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Academic Advising

As students progress through the LCS Middle and Upper School programs, they will make some important decisions. Students choose the rigor of their core courses, the electives and activities that enrich their academic and social lives, the degree plan to follow, and the tests to take for college entrance. The Academic Advising Department is trained to help students set their academic and career goals, build their academic record, and navigate through the college application process.

Student Schedules

Students are required to submit individual course requests prior to each academic year. Academic advisors are available to help students review course offerings and make appropriate selections. Parents and students are encouraged to discuss scheduling options prior to submitting course requests, and are asked to carefully consider all course elections. Administration bases its decisions for teachers and number of classes offered from the initial course requests made in the spring of the previous school year. LCS makes every effort possible to meet the scheduling requests of each student. Occasional administrative and staffing changes may result in the replacement of some course selections and can also result in a change in teacher assignment or class time.

Pre-Advanced Placement (Pre-AP) and Advanced Placement (AP) Programs

A Pre-AP course is one in which the curriculum is enriched and accelerated in keeping with College Board standards. An AP course is a college-level course that follows the College Board Advanced Placement curriculum. The student’s knowledge of the course curriculum is tested through the AP Exam. Any student enrolled in an AP class is required to register for and take the course’s AP Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U. Colleges and universities have the option of accepting AP results for college credit or placement in advanced standing. Completion of Pre-AP and AP courses with passing grades results in additional points for calculating GPA (refer to “GPA Calculation” on Page 5). Beginning with the 2017–2018 school year, if a student fails a semester, no additional points will be calculated into the GPA. Liberty recommends that parents and students refer to the document, “AP Classes: To Take or Not to Take” to determine if a student should enroll in a Pre-AP or AP course.

It is a requirement at LCS to take the test if a student is enrolled in an AP course. If a student does not take the test, the AP designation will be removed from the transcript and no additional points will be added into the GPA.

Note: For more detailed information on specific AP courses, visit www.collegeboard.org.

Eligibility for 6th–12th Grades

The following criteria apply for admission to all AP and Pre-AP courses:

- A minimum of 85 percent in a Pre-AP course or 90 percent in a regular course is required and must have been maintained in the subject for the entire previous year. (German Pre-AP, Mandarin Pre-AP, and Computer Sciences courses are exempt from prior grade requirements.)
- The student must be committed to considerably more work per course per night than the standard homework requirement.
- Students must not have incurred excessive absences, tardy notices, or recurring zeroes in the most recent school year.
- Academic Advising recommends that 6th–9th grade students enroll in no more than two Pre-AP courses per year.
- Students must agree to remain in scheduled Pre-AP and AP courses through the first semester.
- Students should obtain a minimum average of 75 percent at the end of the first semester to continue enrollment in a Pre-AP or AP course.

Note: Transfer students must receive approval from the Academic Committee to enroll in Pre-AP and AP courses.
Departmental Requirements

Some departments have additional qualification requirements for students enrolling in Pre-AP and AP courses. Many Pre-AP and AP students must complete summer reading assignments and/or projects prior to the beginning of school. Please refer to the “Resources” page of each school level under “Academics” on the Liberty website for more information.

Adjusted Teaching Style (ATS) Requirements

LCS provides course selection in the core courses for students with diagnosed and documented learning differences. Offered in grades 6–12, these courses are designated as ATS courses, where the curriculum is modified to more closely address the students’ learning needs. Using the same texts and curriculum as those used in regular courses, ATS offers additional support beyond the traditional classroom and provides students with a venue to maximize their potential. ATS classes are available only for students who have current diagnostic testing (updated every three years) and have a diagnosed learning difference. Approval for course enrollment is granted through the ATS Academic Committee. There is an ATS course fee per school year for each ATS course taken. This fee cannot be prorated or refunded for students withdrawing from LCS during the school year or for new LCS students enrolling after the start of the school year. These classes are subject to availability, and waiting lists are maintained.

Note: Courses that are not designated as ATS are structured to meet the needs of students without diagnosed learning differences. Therefore, regular courses do not offer accommodations.

Summer School Information

Liberty Christian School offers summer school courses through Liberty Christian Online for students who need to recover credits. Liberty partners with Sevenstar Academy, an online curriculum provider, that offers biblically integrated courses meeting Liberty’s college-preparatory graduation requirements. Although coursework is completed independently, instruction is facilitated by a remote teacher, and student progress is monitored by Liberty staff members. Completion of online coursework is required for students who have not earned a passing grade for any semester of a required Liberty course. Students must earn a semester grade of 70 percent or above in the online course to receive semester credit, although Sevenstar Academy considers 60–69 percent a passing grade of “D.” Semester grades earned through online summer school will appear on the student’s transcript and be included in the GPA calculation. The online course grade will not replace the failing grade on the transcript or in the GPA. Please visit the Academic Advising Office for more details about summer school, the online curriculum, and the associated fees.

Note: Summer school is limited to the courses offered through Liberty Christian Online, and only those courses will appear on the Liberty transcript for credit. Seniors who fail a required course will receive their diplomas upon completion of the equivalent summer school course.
Grade Point Average (GPA) and Class Ranking

GPA Calculation

The student’s GPA calculates on both 4-point and 100-point scales and includes the following required courses taken at Liberty Christian School: Bible; English; Social Studies; Science; Math; Foreign Language; Speech; Technology, Entrepreneurship, and Communication (TEC); Business and Professional Communications (BPC); and all Pre-AP/AP courses. Spanish I and Business and Professional Communications courses taken in the 8th grade prior to the 2017–2018 school year will continue to be counted in GPA calculations.

