

Lindale High School

Honors & AP Course Offerings

Communication

Communication Application Honors (Sem 1)

Course Code: COMAPH

Grade: 9-12

Credit: 0.5 (Honors)

Synopsis: Communication Applications Honors is the first portion of this speech credit. In addition to basic speech concepts, students in the honors class will be exposed to debate, more public speaking and development of critical and analytical listening and thinking skills. Participation in individual speaking/debate contests is encouraged.

COREQUISITES: If you take this course, you must also take PUBSPH - Public Speaking 1 H (Sem 2)

Communication

Debate 1 Honors

Course Code: DEB1H

Grade: 9-12

Credit: 1 (Honors)

Synopsis: This is a course designed to introduce and develop the concept of formalized argument, the skills of persuasion and to examine the power of rhetoric. The student will learn to prepare affirmative and negative briefs, with evidence, in preparation for participation in varsity level debating. Students will also continue to refine their public speaking skills. Participation in individual speaking/debate contests is mandatory. Teacher approval is required and possible summer assignments.

PREREQUISITES: PUBSPH - Public Speaking 1 Honors or COMAPH - Communication Application Honors or SPEECH - Professional Communications

Journalism 1 Honors

Course Code: JOURNH

Grade: 9-12

Credit: 1 (Honors)

Synopsis: This course offers a global approach to news and reporting related to print, online, and broadcast mediums of journalism. This course will expand basic journalism with particular emphasis on news, feature, and editorial writing, and students will have the opportunity to develop skills that can be used on the UIL team. Interview techniques will be refined through peer interview. Students will gain an understanding of the laws that govern the existence of free American press. Additional topics studied include careers in journalism, sports writing, digital photography techniques, newspaper layout, and yearbook design. This course serves as a prerequisite for yearbook and newspaper classes.

PREREQUISITE: Pre-AP English

Communication

Public Speaking 1 Honors (Sem 2)

Course Code: PUBSPH

Grade: 9-12

Credit: 0.5 (Honors)

Synopsis: Public Speaking Honors is the second half of Communication Application Honors. It continues addressing basic speech concepts, but also students in the honors class will be exposed to debate, more public speaking and development of critical and analytical listening and thinking skills. Participation in individual speaking/debate contests is encouraged.

COREQUISITES: If you take this course, you must also take COMAPH - Communication Application Honors

Debate 2 Honors

Course Code: DEB2H

Grade: 10-12

Credit: 1 (Honors)

Synopsis: This second-year course takes students deeper into the world of debate. Students will begin to specialize in their competitive speech and debate areas and receive more individual instruction. Students will simulate real debates and train for competition. Each student will train in debate and public speaking in order to become more advanced in argumentation, critical thinking, writing, and public speaking. Participation in individual speaking/debate contests is mandatory.

PREREQUISITES: DEB1H - Debate 1 Honors

Communication

Graphic Design & Broadcast - Newspaper 1

Course Code: NEWS1

Grade: 10-12

Credit: 1

Synopsis: Students will work with Adobe Software and visual design programs. Students will augment skills required to proceed with further professional growth in the communication design industry. The class will use the latest in Canon cameras combined with Photoshop, InDesign, Premiere, and Illustrator to explore the uses of technology in a modern world. Students will also work in conjunction with the LHS AV Department to build skills related to journalism in the broadcast field, including creating weekly broadcasts, editing news footage, and writing news for print and tv.

NOTE: Application Process. This course will require work outside of regular school hours, including some weekends. At times, travel outside of the district may be necessary to cover school sanctioned events.

PREREQUISITES: JOURNH - Journalism 1 Honors

Commercial Photography - Yearbook 1

Course Code: YEAR1

Grade: 10-12

Credit: 1 (Honors)

Synopsis: Students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs. The class will use the latest in Canon cameras combined with Photoshop, InDesign, and Illustrator to explore the uses of photography in the business and commercial world. Students will work with all elements of layout and design to create print and web-ready products.

