



Classical Studies of Indianapolis

High School Clubs and Electives

Clubs

Yearbook

Students have an opportunity to work in creating and designing our school yearbook. They develop photography, copy editing, and computer skills. This club meet on Wednesday and is open to 6-8th grade students. Rhetoric students may participate, but they must design during their own time.

Drama Club

Drama club strengthens collaboration skills and sharpen problem-solving abilities while instilling discipline and giving individuals a strong sense of pride and accomplishment. The club begins in August and students must be prepared to audition with a short monologue. Everyone in the club will serve in some capacity. The club rehearses twice weekly throughout the school year and it culminates in the final performances in February. Set building days and rehearsals during tech week are required. The whole school enjoys seeing the final performance with costumes and set!

Latin Club

Latin Club is the place to play and compete as we use our Latin and knowledge of the ancient world. Latin Club meets each month regularly. We also participate in various field trips throughout the year. CSIndy Latin Club is also our chapter of the Indiana Junior Classical League, an organization of high school students who meet to enjoy the classics. As an IJCL Chapter, we participate with other schools in many events throughout the year including several knowledge-based competitions and conventions.

Mathematics Electives

All math classes require either a placement test or the successful completion of the prerequisite course at CSIndy.

Algebra 1

Algebra I formalizes and extends previously learned mathematics concepts while focusing on five critical areas of mathematical development. Relations and Functions; Linear Equations and Inequalities; Quadratic and Nonlinear Equations; Systems of Equations and Inequalities; and Polynomial Expressions. The critical areas deepen and



extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. CSIndy uses the All Things Algebra series for all its math courses. This resource is rigorous, engaging, and provides both support and challenge for learners at all levels. Resources will be provided by CS Indy and no additional textbook purchase is required.

Algebra 2

Algebra 2 prepares students to take Pre-Calculus and Statistics. A major goal of this course is for students to develop skills in manipulating and solving linear, quadratic, exponential, polynomial, radical, rational, and logarithmic equations. CSIndy uses the All Things Algebra series for all its math courses. This resource is rigorous, engaging, and provides both support and challenge for learners at all levels. Resources will be provided by CS Indy and no additional textbook purchase is required.

Geometry

Geometry covers the required concepts of Euclidean geometry including definitions, postulates, and theorems. Areas of study include angles, parallel lines, congruent and similar triangles, polygons, circles and arc, and the Pythagorean Theorem. In addition to including problems which serve to review algebra, the process of “proving” theorems is introduced. CSIndy uses the All Things Algebra series for all its math courses. This resource is rigorous, engaging, and provides both support and challenge for learners at all levels. Resources will be provided by CS Indy and no additional textbook purchase is required.

Pre-Calculus

Pre-Calculus is made up of 5 strands: Polar Coordinates and Complex Numbers; Functions; Quadratic, Polynomial, and Rational Equations and Functions; Exponential and Logarithmic Equations and Functions; and Parametric Equations. The skills in this course will prepare the student for a calculus course; it is a continuation of Algebra 2 with more depth. This traditional precalculus class utilizes the All Things Algebra series. This resource is rigorous, engaging, and provides both support and challenge for learners. Resources will be provided by CS Indy and no additional textbook purchase is required.



Science Electives:

Biology I

This lab science course introduces the principles and concepts of biology. Emphasis is on basic biological chemistry, cell structure and function, metabolism and energy transformation, genetics, classification, the development of the animal kingdom and ecology. Students will dissect five animals (earthworm, grasshopper, squid, crayfish and fetal pig) as well as take part in various labs throughout the year.

Chemistry

In this high school level chemistry class, students explore the fundamental principles of chemistry which characterize the properties of matter and how it reacts. Topics include, but are not limited to: measurement, atomic structure, electron configuration, the periodic table, Lewis structures, gas laws, the mole concept, thermodynamics, acids and bases, and molecular geometry. Experiments are done throughout the course to reinforce the concepts and give the students hands-on chemistry experience. Pre-Requisites: We recommend that students taking this course be proficient at an Algebra 1 math level and have completed Biology 1.

Biology II

This lab science course builds on the concepts introduced in Biology I and will include an in-depth study of zoology and botany. Emphasis is on the evidence of design in arthropods, birds, amphibians, reptiles, fish, microscopic creatures, sea creatures, mammals, and plants. Students will engage in a variety of outdoor and indoor lab inquiry experiences. They will utilize field guides to identify various species, employ the scientific method to study features of plants and animals, investigate mammalian anatomy through dissection, and synthesize their thoughts regarding the origin of the universe. Pre-Requisites: Students must have taken Biology I before taking Biology II.

