

## LEVEL II ELECTIVE COURSE OFFERINGS

Listed below are Level II elective options for Lanier High School students. Each course either has a pre-requisite, requires an application, or requires sponsor approval. Please see the teacher listed to register for the course.

**All courses are yearlong, and students may not change electives at the semester break.**

**Acting:** Theatre Fundamentals or participation in two afterschool shows is a pre-requisite. Students acquire skills in role analysis, character development, vocal techniques, and communication of a text. Students produce two shows a year. See Ms. Lance (room 607) to register.

**Advanced Drama:** This course is for the experienced student performer or technician and includes the design and implementation of technical aspects of a major production. In addition, students learn theatre management techniques. This course produces multiple shows a year. Theatre Fundamentals or previous participation in two after school shows is a pre-requisite. Students must also audition to be registered. See Ms. Lance (room 607) to register.

**Advanced Placement Art History:** AP Art History is an introductory, college-level art history course. Students cultivate their understanding of art history through analyzing works of art and placing them in historical context as they explore concepts like culture and cultural interactions, theories and interpretations of art, the impact of materials, processes, and techniques on art and art making, and understanding purpose and audience in art historical analysis. See Ms. Jaunais (room 604) or your social studies teacher to register. Signed AP contract required.

**Advanced Placement Chemistry:** AP Chemistry is a challenging course that explores the intricacies of matter and energy. It covers atomic and molecular principles, chemical reactions, equilibrium, kinetics, and thermodynamics. Students develop problem-solving skills and gain a deeper understanding of the periodic table. The course includes hands-on experiments, mathematical analysis, and critical thinking, equipping students with valuable scientific knowledge. This course is a 2<sup>nd</sup> year chemistry course. See Mr. Cook (Room 102) to register. Signed AP contract required.

**Advanced Placement Computer Science A:** Students who have done well in Algebra II and higher math classes and like to “figure things out” would do very well in AP Computer Science A, learning the Java programming language. This course usually follows AP Computer Science Principles, but that is not required. Permission of the instructor is also an option. See Mr. Reilly (723) to register. Signed AP contract required.

**Advanced Placement Computer Science Principles:** Computer science is everywhere, from our smartphones and video games to music, medicine, and much more. AP Computer Science Principles (AP CSP) can help you understand how computing and technology influence the world around you. Learn how to address real-world issues while using the same tools and processes that artists, writers, computer scientists, and engineers use to bring ideas to life. This is about how programming is used, with only some emphasis on programming itself. Introduction to Software Technology is a prerequisite class. See Mr. Reilly (723) or Mr. Becker to register. Signed AP contract required.

**Advanced Placement Environmental Science:** This college-level course is designed to prepare students to take the Advanced Placement Environmental Science Exam. However, you get to have class taught at our outdoor classroom. We conduct air and water samples and catch bugs at our school stream. We test your car exhaust for pollutants, we conduct a trash lab and much more. There are 2 field trips, one to an organic farm and the other to John's Creek environmental campus. You learn real science skills and discuss solutions to many of our environmental problems. This class can satisfy 4th science course requirements. Signed AP Contract required. See Mrs. Lanio (room 805) or your science teacher to register.

**Advanced Placement European History:** This is an introductory college-level European history course covering the time period 1450-to present. Students cultivate their understanding of European history through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like interaction of Europe and the world; economic and commercial developments; cultural and intellectual developments; states and other institutions of power; social organization and development; national and European identity; and technological and scientific innovation. The AP Exam is the same format as the AP World and US History Exam. The pre-requisite is AP World History or AP US History. See your social studies teacher or Ms. Byrand in room 815 to register.

**Advanced Placement Human Geography:** This is a college-level course which travels well beyond the simple memorization of geographic facts and figures. This course teaches why and how things happen around the world, and how they are connected. Demographics, migrations, linguistics, political geography, religion, urbanization, agriculture, and industrialization will be covered. See your social studies teacher or Ms. Byrand (room 815) to register. Open to rising juniors and seniors - signed AP contract is required.

**Advanced Placement Music Theory:** The AP Music Theory course corresponds to one or two semesters of a typical introductory college music theory course that covers topics such as musicianship, theory, musical materials, and procedures. Musicianship skills, including dictation and other listening skills, sight singing, and harmony are considered an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard or presented in a score. See a music teacher or Dr. Castner (room 602) to register.

**Advanced Placement Physics C: Mechanics:** This is a college level course. AP Physics 1 and Calculus are required pre-requisites. This course covers a full year of college level calculus-based physics. See Mr. Barnette (room 707) to register. Signed AP contract is required.