PREREQUISITES: JOURNH - Journalism 1 Honors

Communication

Debate III Honors

Course Code: DEB3H

Grade: 11-12

Credit: 1 (Honors)

Synopsis: This third-year course takes students even deeper into the world of debate. Students will continue to specialize in their competitive speech and debate areas and receive more individual instruction. It is also important for students to embrace diversity in competitive situations. Students will simulate real debates and train for competition. Each student will train in debate and public speaking in order to become more advanced in argumentation, critical thinking, writing, and public speaking. Participation in individual speaking/debate contests is mandatory. Teacher approval and summer assignment will be required.

PREREQUISITES: PUBSPH - Public Speaking 1 H (Sem 2) or DEB2H - Debate II H

Graphic Design & Broadcast - Newspaper 2

Course Code: NEWS2

Grade: 11-12

Credit: 1 (Honors)

Synopsis: Students will work with Adobe Software and visual design programs. Students will augment skills required to proceed with further professional growth in the communication design industry. The class will use the latest in Canon cameras combined with Photoshop, InDesign, Premiere, and Illustrator to explore the uses of technology in a modern world. Students will also work in conjunction with the LHS AV Department to build skills related to journalism in the broadcast field, including creating weekly broadcasts, editing news footage, and writing news for print and tv. Application process required. This course will require work outside of regular school hours, including some weekends. At times, travel outside of the district may be necessary to cover school sanctioned events.

PREREQUISITES: JOURNH - Journalism 1 Honors or NEWS1 - Graphic Design & Broadcast - Newspaper 1

Communication

Commercial Photography - Yearbook 2

Course Code: YEAR2

Grade: 11-12

Credit: 1 (Honors)

Synopsis: Students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs. The class will use the latest in Canon cameras combined with Photoshop, InDesign, and Illustrator to explore the uses of photography in the business and commercial world. Students will work with all elements of layout and design to create print and web-ready products.

PREREQUISITES: JOURNH - Journalism 1 Honors or YEAR1 - Commercial Photography - Yearbook 1

Debate IV Honors

Course Code: DEB4H

Grade: 12

Credit: 1 (Honors)

Synopsis: This fourth-year course takes students even deeper into the world of debate. Students will continue to specialize in their competitive speech and debate areas and receive more individual instruction. It is also important for students to embrace diversity in competitive situations. Students will simulate real debates and train for competition. Each student will train in debate and public speaking in order to become more advanced in argumentation, critical thinking, writing, and public speaking. Students in this class will also gain experiences in mentoring. Finally, students will be able to take advantage of scholarship opportunities. Participation in individual speaking/debate contests is mandatory. Teacher approval and summer assignments will be required.

PREREQUISITES: DEB3H - Debate III H

Communication

Graphic Design & Broadcast - Newspaper 3

Course Code: NEWS3

Grade: 12

Credit: 1 (Honors)

Synopsis: Students will work with Adobe Software and visual design programs. Students will augment skills required to proceed with further professional growth in the communication design industry. The class will use the latest in Canon cameras combined with Photoshop, InDesign, Premiere, and Illustrator to explore the uses of technology in a modern world. Students will also work in conjunction with the LHS AV Department to build skills related to journalism in the broadcast field, including creating weekly broadcasts, editing news footage, and writing news for print and tv. This course will require work outside of regular school hours, including some weekends. At times, travel outside of the district may be necessary to cover school sanctioned events. Application process is required.

PREREQUISITES: JOURNH - Journalism 1 Honors or NEWS2 - Graphic Design & Broadcast - Newspaper 2 or NEWS1 - Graphic Design & Broadcast - Newspaper 1

Commercial Photography - Yearbook 3

Course Code: YEAR3

Grade: 12

Credit: 1 (Honors)

Synopsis: Students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs. The class will use the latest in Canon cameras combined with Photoshop, InDesign, and Illustrator to explore the uses of photography in the business and commercial world. Students will work with all elements of layout and design to create print and web-ready products.

