

# 2018-2019 Course Catalog

## Wichita Collegiate Upper School

Wichita Collegiate School's curriculum is based on the classical liberal arts tradition that has guided independent schools for generations. Each graduate completes a broadly-based curriculum with an intensive study of literature, history, mathematics, laboratory science and foreign language. In addition, every student receives exposure to music, art, computer, and physical education. Our academic goal is to provide each Collegiate student with the best preparation possible for a rigorous undergraduate experience at a college of his or her choice. To achieve this goal, our curriculum consists of prescribed coursework in the following areas:

### **DEPARTMENT REQUIREMENTS**

**ENGLISH** English I, English II, AP English Composition & Literature I, and AP Literature & Composition II.

**MATHEMATICS** Algebra I, Algebra II, Geometry, and one higher-level course (specific courses described in Mathematics section)

**HISTORY** World Cultures & Geography, AP United States History, Globalization & History, Humanities and one additional courses (Economics, AP Government, Economics/Government [summer only], or History Seminar)

**SCIENCE** Students are required to have completed biology, Chemistry, and one of the following courses: Physics, AP Physics: Mechanics, AP Physics: Electricity and Magnetism, Advanced Bio/Chem Research, Computer Programming, AP Computer Programming, or an approved Innovation Lab/Technology course.

**FOREIGN LANGUAGE.** Completion of three years of language coursework in the Upper School (Two years must be in the same language, although one language is highly recommended)

**FINE ARTS** One credit of fine arts is required. This requirement can be met by enrolling in any Upper School vocal music, instrumental music, video, photography, or studio art course.

**PHYSICAL EDUCATION.** The physical education requirement can be met through the Strength and Wellness course, by participating in two seasons of Upper School team athletics, or by an approved level of participation in WCS summer athletic or summer conditioning programs.

## **ACADEMIC REQUIREMENTS**

Students are required to enroll in five academic courses each year. A sixth academic is an option. In addition to required courses, students may choose from the following academic electives: (This is not a complete list.)

AP Biology, AP Chemistry, AP Physics: Mechanics, AP Physics: Electricity & Magnetism, AP Computer, AP Government, Economics, AP Spanish IV, AP Spanish V, AP French IV, AP French V, Latin I, AP Latin, Advanced Bio/Chem Research, Environmental Science, Advanced Composition, AP Music Theory, Economics/Government, History Seminar, AP Computer, Computer Programming, AP Psychology and advanced topics in Mathematics.

Students also have a wide range of non-academic, elective courses available. All courses, required, academic elective and non-academic elective, are described on the following pages. Do not hesitate to talk to any of the faculty as questions occur.

**ADVANCED PLACEMENT:** The A.P. designation indicates the course is an Advanced Placement course. These classes include all the material listed in the respective syllabus provided by the College Board. A national exam for each course is administered each year in May, on campus, which provides students the opportunity to earn college credit for the course. The individual college or university determines the number of hours earned, if any. In some cases, the student's major field of study may influence the decision to grant credit.

**CONCURRENT CREDIT:** The Upper School offers nine courses in which students can earn transferable concurrent credit through Friends University. These courses and the number of credit hours earned are as follows: AP Calculus I (5 hours), AP Calculus II, (5 hours), AP Chemistry (10 hours), Advanced Composition (3 hours), AP United States History (3 hours), AP Government (3 hours) Psychology (3 hours) AP Physics: Mechanics (3 hours) AP Physics: Electricity & Magnetism (3 hours).

## **COURSE DESCRIPTIONS 2018-19**

### **ENGLISH**

#### **FOCUS AND PHILOSOPHY**

WCS students are required to take four years of English, reading broadly and responding critically. Students are prepared for a lifetime of communication experiences in a curriculum which includes AP English Literature & Composition, Parts I and II. This program is designed to extend the students' understanding of their world through the vicarious experience of literature while preparing them

thoroughly for success in college literature courses and the varied writing demands of college. In their senior year, students are strongly encouraged to take the AP English Literature & Composition exam for which they may earn college English credit hours or exemption from introductory level courses.

### **Advanced Composition**

Advanced Composition, a writing workshop, provides opportunities for students to grow as critical and creative thinkers and as writers. By the end of the course, students will demonstrate mastery of written expression in a variety of modes, both prepared and timed. Some of the modes of expression include narration, description, analysis, comparison/contrast, definition, classification, and argumentation/persuasion. The text used is a college-level composition book which presents both student and professional writing models. Several essays require research and documentation using MLA style. While Advanced Composition is not designated as an Advanced Placement course, it can help prepare students for both the AP Literature exam and the AP Language exam, which tests students' expository, analytical, and argumentation writing skills. Students also have the option of earning three hours of concurrent college credit for this course.