**Advanced Placement Psychology:** This class studies the behavior and mental processes of humans and other animals. The course is taught at a college level and gives students an opportunity to learn about why we think and do what we think and do. See your science or social studies teacher or Mr. Jones (room 820) to register. Signed AP contract required. Course open to juniors and seniors, only.

**Advanced Placement Studio Art:** In this college-level course, students will explore drawing techniques including line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth and mark-making through a variety of means, such as painting, printmaking, or mixed media. A portfolio is developed and submitted. See Ms. Hewlett (room 605) or Ms. Jaunais (room 604) to register. Signed AP contract required.

**Audio, Video & Film II/III (Video Production):** AVF II will continue with the Georgia Film Academy curriculum. While learning the GFA curriculum students will create a variety of films and will continue learning Adobe Premiere Pro. AVF III students will work in production teams modeling the film industry and apply the GFA curriculum from AVF II. Students in AVF III will be preparing for the Adobe Premiere Pro certification exam, while they create a variety of content. See Mr. Phillips (room 100B) to register.

**Band (intermediate, advanced, percussion ensemble):** In these courses, students develop music reading skills, instrumental music techniques and knowledge of repertoire appropriate to the instrument studied. Some public performance is expected. See Mr. Tingle (Room 603) to register for the appropriate band course.

**Ceramics/Pottery:** Students will develop creative solutions to ceramic pottery using a variety of media and techniques. Students will use hand building methods and will learn to throw on the potter's wheel. Students will use specialized vocabulary to analyze critically and evaluate artworks, as well as learn to properly display and exhibit artworks. Visual Art Comp I/II is a pre-requisite. See Ms. Hewlett (room 605) or Ms. Jaunais (room 604) to register.

**Chorus (Intermediate, Advanced, and Mastery Chorus):** These courses continue the development of vocal techniques and performance skills using a variety of choral literature. See Dr. Castner (Room 602) to register for the appropriate choral course.

**Contemporary Issues in Education:** This course engages the candidate in a variety of classroom observations, interactions, and analyses of critical and contemporary educational issues. Students will gain experience in multi-level classrooms: leading small groups, facilitating study reviews, creating study tools, and conducting group & individual presentations. Emphasis is placed on discovery of multiple careers in education and/or with children (think counseling, social work, pre-law), writing lesson plans, creating and implementing assessments, and learning best practices in the classroom for creating optimal positive learning. Examining the Teaching Profession is a pre-requisite. See Mr. Johansen (room 401) to register.

**Crafts:** Art of Crafts is a craft-based art course intended for students who are interested in the creative process, but not interested in the fine art aspect (drawing/painting). Students will learn about the art and craft of various cultures while creating works of art. Students will get to experience working with a variety of different mediums such as paint, clay, fabric, metal, wood, and yarn, while learning multiple studio techniques. Visual Art Comp I/II is a pre-requisite. See Ms. Hewlett (room 605) or Ms. Jaunais (room 604) to register.

**Drawing and Painting I, II:** Introduces drawing and painting techniques and a variety of drawing and painting media. Stresses critical analysis of master paintings and drawings of different styles and historical periods; emphasizes problem-solving techniques to achieve desired results in personal work. Visual Art Comp I/II is a pre-requisite. See Ms. Hewlett (room 605) or Ms. Jaunais (room 604) to register.

**Engineering Applications:** This is the third course in the Engineering pathway, with a focus on FIRST Robotics. Engineering Concepts is a pre-requisite. See Mr. Reilly (room 723) or Mr. Hallford (room 733) to register.

**Engineering Concepts** —Engineering Concepts is the second course in the Engineering pathway. This course introduces students to the fundamental principles of engineering. Students learn about areas of specialization within engineering and engineering design and apply engineering tools and procedures as they complete hands-on instructional activities. Students will be expected to participate in an extracurricular activity FIRST Robotics, or more. Foundations of Engineering and Technology is a pre-requisite. See Mr. Reilly (room 723) or Mr. Hallford (room 733) to register.

**Essentials of Healthcare:** This course is a medical-focused Anatomy and Physiology course addressing the structure and function of each body system, along with the investigation of common diseases, disorders, and injuries. The prevention of disease and the diagnosis and treatment are addressed, along with medical terminology related to each system. This course prepares students to be successful in the end of pathway Exercise Physiology course. In addition, students will receive Anatomy & Physiology course credit as their 4th science by taking this course. Introduction to Healthcare Science is a required pre-requisite. See Ms. Ahmad-Harris (room 301) or Mr. Spence (room 701) to register.