PREREQUISITES: JOURNH - Journalism 1 Honors - or YEAR1 - Commercial Photography - Yearbook 1 or YEAR2 - Commercial Photography - Yearbook 2

Construction & Engineering

Engineering Design and Problem Solving - Honors

Course Code: ENGDP5

Grade: 12

Credit: 1

Synopsis: This is a course that introduces the concepts and practices that underlie careers in engineering and engineering technology. The course integrates technology, mathematics, and science into pre-engineering problem solving activities. Students acquire knowledge and skills in engineering problem solving and explore requirements for engineering careers.

PREREQUISITES: 1 high school elective credit in Science. Must have 80+ average in previous Physics course. ENGIN - Concepts of Engineering and Technology or ARCDDC - Architectural design TJC or ENGDDC - Engineering Design TJC.

English

English 1 Honors

Course Code: ENG1P

Grade: 9

Credit: 1 (Pre-Advanced Placement)

Synopsis: This course concentrates on the areas of reading, writing, speaking, and listening. In preparation for the English I End of Course exam and Advanced Placement courses, emphasis is placed on literary analysis and higher level critical thinking skills, writing, grammar, and vocabulary enrichment. This class is also designed to enhance discussion skills and provide evidence to support the ideas presented. Students will be required to read outside of the regular class time. A summer reading assignment is also required.

PREREQUISITES: Previous English course grade of 90+, teacher recommendation or Summer Reading required.

English 2 Honors

Course Code: ENG2P

Grade: 10

Credit: 1 (Pre-Advanced Placement)

Synopsis: Summer reading required. In Pre-AP English II, students will review writing skills and extend their study of vocabulary, the short story, novel, nonfiction, poetry, and drama. Students enrolled in Pre-AP English II should be highly motivated and self disciplined. The curriculum incorporates additional strategies to prepare the student for Advance Placement (AP) courses. Strong attention will be given to the development of composition, critical reading skills, and writing will support our literature study. For this class to be successful, we will read and write often. Some writing will be practice, and some writing will be revised and polished into final drafts. Through the writing process, we will examine our diction, syntactic structure, organization and balance, and our ability to create an effective piece of writing. Every day we will learn or practice a crucial facet of good writing and reading: rhetorical devices, argumentation appeals, style and grammar, analysis and interpretation. Outside reading assignments will continue throughout the year.

PREREQUISITES: Previous English course grade of 90+ (80+ for honors), teacher recommendation or must pass EOC Writing 1, Summer reading required.

English

AP English 3

Course Code: ENG3AP

Grade: 11

Credit: 1 (Advanced Placement)

Synopsis: The AP English Language and Composition course engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Being equivalent to a first-year college writing course, AP English Language and Composition emphasizes the expository, analytical, and argumentative writing that forms the basis of academic and professional communication as well as the personal and reflective writing that fosters the development of writing facility in any context. AP Language and Composition students will be required to complete a summer reading and writing assignment. Students enrolled in AP English III should be highly motivated and self disciplined. Since this course attempts to cover the necessities for a freshman level composition course, as well as an overview of a traditional American literature course, students can expect at least one to two hours of homework per week. While challenging, this course offers students an excellent opportunity to utilize style, individuality, and voice in their writing as well as prepares them for their future collegiate courses. Students will also have the opportunity to take the AP Language and Composition Exam at the end of the year to receive college credit.

PREREQUISITES: ENG2P - Pre AP English 2

English 3 Honors

Course Code: ENG3P

Grade: 11

Credit: 1 (Pre-Advanced Placement)

Synopsis: PreAP English III focuses on the advanced study of traditional and contemporary American Literature and nonfiction reading materials. This course provides additional depth of study in the development of advanced writing, analysis, and literary criticism skills beyond that required within the English III curriculum. Students will also develop advanced speaking, listening, and vocabulary skills. Pre AP English III is a comprehensive survey of American Literature from the Colonial period to the present day. Students in Pre AP English III will be expected to read and write more than students in academic English III and will have more opportunities to extend and reflect on what is being studied. Students in PreAP English III should expect outside reading and writing assignments. Summer assignments required.