### **English I**

English I, a course required of all freshmen, knits together the threads of writing and literature. Emphases on the writing process and on grammar in the context of clear writing dominate the writing instruction in this year, while close reading and annotation are stressed as the students study a variety of novels and dramas. Extensive direction of literary devices occurs here, and the expansion of vocabulary—through words from literary context and continuation of the Wordly Wise series—is an important component of the course.

### **English II**

English II, a course required of all sophomores, broadens the students' literary backgrounds and devotes time particularly to strengthening their communication skills in preparation for writing more sophisticated upper-level papers as well as taking the PSAT and ACT. Oral communication skills are also developed. The course stresses the conventions of correct usage and grammatical construction. Frequent short papers are routinely assigned in conjunction with the instruction of clear and coherent writing. Short stories and poetry are studied in addition to selected novels and dramas. Students practice close reading and annotation of texts and continue to build vocabulary.

### **AP English Literature & Composition I-[American Literature Survey]**

This course is the first half of what is considered a two-year AP course at WCS. Required of all juniors, it provides opportunities for students to grow as critical

readers, creative and analytical thinkers and writers, and effective oral communicators. As writers, students continue to develop confidence and style through careful consideration of diction and structure while producing a variety of quality products, including both out-of-class and timed in-class papers. Through frequent instruction and practice, students extend their ability to respond to all aspects of a given writing topic in a comprehensive essay, especially under time constraints. In literature, students engage in close reading of selected American works including novels, poems, a play, and selected essays. As part of their growth in critical thinking skills, students will read and evaluate a number of non-fiction pieces over the course of the year, paying particular attention to the unique demands of this type of reading. Literary and general vocabulary development continues.

### **AP English Literature & Composition II-[British Literature Survey]**

AP English IV—required of all seniors—concentrates primarily on British literature and is supplemented with French and American writers. Students advance their persuasive and analytical writing skills. Students will also be prepared for the rigors of timed writing—for the demands associated with the AP exam and for the college testing style they will likely be experiencing in the near future. As part of their growth in critical thinking skills, students will read and evaluate a number of non-fiction pieces over the course of the year, paying particular attention to the unique demands of this type of reading. Literary techniques and devices receive special attention when examining fiction and poetry; general vocabulary development continues as well through the use of WordlyWise.

### **Debate /Forensics**

During first semester, students will learn and refine the skills necessary to debate competitively, including those of research, organization, and presentation. These skills will then be used in competitive debate tournaments. Second semester will be spent preparing speeches and/or acting events for students to compete at tournaments.

### **Spartan Voice**

Students will be responsible for the weekly production of *The Spartan Voice*, Collegiate's student-interest publication. The students will work in all aspects of creating the paper from interviewing, writing, and editing to layout and distribution. The intent of the editorial staff of *The Spartan Voice* is to produce a paper that reports on topics that are relevant to the students' lives.

### **Yearbook**

This course offers students the opportunity to build skills in areas as diverse as layout design, journalistic writing, computer skills, and photography. Students learn the basic concepts of effective yearbook production while designing and producing the book in digital form.

### **Public Speaking and Professional Communication:**

Communication is a basic life skill, containing verbal and non-verbal cues. Students will find this course entertaining, challenging, and life changing for their confidence. The course goal is to increase students' critical thinking skills, ability to perform in front of an audience, and preparing them for college level coursework (specifically the public speaking class that will be required of them), life experience, and beyond.

## **MATHEMATICS**

### **COURSE LIST AND GRADUATION REQUIREMENTS**

**Core requirements:** Every student must complete Algebra I, Algebra II, Geometry, and one higher level mathematics course.

#### **Algebra I**

This beginning course in Algebra covers solving linear equations and inequalities, writing and graphing linear functions, solving linear systems of equations, exponential functions, polynomial equations, factoring, and application of these. Functions are introduced to form a foundation for further studies in mathematics.

#### **Algebra II**

Algebra II develops the concepts of Algebra at a higher level. Course content is organized around families of functions, including linear, quadratic, polynomial, exponential, logarithmic, radical, and rational functions. Representing each family of functions in multiple ways – as verbal descriptions, equations, tables, and graphs will be included. A crucial component of this class is learning to use functions to model real-world situations in order to solve real-world problems. Furthermore, the graphing calculator is integrated into the course as an additional tool for developing problem solving strategies.

#### **Geometry**

The bulk of this course is concerned with the formal development of plane geometry. Congruence and similarity are studied in depth. Properties of circles, area of plane figures, an introduction to solid geometry, properties of parallels, and right triangle trigonometry are also included. The nature of formal thought and expression are two common threads throughout the material. Interactive geometry software on both computers and calculators is an increasing part of the course.