**Food for Life:** In this class, students learn about nutrient requirements from conception to adulthood. Food, Nutrition, and Wellness is a pre-requisite. This class can satisfy 4<sup>th</sup> science course requirements. See Ms. Brooks (Room 212) or Dr. Stults (Room 203).

**Food Science:** In this class, students experience a chemistry-based evaluation of food and nutrients, cooking, food preservation, and new products. Chemistry is a pre-requisite. This class can satisfy 4<sup>th</sup> science course requirements. Participation in Food, Nutrition and Wellness and Food For Life is strongly encouraged. See Ms. Brooks (Room 212), Dr. Stults (Room 203) or your current Physics teacher to register.

**French II (College Prep or Honors/Gifted level):** Building on the background of French I, the student will learn to interact in more complex situations, read more complicated materials and write more extended messages. Cultural understanding increases through reading and discussion of authentic documents. See your current French teacher to register.

**French III (College Prep or Honors/Gifted level):** The students will learn to give detailed information, narrate events, read authentic texts, and handle more challenging situations in French. In addition, students will continue to develop a deeper understanding of Francophone culture. See your current French teacher to register.

**French IV (Honors):** The student will refine his/her communicative ability and build vocabulary, allowing him/her to converse in a variety of situations and comprehend a variety of fiction and non-fiction texts. Cultural understanding remains an important goal throughout the entire sequence of French language study. See your current French teacher to register.

**Fundamentals of Exercise Physiology:** As the third course in the Physical Medicine/Exercise Physiology Career Pathway (prerequisites: Introduction to Healthcare and Essentials of Healthcare Science), this course is appropriate for students wishing to pursue a career in personal training or who want to know more about human physiology. The course will enable students to perform fitness assessments, according to current guidelines, and to use data to develop exercise and training routines, fitness plans, and nutritional programs to fit the needs of clients. See Ms. Ahmad-Harris (Room 301) or Mr. Spence (Room 701) for information.

**Game Design: Animation and Simulation:** Students will not just program games, but they will learn about the game design process and project management. This course also covers animation and game physics. Students will develop 3D models for games and design character animations. The primary development tool used will be the Unity game engine. Some familiarity with programming is assumed. Most programming will be done in C#. AP Computer Science Principles is a prerequisite. See Mr. Reilly (room 723) to register.

**Lifetime Sports:** This course is an advanced-level PE course open to students involved in the football program. See Coach Dunning or Coach Maloof (field house) to register.

**Longhorn Athlete-Only PE:** This course is reserved for LHS athletes only, and will focus on speed, strength, and agility training to improve performance in all sports. Teams will be grouped together (as much as possible) and there will be separate classes for male and female athletes. See Ms. Stiltner or your coach to register.

**Marketing & Entrepreneurship:** Entrepreneurship focuses on recognizing a marketing opportunity, starting a business, operating, and maintaining a business. Students will be exposed to the development of critical thinking, problem solving, and innovation in this course as they will either be the business owner or individuals working in a competitive job market in the future. Marketing Principles is a pre-requisite. See Mr. Deppe (Room 501) to register.

**Marketing Management:** This is the third course in the Marketing and Management pathway. Students learn management techniques and marketing skills as they run the school store, the Saddle Shack. Students prepare inventory, place orders, receive stock, merchandise products, and create marketing projects. Marketing Principles and teacher approval are pre-requisites for this course. See Mr. Deppe (Room 501) to register.

**Music Technology (Intermediate, Advanced, and Mastery):** In the upper-level courses, students will dive deeper into the audio production techniques and careers discussed during Beginning Music Technology. Instruction is personalized and project-based, allowing each student to design and create their own assignments to demonstrate their mastery of the content. Completion of the pathway will include the release of a demo and a capstone presentation. Beginning Music Technology is a prerequisite. See Mr. Robinson in room 100A to register.

**Newspaper:** Students will use the skills they acquired in Journalism 1 to run the online student news site, *The Lanier Times*. The class mimics a real-world newsroom where students will write stories, interview, take photography, and meet deadlines all while publishing an up-to-date, ongoing work. See Ms. Vandervalk in room 203 to register.

**Orchestra (Intermediate, Advanced, Mastery):** Students will review and acquire ensemble rehearsal and performance skills on the violin, viola, cello and/or string bass. Through performance, students will refine the following skills: note reading, bow technique, scale study, vibrato, and various left-hand position techniques. Student ensembles will perform a wide range of orchestral repertoire 3-5 times per school year. Please see Mrs. Wood in the orchestra room (601) to register!