English

AP English IV

Course Code: ENG4AP

Grade: 12

Credit: 1 (Advanced Placement)

Synopsis: English IV AP will give you the experience of a typical introductory college literature course. College readiness, writing skills, and research are essential elements of this course. English IV AP focuses on intensive reading and discussion of literature. Emphasis will be placed on thoughtful and cogent analysis of readings of different genres, periods, and cultures, considering a work's structure, style, and themes, as well as elements and devices such as figurative language, imagery, symbolism, and tone. Through the close reading of selected texts, students will deepen their understanding of the ways writers use language to create meaning. Reading in the course builds on the reading done in previous English courses. Students will learn to read deliberately and thoroughly, taking time to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form. Students will also learn to consider the social and historical values a work reflects and embodies. Careful attention to both textual detail and historical context provides a foundation for interpreting a text. Writing assignments in the course will address the critical analysis of literature and will include expository, analytical, argumentative essays, and some creative writing. The goal of writing in this course is to increase the student's ability to explain clearly their analysis of literary works and how they interpret them. Summer reading and research/analysis assignments are a requirement for the course. Since this is a college level course, homework assignments including independent reading, journals, and research based papers should be expected. Teacher approval is required. Summer assignments required.

Fine Arts

AP Music Theory

Course Code: APMUSI

Grade: 11-12

Credit: 1 (Advanced Placement)

Synopsis: The AP Music Theory course resembles that of a college freshman year theory course. Significant critical, analytical, and creative thinking skills are nurtured in all parts of the course, especially when learning texture, harmonic progression, formal structuring, and style. AP examination questions emphasize the synthesis of musical knowledge into useable musical understanding, asking questions that require a high level of comparison and analysis. Additionally, this advanced theory course is designed for all students musicians, not exclusively students who will go on to major in music. As a result, the subject matter is wider than required by the AP Music Theory examination. This course incorporates the analysis of music, including melody, rhythm, harmony, texture, form, timbre and expression with composition along with history and style. Musicianship skills such as dictation, audiation, sight-singing, rudimentary piano skills, and using music technology are developed within the scope of the curriculum. The student's prior ability to read and write musical notation is highly recommended but not required. It is highly recommended that the student have acquired some basic performance skills on an instrument or with the voice. With choir director approval only.

Theatre Arts 4 - Honors

Course Code: THTR4H

Grade: 12

Credit: 1 (Honors)

Synopsis: Students are given varied responsibilities in many areas of theatre, including directing, technical theatre and organization. Projects are completed throughout the school year, such as play reports, building of set pieces, and a variety of performances. Participation in at least one theatre festival or contest is required.

PREREQUISITES: THTR3 - Theatre Arts 3

Foreign Languages

Spanish 1 Honors

Course Code: SPAN1H

Grade: 10-11

Credit: 1 (Honors)

Synopsis: The students will be introduced to the foundations of the Spanish language with emphasis on speaking and listening skills, the written language and cultural experiences. No prior Spanish experience necessary for this Honors course. 90+ average in current English course with the intent to take Honors Spanish 2.

Spanish 2 Honors

Course Code: SPAN2H

Grade: 10-12

Credit: 1 (Honors)

Synopsis: The students will build on the foundations established in Spanish 1 to further improve the student's abilities to use in an everyday situation. The students will learn to use a number of tenses in Spanish and a more advanced level of communication and comprehension.

PREREQUISITES: SPAN1 - Spanish 1 or SPAN1H - Spanish 1 Honors

Mathematics

Algebra 1 Honors

Course Code: ALG1P

Grade: 9

Credit: 1 (Pre-Advanced Placement)

Synopsis: Pre-AP Algebra I is a rigorous course designed for highly motivated students showing an aptitude in mathematics. This course covers the same concepts as Algebra I. The content is studied in greater depth and may include additional topics. Additionally, students will be expected to complete a summer assignment, which will be due the first day of school. Must have a 90+ average in 8th grade Math and Teacher Approval.