#### **Introduction to College Algebra**

Successful completion of Geometry, Algebra I and Algebra II are requirements for this course. College Algebra is designed to recap and strengthen students' algebra skills in order to better prepare them for upper-level mathematics. Topics covered in this course include linear, quadratic, radical, and rational

equations and inequalities as well as logarithms, exponentials, systems of equations, matrices, and basic statistics and probability.

### **PreCalculus**

PreCalculus provides students with an applications oriented, investigative curriculum in which formal analytic methods are developed parallel to numerical and graphical techniques. Technology is used as much to enhance each student's understanding, as it is to solve problems. This course is required for calculus but presents topics with utility in diverse areas. The bulk of the course is a study of functions; algebraic, exponential, logarithmic and trigonometric.

### **AP Statistics**

This course requires only the completion of Algebra II as a prerequisite. Statistics is the science and art of analyzing data. The major themes of the course are data analysis, design of experiments, probability, and formal inference. Statistics is useful in almost every area of life and hence the course uses applications from many fields. Students are able to develop a better understanding of the processes and their meaning through the use of technology coupled with analytic methods.

**A.P. Calculus I (AB):** This course requires PreCalculus as a prerequisite. This course covers the material associated with the first course of college calculus. Included in the course is a study of limits, differential calculus, integral calculus, and applications of both derivatives and integrals. Concurrent Credit - 5 hrs.

**AP Calculus II (BC):** This course requires AP Calculus I (AB) as a prerequisite. This course covers the material normally covered in the second course of college calculus. Included in the course are an in-depth review of limits, differential calculus, integral calculus, applications of both the derivative and integral, polar, parametric, and vector function, and infinite series. Concurrent Credit-5 hours.

### **Topics in Advanced Mathematics**

This course is intended for students who have successfully completed Calculus BC. The curriculum for this course will vary from year to year depending on the interests and past mathematics experience of the students. Among the possible courses include **Multivariable Calculus, Differential Equations, and Linear Algebra.**

## **HISTORY & HUMANITIES**

### **FOCUS AND PHILOSOPHY**

The study of history is an inclusive experience at Wichita Collegiate School, encompassing a wide range of academic areas. Philosophically, the History Department at Wichita Collegiate School believes that informed decisions on

global and contemporary issues and global concerns can only be made with a deep understanding of the political, social, economic, intellectual, geographic, diplomatic and military history of our modern society. For this reason, WCS requires each student to complete a rigorous, eclectic curriculum in history and its related academic areas.

In the freshman and sophomore years, each student normally completes a three year history cycle that begins in the eighth grade and which provides each student with a survey study of global anthropological and geographical knowledge, and an in-depth studies of the development of Western Civilization and both of ancient and modern world history. In the sophomore year, each student will complete an Advanced Placement level course in United States history. In the junior year, students are required to take Globalization and History. In the senior year, students will choose one of the following courses: Economics, AP Government, or History Seminar. The senior requirement may be satisfied with the Government/Economics course, which is only taught in the summer session. Note: four credits are required, plus Humanities.

### **Civics (Freshmen)**

Civics will introduce the students to the foundations of American democracy and the origins of American government. Emphasis is placed on the study of constitution government in the United States, including understandings of how the Constitution came into existence, why it took the form it did, and how it has functioned for more than 225 years. An overarching course goal will be to teach the students about the rights and responsibilities of citizens in a democratic society. In addition, the roles of political parties, campaigns & elections, public opinion, and the media will also be considered.

### **AP United States History (Sophomores)**

This course offers sophomores a rigorous, college-preparatory survey of United States history from the colonial period to the present. Class work will focus on exploring the social, political, economic, and intellectual fabric of our country's history and its place in the modern world. Additionally, the course will contain a significant geography component and an emphasis on relating historical events to contemporary affairs. This course provides strong preparation for the Advanced Placement examination.

### **Globalization & History (Juniors)**

Globalization is one of the most common terms in public discourse today, but it means different things to different people. This is also true in an historical sense. This course is based upon the premise that globalization is a very old concept, that has been constantly redefined through the last 2500 years. It begins with ancient Greek philosophers and ends with current political and economic strategies. Extensive research, both traditional and web-based, and oral and written reports are major components of the course. This course is an elective for juniors only.

### **History Seminar**

In heaven they speak Italian, in hell they speak Dutch, and in Seminar we speak politely, but vigorously. This course is based upon research in a wide variety of areas, including, but not limited to, the arts and architecture, music and literature, philosophy and religion, politics and war, the sciences and society, the Greeks and the Romans, and, of course, the Italians and the Dutch. We will even discuss the best way to choose the gender of an unborn child, and how to properly discipline the child after it is born. The research will help you to prepare for written and oral argument, because the Renaissance and the Reformation were all about writing and arguing. And sometimes murdering, but we won't go that far. This course is somewhat competitive; it is founded upon questioning. This course fulfills the WCS elective social studies requirement.