Physics

This college-prep physics course provides a detailed introduction to the methods and concepts of general physics. This class will provide the student with a strong background in one-dimensional and two-dimensional motion, Newton's laws and their application, gravity, work and energy, momentum, periodic motion, waves, optics, electrostatics, electrodynamics, electrical circuits, and magnetism. Students will be challenged to apply their knowledge of the laws of physics to solve physics-related critical thinking problems. Pre-Requisites: This class emphasizes vector analysis, so it is designed for the student who has completed Chemistry and Geometry.



Anatomy and Physiology

This is a college prep class for students who might be interested in the medical field or seek a higher level science. It is similar in depth and complexity to what your student would learn at IUPUI. This course is taught by a physician with a background in teaching medical students. It is a rigorous and enjoyable class. Pre-Requisites: Biology and Chemistry.

Language Electives:

Spanish I

As an introduction for beginners to the Spanish language, this course will focus on developing the ability to speak, understand, read, and write the Spanish language. Students will learn and practice basic conversational Spanish, develop their vocabulary, be introduced to Hispanic cultural trends and celebrations, learn grammar, and form sentences. Students will be given a letter grade according to their performance on four major tests, a comprehensive final test, as well as several spoken and written projects throughout the year.

Spanish II

Spanish II is a course for students already comfortable with the basics of the Spanish language. This class will focus on developing the ability to speak, understand, read, and write the Spanish language. Students will further expand their basic conversational Spanish, develop their vocabulary, learn grammar, listen to Spanish music and speakers, and form sentences and paragraphs. Students will be given a letter grade according to their performance on four major tests, a comprehensive final test, as well as several spoken and written projects throughout the year, including an (entirely in Spanish) oral presentation to the class.

Spanish 3

Spanish III is a course for students already very comfortable with the basics of the Spanish language. This class will focus on developing the ability to speak, understand, read, and write the Spanish language. This will be a listening and reading focused class, so that by the end of the year, all conversation in class will be in Spanish. Students will be responsible for at-home translating and writing assignments as we work through translating a short book, *Agu Trot*, over the course of the year, in



addition to weekly listening assignments recorded in the listening log.

Latin II

Latin II is an elective class that continues the study of Latin through intermediate level grammar and vocabulary. Studies focus on more complex structures like passive voice, participial phrases, and complex clausal sentence structure. Readings are slightly adapted from original texts including Horace, Vergil, Ovid, Suetonius, and Plautus. Completion of Latin II will prepare students for unadapted Latin readings as well as National Latin Exam participation and is a stepping stone toward taking the Advanced Placement Exam in future years. Pre-Requisites: D7 & D8 Latin I.

Latin III

Latin III is an elective class that completes the study of Latin grammar including the subjunctive mood. We read unadapted (original) passages from many great Roman writers including Ennius, Cato, Cicero, Caesar, Vergil, and Ovid. There is an increased focus on Literary Analysis as well as an introduction to scansion and meter of Roman poetry. Completion of Latin III will prepare students for the participation in the National Latin Exam and is a stepping stone toward taking the Advanced Placement Exam in future years.

Latin IV/V

This class is class focused entirely on original textual readings (all grammar or vocabulary work having been completed), and it will focus heavily on Poetry for one year and Prose for the next, switching every other year. This is a common arrangement for scope and sequence of Latin programs. (The NLE has Latin 4/5 Prose and Latin 4/5 Poetry tests. Each represents one year of study.)



Miscellaneous Electives:

Creative Writing

This course will be a multi-genre introduction to the craft of creative writing. It will provide students with a basis in the writing process, literary conventions and terminology, technique, editing and the importance of revision, and critical reading skills. A yearlong elective course that meets twice a week, three quarters will focus on a different genre: short fiction, poetry, drama. Students will produce multiple works in each genre. The final quarter of the academic year will be dedicated to establishing an issue of the Literary Magazine, composed of work developed in class.

As an elective, this course will not add to a student's essential course load. Necessary reading will be done in class and provided via electronic PDFs. Students will use class time to write, revise, and workshop their pieces. Grading will be based on effort, participation, and the student's willingness to immerse themselves in the creative process. Creative Writing can be taken multiple times, as new source materials will be introduced, and advanced students can continue to develop their craft. This course is open to 10th grade and above.