Geometry Honors

Course Code: GEOMP

Grade: 9-10

Credit: 1 (Pre-Advanced Placement)

Synopsis: Pre-AP Geometry is a rigorous course designed for highly motivated students who are planning to take a college bound math course such as Calculus. This in-depth enrichment course goes beyond the requirements of Geometry with a heavy emphasis on critical thinking skills. Additionally, students will be expected to complete a summer assignment, which will be due the first day of school. Summer Assignment Required.

PREREQUISITES: Previous math course grade of 90+ (80+ for Alg 1 in JH), teacher recommendation.

Mathematics

Algebra 2 Honors

Course Code: ALG2P

Grade: 10-12

Credit: 1 (Pre-Advanced Placement)

Synopsis: Pre-AP Algebra II is a rigorous course designed for highly motivated students who are planning to take the college bound math courses such as Calculus. This in-depth enrichment course goes beyond the requirements of Algebra II with a heavy emphasis on concepts that ready the student for upper level math. Additionally, students will be expected to complete a summer assignment, which will be due the first day of school. Students are required to take Algebra 2 to get into a Texas four-year university. It is also required for several Texas grant programs. Any student considering a Texas university for their post secondary education is required to take this course.

PREREQUISITES: Previous math course grade of 90+ (80+ for honors), teacher recommendation.

Pre-Calculus Honors

Course Code: PCALP

Grade: 11-12

Credit: 1 (Pre-Advanced Placement)

Synopsis: This course is developed for those students who are planning to take Calculus the next year. Precalculus is a rigorous course for those students who are above average math students. This in-depth enrichment course goes beyond the requirements of Precalculus with a heavy emphasis on concepts that ready the student for Calculus. A teacher recommendation is strongly encouraged for students who have not successfully completed the Pre-AP prerequisite courses. Additionally, students will be expected to complete a summer assignment, which will be due the first day of school.

Prerequisites: ALG2P - Pre-AP Algebra 2 or ALG2 - Algebra 2

Mathematics

AP Statistics

Course Code: APSTATS

Grade: 12

Credit: 1 (Advanced Placement)

Synopsis: AP Statistics is equivalent to a one semester, introductory, non-calculus based, college course in statistics. This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. AP statistics is a college level class for student who have been highly successful in Algebra II and English courses. It covers the topics needed for the American College Board AP Statistics exam. Students passing this test may receive college credit. Summer Assignment required. If class does not make, you will be moved to AP Calculus.

AP Calculus AB

Course Code: CALCAP

Grade: 12

Credit: 1 (Advanced Placement)

Synopsis: A full-year course that is comparable to one semester of college calculus. The scope of the course includes concepts associated with the study of elementary functions, limits of functions, derivatives, techniques of integration, and transcendental functions. During the summer, students are encouraged to complete an optional review packet to maintain algebraic and trigonometry skills. Students have the opportunity to take an AP exam that can award college credit, based on the score of the exam. Summer assignment required.

Prerequisite: PCALP - Pre-AP Pre-Calculus or ALG1 - Algebra 1 or GEOM - Geometry or ALG2 - Algebra 2

Science

Biology Honors

Course Code: BIOLH

Grade: 9-12

Credit: 1 (Pre-Advanced Placement)

Synopsis: This course is designed for the college-bound student motivated to study at a faster pace. This course exceeds the concepts and depth of a standard course. Students conduct laboratory and field investigations, use scientific methods during investigation, and make informed decisions using critical thinking and scientific problem solving. Students will study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution, taxonomy; Metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment. Summer Assignment Required.

Prerequisite: Current enrollment in Pre-AP Algebra 1 or successful completion of Algebra 1 in 8th grade or 80+ in 8th grade Science.