### **Government/Economics**

This summer course provides students with an introduction to the study of American Government and Macroeconomics. The government section of the course will explore the nature of the U.S. political system, including its historical and philosophical foundations and its political institutions. The economics section of the course will introduce students to the fundamental concepts on microeconomics, including the study of markets and the philosophical foundations of our economic system. This course fulfills the WCS elective social studies requirement as well as the Kansas Board of Regents government requirement. This course is only offered in the summer.

### **Economics and Society:**

This course includes a significant study of Macroeconomics and an exploration of the relevance of economics in the larger life of American politics and society. Topics included in this course include markets, the business cycle, fiscal policy, monetary policy, and banking. Students will also be introduced to the major schools of economic thought.

### **AP United States Government & Politics**

This college preparatory course is an introduction to the national government and political system of the United States. Students will study government institutions, political processes, and examine policy choices. The institutions and policies of the U.S. government will be considered in light of historical change, constitutional procedures, and comparative perspectives. AP classes give the students an opportunity to learn a great deal of information in a challenging and engaging manner. There are three goals for this course: (1) encourage students to develop a genuine interest in government and politics, (2) prepare students to succeed in college, and (3) prepare students to do well on the AP exam if they decide to take it. This course fulfills the Kansas Board of Regents government requirement.

### **AP Psychology**

The AP Psychology course is designed to introduce students to the systematic and scientific study of behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students will also learn about the ethics and methods psychologists use in their science and practice. The AP Psychology course is designed to mirror an entry-level college course, and to prepare students for success on the AP exam. The students will have frequent assessments over key course knowledge. AP Psychology requires a substantial time commitment on the part of the student.

### **Humanities**

The central focus of the required senior Humanities course is a discussion of the question, "What does it mean to live a good life?" The curriculum of the course is an eclectic reading list that includes authors ranging from Homer to F. Scott Fitzgerald, from Cicero to Samuel Beckett. The meaning of the term "good life" is explored in all of its meanings, from the materialistic to the philosophical and religious. The course culminates with a paper, typically 20-25 pages in length, in which each student explores his or her own views regarding "the good life." After writing the paper, the student must defend the paper to a panel of three faculty members.

## **SCIENCE**

### **FOCUS AND PHILOSOPHY**

GOALS: Preparing students for this rapidly changing technological society is a must. Whether students pursue careers in science or not it is important for all the students to have a scientific literacy that will help them to stay healthy and wise. Steps the science department has taken to ensure this scientific literacy is to require all Collegiate students to graduate with at least one full course each in biology, chemistry and physics. In addition, a full compliment of Advanced Placement Courses is offered for those students wanting a more in depth study of science. All courses are designed to help students make careful observations, good inferences, and make logical conclusions based on the data they have collected and analyzed.

### **Biology**

This course is the science requirement for freshmen. The students will learn concepts dealing with cellular processes, viruses, bacteria, genetics, evolution,

human body systems and diseases. Students will engage in a variety of laboratory experiments.

### **Chemistry**

This course is the science requirement for sophomores. The students will learn concepts typically covered in the first semester of a college chemistry class. The course offers atomic structure, periodic trends, formula writing, formula determination from data, nomenclature, redox, acids, bases and salts, organic Lewis Structures, gas laws, and stoichiometry. Twenty-five percent of class time is devoted to laboratory work. Approximately ten percent of the course will require students to use mental math skills instead of relying on using the calculator to solve chemistry problems. This mental math preparation will help students perform better on nationally recognized, standardized chemistry exams that do not permit use of calculators.

### **AP Biology**

This course covers in depth the outline suggested by the AP Biology College Board Testing Service. The material covered is similar to a first-year college biology course. After completing the course, the students will take the AP Biology exam offered in May. Biology and chemistry is a prerequisite for taking this course.

### **AP Chemistry**

Prerequisite: Chemistry I & Biology I

This course covers the required AP Chemistry curriculum suggested by the College Board Testing Service. The topics covered is similar to a first year college chemistry course and will prepare students to take the AP exam in May. This is a two-hour class that may be taken for dual credit (10 hours) with Friends University.

### **Advanced Chemical Research**

Prerequisite: AP Chemistry

This course is designed to expose students to the research process, from a laboratory perspective as well as through reading scholarly journal articles. This class utilizes a gas chromatograph (6850 series); students will learn how a GC functions, as well as use the instrument to analyze organic samples synthesized in lab. Over the course of the year, students will present their findings and conclusions to several groups, including their peers, adults in the school community, and adults in a graduate education setting. Discussion of ideas and application of knowledge lead to the development of the final product, a poster presentation at the KU Research Forum. Because this class is limited in size, overall GPA, chemistry class scores, and competency in the lab setting will help determine who is eligible to participate.

