. *New academy students will need to complete an online application.

ASB

Health and Careers

Physical Education (all 10th grade students are required to be enrolled in a Physical Education class)

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

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

Marching Band Tryouts both semesters. Co-enrolled in band course.

PE 10-12 Students will learn basic skills, rules and strategies needed to participate in team sports and physical fitness disciplines. All students are required to pass the fitness test.

Pep Squad (Tryouts required) Cheerleading squad. PE credit earned.

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.

Athletic Teams (tryouts required) Contact coach for more information.