Chemistry Honors

Course Code: CHEMA

Grade: 10-11

Credit: 1 (Pre-Advanced Placement)

Synopsis: Honors Chemistry is a challenging course for the self-motivated, college-bound student, who is seriously responsible for their school work. It requires a strong math background, considerable time spent out of class on assignments and good attendance. This course exceeds the concepts and depth of a standard course. Students conduct laboratory and field investigations, use of scientific methods during investigation, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the periodic table, development of atomic theory, chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives. Summer Assignment Required.

Prerequisite: Must have earned 80+ in Biology Honors or 90+ in Biology. Biology 1, Algebra 1

Science

AP Biology

Course Code: APBIO1

Grade: 11-12

Credit: 1 (Advanced Placement)

Synopsis: The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and an appreciation of science as a process. The ongoing knowledge explosion in biology makes these goals even more challenging. This course is designed for the college-bound student motivated to study at a faster pace. This course exceeds the concepts and depth of a standard course. Students conduct laboratory and field investigations, use scientific methods during investigation, and make informed decisions using critical thinking and scientific problem solving. There are 3 major areas explored in AP Biology. (Molecules & Cells 25%/Heredity & Evolution 25%/Organisms & Populations 50%) (Subject to Universities discretion)

Prerequisite: THEA Test (must pass reading), IPC or Physics, Biology, Chemistry, 3 Math credits

AP Chemistry

Course Code: CHEMAP

Grade: 11-12

Credit: 1 (Advanced Placement)

Synopsis: This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. AP Chemistry emphasizes chemical reactions and mathematical calculations. Students will study a wide variety of topics such as: Matter, Atomic Theory, Chemical Reactions, Stoichiometry, Thermochemistry and Nuclear Chemistry. Students will attain a greater depth of understanding of fundamentals of chemistry along with an improved ability to think clearly and express ideas orally and in writing with clarity and logic. AP chemistry is a fast-paced course that differs from general chemistry in the number and depth of topics, time spent on the course and the number and types of laboratory experiments.

Prerequisite: Must have had an 80+ in Honors Chemistry or a 90+ in Chemistry; CHEM or CHEMP

Science

AP Physics 1

Course Code: PHYAPA

Grade: 11-12

Credit: 1 (Advanced Placement)

Synopsis: AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. **COURSE NOTE:** Suggested completion of Algebra 2; Seniors coming regular Physics will require grade and teacher recommendation.

Prerequisite: CHEMP - Chemistry Pre-AP or GEOMP - Pre-AP Geometry

Anatomy and Physiology (CTE) / Anatomy and Physiology 1

Course Code: A&PS1

Grade: 12

Credit: 1 (Honors)

Synopsis: Students will know how science has built a vast body of changing and increasing knowledge described by physical, mathematical, and conceptual models, and that Science may not answer all questions. Students will study a variety of topics that include: Energy needs of the human body, responses to internal and external forces, processes that maintain homeostasis, electrical conduction processes and interactions; transport systems, environmental factors, anatomical structures, reproduction, growth and development. Honors credit only. No Dual Credit.

Prerequisite: TSI Test (must pass reading), IPC or Physics, Biology, Chemistry, 3 Math Credits

Science

Engineering Design and Problem Solving - Honors

Course Code: ENGDPS

Grade: 12

Credit: 1 (Honors)

Synopsis: This is a course that introduces the concepts and practices that underlie careers in engineering and engineering technology. The course integrates technology, mathematics, and science into pre-engineering problem solving activities. Students acquire knowledge and skills in engineering problem solving and explore requirements for engineering careers. ***Credit: 1 high school elective credit; Science Credit. Must have 80+ avg. in previous Physics course. **COURSE NOTE:** Need to have 80+ in PAP Physics. Must have taken 2+ courses in the Engineering career track to count as science credit or by application process with Mr. Walton.