## **Physics**

This course is one option to complete the physics graduation requirement. The students will learn kinematics, dynamics, laws of motion, gravity, energy conservation, wave mechanics, electromagnetic radiation, electricity, and magnetism. Students will also have a variety of laboratory experiences.

### **AP Physics: Mechanics**

The course covers Newtonian Mechanics in depth and provides instruction in each of the following content areas outlined in the Course Description: (1) Kinematics (2) Newton's Laws of Motion (3) Work, energy, and power (4) Systems of particles and linear momentum (5) Circular motion and rotation (6) Oscillations and gravitation. The course utilizes guided inquiry and student centered learning to foster the development of critical thinking skills. Introductory differential and integral calculus is used throughout the course. The course includes a physical (not virtual) laboratory component comparable to a semester long college-level physics laboratory. Students spend a minimum of 20% of instructional time engaged in hands-on laboratory work. **NOTE:** Students must have completed PreCalculus and be concurrently enrolled in AP Calculus I.

### **AP Physics: Electricity & Magnetism**

The course covers electricity and magnetism in depth and provides instruction in each of the following five content areas outlined in the Course Description: (1) Electrostatics (2) Conductors, capacitors, and dielectrics (3) Electric circuits (4) Magnetic fields (5) Electromagnetism. Introductory differential and integral calculus is used throughout the course in areas such as: (a)  $dq$  method of electric field and electric potential calculations due to charge distributions (b) Conceptualizing the surface integral in Gauss' Law and flux calculations (c) conceptualizing the line integrals in electric potential calculations and Biot-Savart Law and Ampere's Law (d) RC, RL, LC, RCL (undriven and driven) (e) Faraday's Law and Maxwell's Equations. The course utilizes guided inquiry and student centered learning to foster the development of critical thinking skills. Introductory differential and integral calculus is used throughout the course. The course includes a physical (not virtual) laboratory component comparable to a semester long college-level physics laboratory. Students spend a minimum of 20% of instructional time engaged in hands-on laboratory work. **NOTE:** Students must have completed Precalculus and be concurrently enrolled in AP Calculus I. Students must also have completed either Physics or AP Physics: Mechanics.

### **Environmental Science**

This course is an interdisciplinary study that combines ideas and information from the natural and physical sciences as well as the social sciences such as economics, politics and ethics. Students will experience hands-on labs designed to make connections between humans and their interaction with nature.

### **Innovation Lab/Robotics**

The Innovation Lab/Robotics Class will provide students with the opportunity to acquire the information and skills necessary to design, prototype, re-design, and ultimately produce a finished product. Class projects will be directed toward meaningful objectives and, using trial and error and discovery techniques, students will develop and test possible paths toward completing these objectives. Students will learn to use tools as simple as a drill press and as sophisticated as CAD systems and 3D Printers. The year will begin with integrating concepts and skills to build a robot that will compete in the Kansas Best Competition (students enrolled in the class do not necessarily have to be part of the team). As the year progresses students will strengthen their design and building skills and develop their own projects.

### **CATIA V5**

CATIA is a multi-platform software suite for computer-aided design (CAD), and computer-aided manufacturing (CAM). The year long class will cover four different courses: Sketcher and Part Design, Assembly Design, Wireframe and Surfaces, and Assembly Drafting. You will learn how to draw 3D parts, assemble them into multiple part products, learn how to design complex surfaces, and produce 2D design plans. You will earn 2 hrs of college credit upon completing each course.

### **Introduction to Engineering Design:**

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

## **COMPUTER SCIENCE**

### **AP Computer Programming**

This is a year-long course that offers academic credit. The goals are to prepare students to take the national Advanced Placement exam in May. The computer language for this exam will be Java. Pre-requisites: The completion of Algebra II. Special permission required for freshmen.

### **Computer Programming**

This is a year-long course that offers academic credit. This course is about learning to solve problems by applying computational methods with an emphasis on preparing you for college. No prior programming experience is necessary. An introduction to several programming applications will be used to help students (who may or may not intend to major in computer science in college) to feel

justifiably confident of their ability to write small programs. This course provides an excellent foundation for the Advanced Placement Computer Programming course. Pre-requisites: The completion of Algebra II. Special permission required for freshmen.