**Peer Facilitation I:** This course provides juniors and seniors with an opportunity to participate in service-learning opportunities during the school day. In addition, students will participate in conflict resolution activities. Application and instructor approval required. See Ms. Burrell (student services) to register.

**Peer Facilitation IV:** This course is open to seniors in good academic standing. Peer Facilitation IV is an online elective focused on post-secondary preparation, academy-based career research, and leadership development. See your 11<sup>th</sup> grade language arts teacher to register.

**Peer Leadership:** This class supports the Lanier Student Leadership Team. Peer leaders oversee freshmen mentoring, help with cluster events, and participate in initiatives to benefit the Lanier community while also improving their own leadership. Registration by application for rising juniors and seniors. See Mr. Jones in Room 820 to register.

**Photography:** Students will develop creative solutions to photography using a variety of techniques and tools. Students will learn the parts of the camera, dark room developing skills, principles of photography and learn photoshop applications. Students use specialized vocabulary to analyze critically and evaluate artworks, as well as learn to properly display and exhibit photographs. Visual Art Comp I/II is a pre-requisite. See Ms. Hewlett (room 605) or Ms. Jaunais (room 604) to register.

**Piano (Intermediate or Advanced):** Continuation of the keyboarding skills covered in Beginning Piano. See any music teacher to register.

**Portuguese I:** Portuguese 1 is open to any student who has studied 3 years of either Spanish or French or is a Native Speaker of Spanish. This is an introductory level course that uses students' previous foreign language experience to learn basic structures and vocabulary in Portuguese more quickly. There is an emphasis on writing and speaking in the classroom and the cultural focus is on Brazil. See your current Foreign Language teacher to register.

**Science and Engineering Research:** Science and Engineering Research is a class aimed at imparting skills for research, problem solving, and presentations. Students will be tasked with meeting deadlines in the process with a requirement of participation in the science fair. Interested students should demonstrate excellent self-management skills and be able to meet deadlines to show their progress. To apply, see your science teacher or a CDAT teacher..

**Spanish II (College Prep or Honors/Gifted level) :** Building on the background of Spanish I, students will learn to interact in more complex situations, read more complicated materials and write more extended messages. Cultural understanding increases through reading and discussion of authentic documents. See your current Spanish teacher to register.

**Spanish III (College Prep or Honors/Gifted level):** Students will learn to give detailed information, narrate events, read authentic texts, and handle more challenging situations in Spanish. In addition, students will continue to develop a deeper understanding of the cultures of the Spanish-speaking world. See your current Spanish teacher to register.

**Spanish IV (Honors):** The student will refine his/her communicative ability and build his/her vocabulary, allowing him/her to converse in a variety of situations and comprehend a variety of fiction and non-fiction texts. Cultural understanding remains an important goal throughout the entire sequence of Spanish language study. See your current Spanish teacher to register.

**Spanish for Native Speakers II/III:** These courses are a continuation of the AKS covered in Spanish For Native Speakers I. Native speakers are provided an opportunity to maintain oral competency in the Spanish language and to acquire a more sophisticated level of competency in reading and writing. Students also gain a deeper understanding of the native culture and cultures of other Spanish-speaking countries.

**Teaching as a Profession Practicum:** This is the final course for the Teaching as a Profession pathway. Students create a portfolio demonstrating their understanding of concepts throughout the pathway and work with a mentor teacher on a regular basis. See Mr. Johansen (room 401) to register.

**Technical Theater (I, II, or III):**This course examines the behind-the-scenes elements of theater as well as theatre terminology. Students will cover set building, set design, costume creation, prop creation & management, basic lighting and sound design, and stage management. Students will work in a project-centered environment working to support the

multiple shows other classes and the drama club are producing. Theatre Fundamentals, Visual Art Composition I/II, Audio/Visual Technology, Music Technology, or CDAT 9 is a pre-requisite. See Ms. Lance (room 607), your art teacher, CDAT teacher, Music Tech teacher, or AV Tech teacher to register.

**Work-Based Learning:** Students learn career skills while working. Leave school early or come in late, get paid, and earn high school credit. Earn money or choose a non-paid internship (volunteer). This program is open to juniors, and seniors who will be 15 or older in August, have reliable transportation, and have a stable job offering work 5-25 hours per week. See Dr. Kay [Jim.Kay@gcpsk12.org](mailto:Jim.Kay@gcpsk12.org) for an application.

**Yearbook:** *Made For Students By Students* is the motto of Lanier's Yearbook program. As a staff member, you will help design and create the school's Yearbook applying your interview, writing, photography, and design skills. We also focus on project management skills you can take into the real world. See Ms. Vandervalk or Mr. Phillips to register. Journalism I is a pre-requisite.