Prerequisite: ENGIN - Concepts of Engineering and Technology or ARCDDC - Architectural Design TJC or ENGDDC - Engineering Design TJC

AP Physics 2

Course Code: PHY2AP

Grade: 12

Credit: 1 (Advanced Placement)

Synopsis: AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: fluids; thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics. The course is based on seven big ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world.

Prerequisite: Must have had AP Physics 1, and should have taken or be concurrently taking Pre-Cal.

Science

AP Physics C

Course Code: PHYSAP

Grade: 12

Credit: 1 (Advanced Placement)

Synopsis: AP Physics C Electricity and Magnetism is a calculus based physics course that is equivalent to a first year college physics course for engineering and science majors. Students will study mechanics which includes the following areas; kinematics; Newton's laws of motion, work, energy, and power; systems of particles and linear momentum; circular motion and rotation, oscillations, and gravitation. The course will also include a hands-on laboratory component comparable to a semester-long introductory college-level physics laboratory. Must have had 80+ Avg. in AP Physics 1 AND concurrently enrolled in Calculus.

Prerequisite: 80+ in Pre-AP Physics or preferably concurrent with AP Calculus.

Social Studies

World Geography Honors

Course Code: WGEOH

Grade: 9

Credit: 1 (Pre-Advanced Placement)

Synopsis: In World Geography Honors, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of world population; relationships among people, places, and environments; and the concept of region. Students must be committed to participating in rigorous coursework involving independent study, individual and group projects, and class presentations. Research reports and creative projects will be required. Selected works of literature and primary sources will be required readings. **COURSE NOTE:** Previous social studies course grade of 90+ and teacher recommendation.

World History Honors

Course Code: WHISTH

Grade: 10-12

Credit: 1 (Pre-Advanced Placement)

Synopsis: World History Honors offers students an overview of the entire history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students must be committed to participating in rigorous coursework involving independent study, individual and group projects, and class presentations. Research reports and creative projects will be required. Selected works of literature and primary sources will be required readings. Previous social studies course grade of 90+ (80+ for honors), teacher recommendation.

Social Studies

AP World History

Course Code: WHISAP

Grade: 10

Credit: 1 (Advanced Placement)

Synopsis: AP World History is recommended for those who have a love for reading and a love of history. This is taught as a VERY RIGOROUS COLLEGE LEVEL course with extensive reading and an extensive summer assignment. Target audience would be those high-ranking students with an AP background and an A in previous social studies course. **COURSE NOTE:** Extensive summer assignment required.

AP United States History

Course Code: USH1AP

Grade: 11

Credit: 1 (Advanced Placement)

Synopsis: The AP U.S. History course focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) that students explore throughout the course in order to make connections among historical developments in different times and places. **COURSE NOTE:** Summer assignment required. Follows Advanced Placement Curriculum including accelerated rigor and content.

Prerequisites: WHISTH - World History Honors or WHISAP - AP World History

Social Studies

AP Economics

Course Code: ECONAP

Grade: 12

Credit: 0.5 (Advanced Placement)

Synopsis: AP Macroeconomics is an introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. Summer assignment required. **COURSE NOTE:** Summer assignment required. Paired with AP GOVT.

Corerequisites: If you take this course, you must also take GOVTAP - AP Government

AP Government

Course Code: GOVTAP

Grade: 12

Credit: 0.5 (Advanced Placement)

Synopsis: This course will be paired with the Dual Credit Economics course. Both Government and Economics are graduation requirements. AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they complete a political science research or applied civics project. Summer assignment required. **COURSE NOTE:** 90+ in your last Social Studies class required. Summer assignments expected.

Corerequisites: If you take this course, you must also take ECONAP - AP Economics

Technology Communications

Graphic Design and Broadcast - Newspaper 1

Course Code: NEWS1

Grade: 10-12

Credit: 1

Synopsis: Students will work with Adobe Software and visual design programs. Students will augment skills required to proceed with further professional growth in the communication design industry. The class will use the latest in Canon cameras combined with Photoshop, InDesign, Premiere, and Illustrator to explore the uses of technology in a modern world. Students will also work in conjunction with the LHS AV Department to build skills related to journalism in the broadcast field, including creating weekly broadcasts, editing news footage, and writing news for print and tv.