## **FOREIGN LANGUAGE**

### **FOCUS AND PHILOSOPHY**

Three years of foreign language credits are required for graduation from Wichita Collegiate School. However, successful completion of a fourth year is considered the best preparation for college and is, therefore, strongly recommended. A continuation of growth in proficiency levels of basic skills (listening, speaking, reading, and writing) is advantageous for either a) quizzing out of a college foreign language requirement or b) continuing foreign language study at a more appropriate level in college. Students are welcome to pursue multiple languages at Collegiate in any combination. A summer school course is not considered equivalent to a year of modern foreign language at our school. Therefore, full credit is not given by WCS for such courses.

The Upper School foreign language classrooms are dynamic environments where learning is directed by a highly skilled staff of native and near-native speakers who have had experience abroad as well as postgraduate study. In addition, the presence of computers in our classrooms allows for greater diversity of activities to aid our students in improving in skills, such as listening and speaking.

### **French I or Spanish I**

Each of these courses is an exciting introductory course that aims to develop a strong foundation of listening, speaking, reading and writing skills while also incorporating a study of culture. Students will interact daily with classmates and with their teacher in the target language. The student textbooks are supplemented with various materials such as newspapers, magazines, music, video and audio sources with a variety of accents.

### **Latin II**

As the students continue the Ecce Romani series they cover all the intermediate grammar, strengthen their reading comprehension, and develop their writing of accurate English translations. The text is supplemented with studies in Roman history, Roman culture and English vocabulary.

### **French II or Spanish II**

The second year language courses continue to develop the basic skills along with an appreciation of their respective foreign cultures. Intermediate grammar and vocabulary expansion are important objectives at this level using varied teaching methodology.

### **Latin III**

After completing the advanced grammar in the Ecce Romani series, the students begin the study of Latin literature. They read selections from the writings of Cicero, Caesar, Catullus and Vergil. In addition to improving their verbal skills, students develop a greater understanding of Roman history and Roman culture. This course prepares the students for the Advanced Placement Latin course.

### **French III or Spanish III**

Literature, journals, video creations, presentations, and advanced grammar are introduced at this level as proficiency in the four basic skills continues. After successful completion of this course, students should be well-prepared to enroll in an Advanced Placement course.

### **AP Latin**

This course follows the Advanced Placement Latin syllabus. The students read, translate, interpret and analyze prose selections from Caesar's Gallic Wars and poetry selections from Vergil's Aeneid. Readings in English from both authors are also included in the syllabus in order to give the students a better understanding of the context of the Latin readings. This course provides strong preparation for the Advanced Placement exam.

### **AP French Language or AP Spanish Language**

Students complete their study of advanced grammar as proficiency in the four skill areas (listening, speaking, reading, and writing) continues. The AP Language curriculum includes listening to and reading a variety of literary pieces which may include novels, plays, poetry and short stories. Spanish III or French III is a prerequisite. Advanced Placement French and Spanish students continue to write longer and more polished compositions and to express themselves orally in a variety of simulations in order to prepare for the AP exam. Students may opt to take the exam at the end of the course. The students will continue to improve and polish their skills, leading to a deeper knowledge of the target language. This will allow the student to be in a position to succeed in placements exams at the college of their choice without having to prepare and take the Advanced Placement exam.

## **FINE ARTS**

### **FOCUS AND PHILOSOPHY**

The Fine Arts Department of Wichita Collegiate School prides itself in pursuing excellence and creative confidence in vocal and instrumental music, visual art, and drama. Participation in the fine arts helps students become independent, wise, and humane individuals, and is a recommended addition to the Collegiate student's yearly course selections.

## **Music and Performance**

### **Dynamics**

Dynamics is WCS's introductory Upper School choir and is open to incoming 9th and 10th grade students. This ensemble offers the foundations of choral singing. Students will be taught to read music and vocal scores, identify key and meter signatures and sing a variety of musical styles. Dynamics will participate in Fall, Thanksgiving and the Candlelight concerts with particular focus toward the Spring when we compete in league, regional and state festivals. Students may participate in two choirs with permission from Mr. Webber and the WCS administration.

### **Bella Voce**

Bella Voce is WCS's all ladies show choir that entertains with vocal performances and choreography. Bella Voce is an auditioned group for incoming 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> grade students. The ensemble performs choreographed selections from today's pop charts as well as music theatre, vocal jazz and contemporary a cappella music. Bella Voce will perform at the Butler Community College Show Choir Showcase in November! Annually, the Show Choir will participate in Fall, Thanksgiving and Candlelight concerts. Students may participate in two choirs with permission from Mr. Webber and the WCS administration.

### **Madrigals**

Madrigals is WCS's top performing vocal ensemble and is an auditioned group for incoming 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> grade student. The Madrigals perform at more than a dozen school, community and civic functions throughout the year. The Madrigals travel to Europe biannually to sing music of the Masters in some of the world's greatest venues that those Masters called home! Annually, the Madrigals participate in Fall, Thanksgiving and Candlelight concerts with particular focus toward the Spring when we compete in league, regional and state festivals. Students may participate in two choirs with permission from Mr. Webber and the WCS administration.

### **Instrumental Music**

The Instrumental Music Class is open to students who have demonstrated an adequately high level of performance on their instrument through at least 2 years of previous musical experience. A variety of band literature will be studied in preparation for concerts, band festivals, solo and ensemble festivals, football games, basketball games, school and community events, and travel to out of state performances and competitions. Members of the Instrumental Music class participate in concert band, marching band, and pep band and are also eligible to participate in the Collegiate Drumline and Jazz ensemble. The band director may schedule occasional outside of school rehearsals/music tutorials. Attendance at all performances is required.

## **Music Theory**

This course is designed to cater for the beginner and the more advanced musician allowing each person to progress at their own pace and level. For beginners, elements of basic theory are covered along with an appreciation of different music styles which are listened to, performed and discussed. For more advanced students, the course will focus on aural perception and writing music in various genres. Students with sufficient background and motivation may be able to successfully complete the AP Music Theory examination after completing this course. The course itself will combine a sound grounding in music theory with ear training and sight singing. A general background history of musicians and composers will enhance the student's musicianship. The principal interactive textbook to be used will be *Alfred's Essentials of Music Theory* and supplementary material will be provided as required.

## **THEATER ARTS**

### **Drama**

The US Drama class will be taught as a workshop. The workshop format/philosophy has several advantages for theatre-related activities: *(1) It is student-centered rather than teacher-centered: the students' current skills, abilities, interests and needs are the focus of activities in the class rather than a pre-determined sequence of learning independent of the students (2) it is informal and participatory in style, thus allowing for a relaxed atmosphere and, more important, a greater degree of student input (3) it emphasizes student action: a drama workshop is organized to promote acquisition of skills. Intellectual aspects are means to that end rather than ends in themselves. Thus, students will be on their feet doing things rather than following a textbook or pursuing a traditional classroom scope and sequence*

Major units in the Drama class include the following: Acting and Drama Techniques, Theatre History, Performance, and Technical Theatre.

## **UPPER SCHOOL VISUAL ART**

### **Photography I (full year)**

This class is designed for the beginner. Students will learn about the basic properties of light and composition. They will also learn the basic functions of the camera, such as shutter speed, and f-stop settings. Each student will supply his or her own digital camera and two 16 GB SD cards. Any name brand name DSLR camera will do. There are some Point & Shoot cameras that have the required features. Here are the features the camera should have:

- Shoot in RAW format
- Manual aperture priority
- Manual shutter priority
- Manual exposure compensation

### **Photography II, III, or IV (full year)**

This course is designed for the advanced student of the discipline. Building a portfolio, entering competitions, and displaying and discussing their works will be an important part of this class. This class will be driven by student work and activities in a seminar style. Students in Photography III or IV will have the option, at the teacher's recommendation, to submit a photography portfolio for an AP Studio Art qualification. Each student will supply his or her own digital camera and two 16 GB SD cards. Any name brand name DSLR camera will do. There are some Point & Shoot cameras that have the required features. Here are the features the camera should have:

- Shoot in RAW format
- Manual aperture priority
- Manual shutter priority
- Manual exposure compensation

### **Film I (full year)**

In video production students will learn about camcorders, shot making, sound, editing, scripts and directing. Students will produce a number of short films on an individual basis and in groups. This course is a prerequisite to Video II and Video Magazine.

### **Film II/Video Magazine (full year with prerequisite)**

This Class allows advance students to develop their skills and creativity. In this class students will produce video magazines, we will critique commercial films and learn to write screenplays using professional software. We will produce films for use in portfolios and college submissions. Films and screenplays will be submitted to competitions. The magazines will contain segments on school and original student films. In this class students will be expected to do most of their work outside of class time.

### **Film III (full year with prerequisite)**

We will critique commercial films and learn to write screenplays using professional software. We will produce films for use in portfolios and college submissions. Films and screenplays will be submitted to competitions. In this class students will be expected to do most of their work outside of class time.

### **Sculpture (full year / Can be repeated, class projects change every year)**

Students will learn 3D design principles such as form, structure, volume, visual balance, surface treatment, texture, composition, movement and scale. They will gain exposure to a variety of materials and the techniques. Students will develop a visual vocabulary through an understanding of the creative process, personal

aesthetic and conceptual intent. Class projects change from year to year therefore students may take the class more than one year.