COURSE NOTE: Application Process. This course will require work outside of regular school hours, including some weekends. At times, travel outside of the district may be necessary to cover school sanctioned events.

PREREQUISITES: JOURNH - Journalism 1 Honors

Commercial Photography - Yearbook 1

Course Code: YEAR1

Grade: 10-12

Credit: 1

Synopsis: Students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs. The class will use the latest in Canon cameras combined with Photoshop, InDesign, and Illustrator to explore the uses of photography in the business and commercial world. Students will work with all elements of layout and design to create print and web-ready products.

PREREQUISITE: JOURNH - Journalism 1 Honors

Technology Communications

Computer Science 2

Course Code: COMPR2

Grade: 11-12

Credit: 1

Synopsis: Students expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions. Students will apply advanced programming skills in a project-based environment utilizing both group and individualized settings to develop applications and programs that can be used in business, education and entertainment segments.

Graphic Design and Broadcast - Newspaper 2

Course Code: NEWS2

Grade: 11-12

Credit: 1

Synopsis: Students will work with Adobe Software and visual design programs. Students will augment skills required to proceed with further professional growth in the communication design industry. The class will use the latest in Canon cameras combined with Photoshop, InDesign, Premiere, and Illustrator to explore the uses of technology in a modern world. Students will also work in conjunction with the LHS AV Department to build skills related to journalism in the broadcast field, including creating weekly broadcasts, editing news footage, and writing news for print and tv.

NOTE: Application Process. This course will require work outside of regular school hours, including some weekends. At times, travel outside of the district may be necessary to cover school sanctioned events.

PREREQUISITE: JOURNH - Journalism 1 Honors or NEWS1 - Graphic Design & Broadcast - Newspaper 1

Technology Communication

Commercial Photography - Yearbook 2

Course Code: YEAR2

Grade: 11-12

Credit: 1

Synopsis: Students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs. The class will use the latest in Canon cameras combined with Photoshop, InDesign, and Illustrator to explore the uses of photography in the business and commercial world. Students will work with all elements of layout and design to create print and web-ready products.

PREREQUISITE: JOURNH - Journalism 1 Honors or YEAR1 - Commercial Photography - Yearbook 1

Graphic Design and Broadcast - Newspaper 3

Course Code: NEWS3

Grade: 12

Credit: 2

Synopsis: Students will work with Adobe Software and visual design programs. Students will augment skills required to proceed with further professional growth in the communication design industry. The class will use the latest in Canon cameras combined with Photoshop, InDesign, Premiere, and Illustrator to explore the uses of technology in a modern world. Students will also work in conjunction with the LHS AV Department to build skills related to journalism in the broadcast field, including creating weekly broadcasts, editing news footage, and writing news for print and tv.

NOTE: This course will require work outside of regular school hours, including some weekends. At times, travel outside of the district may be necessary to cover school sanctioned events. Application process required.

PREREQUISITE: JOURNH - Journalism 1 Honors or NEWS2 - Graphic Design & Broadcast - Newspaper 2 or NEWS1 - Graphic Design & Broadcast - Newspaper 1

Technology Communication

Commercial Photography - Yearbook 3

Course Code: YEAR3

Grade: 12

Credit: 1

Synopsis: Students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs. The class will use the latest in Canon cameras combined with Photoshop, InDesign, and Illustrator to explore the uses of photography in the business and commercial world. Students will work with all elements of layout and design to create print and web-ready products.

PREREQUISITES: JOURNH - Journalism 1 Honors or YEAR1 - Commercial Photography - Yearbook 1 or YEAR2 - Commercial Photography - Yearbook 2