### **Drawing and Painting I**

Drawing and Painting I is an introductory two-dimensional course for beginning art students. In this course, students will develop their observational, artistic and technical skills. A wide range of drawing and painting media may be used in connection with still life, nature, portraiture, and landscape. Students will experiment with graphite, charcoal, chalk pastels, oil pastels, ink, colored pencils, scratchboard, watercolor, gouache, acrylic and mixed media. A variety of artists will be studied as students discover how they are relevant in art history and to the individual student's work.

### **Drawing and Painting II and III**

Drawing and Painting II and III gives an opportunity for students to utilize the knowledge and experience acquired in their previous introductory art course in order to create works that demonstrate proficiency in drawing and painting, while continuing to develop and refine techniques, concepts, observational and technical skills, critical thinking, and personal ideas. Students will be exposed to a variety of classical and contemporary artists and art movements. Group discussions, projects and critiques will take place throughout the course.

**Prerequisite:** Drawing and Painting I

### **Pre-AP Portfolio**

A portfolio preparation course with an open studio platform designed to further develop students individual interests, personal voice and technical skills in the areas of drawing, painting, mixed media, printmaking, photography, computer/digital imaging, graphic design, illustration, typography, and collage. This is an advanced 2-D course, designed for self-motivated, self-disciplined art students who want the rigor of a college level art course. PowerPoint lectures, group and individual critiques and discussions will be given throughout the course. Students who complete the AP portfolio requirements may participate in AP college portfolio evaluations that can result in college credit.

**Prerequisite:** Minimum of two years of any 2-D art course **OR** approval from the instructor.

### **Digital Imaging I**

Digital Imaging I is a beginning course which introduces students to two powerful programs recognized by professional designers and artists around the world: Adobe Photoshop and Illustrator. These applications are considered to be an industry standard for digital photography, graphic design, printing, web design, video and film, special effects, 3D computer graphics, and photo retouching. Units of study include software applications; raster editing manipulation (Photoshop), vector designs (Illustrator), digital photography, basic graphic design and digital printing. PowerPoint presentations, group or individual critiques and discussions will be given throughout the course.

### **Digital Imaging II and III**

Digital Imaging II gives an opportunity for intermediate and advanced graphic students to utilize all the knowledge and experience acquired in their previous introductory digital course in order to create works that demonstrate expertise in Adobe Photoshop and Adobe Illustrator; the industry standard applications. Other applications will be studied in this course such as Adobe InDesign (desktop publishing), SketchUp, simple animation and video programs and 3-D printing. The main purpose of this class is to help the students develop a professional graphic design portfolio by giving guidance in improving their current pieces, developing new portfolio artworks and work on community and school projects. PowerPoint presentations, group or individual critiques and discussions will be given throughout the course. Visual computer literacy will be developed through problem solving and hands-on assignments in the classroom.

**Prerequisite:** Digital Imaging I

### **Animation**

This introductory course to animation will allow students to explore the history and evolution of early animation to the present time. Students will learn the basics of 2-D animation, stop motion, Claymation, flipbooks, storyboarding and creating character and sound design. Students will create multimedia with Adobe Animate CC (previously known as Flash) and will be introduced to the 3D animation program, 3DS Max. Demonstrations, presentations, hands-on experimentation, critique and projects will further student's techniques. Students will also use digital cameras, Wacom Tablets, and other computer editing programs to enhance their animations.

## **PHYSICAL EDUCATION**

**Strength & Wellness** This physical education course focuses on the use of weights to develop physical strength. Aerobic conditioning is also part of the exercise program.

## **STUDENT AIDE ELECTIVES**

### **Upper School Teacher Aide**

Students may choose to work as an aide for a teacher in the Upper School. Students are responsible for contacting an instructor for approval. Note: Teacher aide does not count as a course in determining eligibility for extracurricular activities. This course is graded on a pass/fail basis.

### **Early Childhood or Lower School Aide**

Students may choose to spend one period each day working as a teacher aide in the Lower School or Early Childhood Divisions. Students enrolling in this option will be paired with a teacher who requests an aide. Note: EC/LS aide does not count as a course in determining eligibility for extracurricular activities. This course is graded on a pass/fail basis.

### **Office Aide**

A limited number of students each year may elect to spend one period each day working as an aide in the Upper School office. Duties include answering phones, helping with mailings, delivering messages, and updating the announcement board. Note: Office aide does not count as a course in determining eligibility for extracurricular activities. This course is graded on a pass/fail basis.

## **STUDY HALL**

### **Study Hall**

Students may elect to use one period per day as a study hall. Juniors and Seniors with an overall academic grade average of 80% and with no grade below 76% in any academic course will be given an unsupervised study hall. Eligibility for an unsupervised study hall will be determined only at mid-point and the end of each semester. Study Hall is not a graded course and will not appear on the official WCS transcript.