On a student’s transcript, semester grades are unweighted, but the GPA calculation is weighted as follows: on the 100-point grading scale, 5 points are awarded for Pre-AP courses and 10 points for AP courses; on the 4-point grading scale, .5 point is awarded for Pre-AP courses and 1 point for AP courses. These points are added in and averaged with the total grade points. Beginning with the 2017–2018 school year, students must pass the semester to receive weighted points for GPA calculations. For students in grades 8–12, GPA is calculated at the end of every semester.

Note: Beginning with the 2014–2015 school year, only grades earned at Liberty Christian School on eligible courses will be included in the GPA calculations and transcribed onto transcripts. Transfer grades are not included in GPA or rank calculations. For students who transfer during the first semester of 9th grade, 8th grade courses are transcribed onto transcripts but are not included in GPA calculations.

The LCS 4.0 Grading Scale

<table>
<thead>
<tr>
<th>Grade</th>
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<tbody>
<tr>
<td>90–100</td>
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</tr>
<tr>
<td>87–89</td>
<td>3.75</td>
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<tr>
<td>84–86</td>
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<tr>
<td>82–83</td>
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<td>80–81</td>
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<td>77–79</td>
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<tr>
<td>74–76</td>
<td>2.5</td>
</tr>
<tr>
<td>72–73</td>
<td>2.25</td>
</tr>
<tr>
<td>70–71</td>
<td>2.0</td>
</tr>
<tr>
<td>0–69</td>
<td>0</td>
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</tbody>
</table>

Class Ranking Calculation

LCS is a non-ranking school. However, Liberty ranks the top 10 percent of students for the purpose of automatic admissions to Texas public colleges and universities. Class rank calculates using the 100-point weighted GPA. Class rank is calculated at the end of every semester only for students in grades 10–12.

Important! Transfer students will be eligible for ranking after four consecutive semesters at LCS.
# Graduation Requirements

The chart below provides the number of credits needed for each subject area depending on the type of diploma a student plans to pursue.

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>College Prep (27 Credits) See Page 7</th>
<th>College Prep with Honors (28 Credits) See Page 7</th>
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<tbody>
<tr>
<td>English</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics*</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Science*</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Bible</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Foreign Language*</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education*</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Electives*</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Technology*</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>Speech*</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Six Pre-AP/AP courses*</td>
<td>N/A</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Specific requirements exist for satisfying credits in the areas indicated above. They include the following:

**Mathematics:** Algebra I, Algebra II, and Geometry must be completed to meet three of the four math requirements. Students are required to take a different math class every year in grades 9–12.

**Science:** Science credits must include Biology, Chemistry, and Physics. The fourth science option may be chosen from the courses provided.

**Foreign Language:** Beginning with the 2017–2018 school year, Foreign Language requirements must be met with credits from the same language in grades 9–12.

**Physical Education:** Physical Education requirements may be met through Athletics, Cheer, Dance Team, Band, Office Aide (if taken prior to the 2017–2018 school year), or Encore (beginning with the 2017–2018 school year). Beginning with the 2017–2018 school year, the Office Aide course is no longer accepted as a Physical Education credit.

**Electives:** After the required course credits are satisfied, a student may choose from other subject areas to satisfy elective credit(s). Refer to the following pages to find the courses that may be used for elective credit: Career and Technology (Page 14), Fine Arts (Page 20), and Foreign Language (Page 27). Electives can include one credit of Athletics.

**Technology:** The Technology requirement is met through the Technology, Entrepreneurship, and Communication (TEC) course, or the former Business and Professional Communications or Business Computer Information Systems courses offered prior to the 2017–2018 school year. Beginning with the 2018–2019 school year, the Technology requirement can also be met through the AP Computer Science Principles course.

**Speech:** Credit is met through the current Speech course or the former Business and Professional Communications or Business Computer Information Systems courses offered prior to the 2017–2018 school year. Beginning with the 2017–2018 school year, Encore may be approved for the Speech credit through the Academic Advising Department.

**Pre-AP/AP Courses:** To graduate College Prep with Honors, students must pass six year-long Pre-AP/AP courses for Upper School credit during grades 8–12. Beginning with the entering class of 2021, at least two of the six courses must equal two year-long AP courses.
Diplomas and official transcripts are available when books and athletic equipment are all returned to LCS and any outstanding fees/fines are paid. Textbook replacement costs must first be resolved, as well as any detentions and/or in-school suspensions be served.

**College Planning**

This section provides basic, general guidelines for students planning to attend a post-secondary institution.

**Important!** Each college and university has very specific requirements for admission. Students should check with their Academic Advisor, college catalog, or the institution’s admissions office for specific admissions requirements and recommendations.

**Degree Plans**

**College Preparatory Degree Plan**

The College Prep Degree Plan accommodates students who desire to complete coursework that will facilitate entrance into a four-year college or university.

*Note:* Algebra I, Geometry, and Algebra II must be completed to meet three of the four math requirements. Biology, Chemistry, and Physics must be completed to meet three of the four science requirements. For a complete list of requirements, please refer to the chart on Page 6.

**College Preparatory with Honors Degree Plan**

The College Preparatory with Honors Degree Plan accommodates students demonstrating levels of aptitude and performance equivalent to college-level work and who are applying to highly selective colleges and universities. To graduate College Prep with Honors, students must pass six year-long Pre-AP/AP courses for Upper School credit during grades 8–12. Beginning with the entering class of 2021, at least two of the six courses must equal two year-long AP courses. Also, three Foreign Language credits from the same language are required. Beginning with the Class of 2022, Foreign Language requirements must be met with credits from the same language in grades 9–12.

*Note:* Algebra I, Geometry, and Algebra II must be completed to meet three of the four math requirements. Biology, Chemistry, and Physics must be completed to meet three of the four science requirements. For a complete list of requirements, please refer to the chart on Page 6.

**Important!** A student must not have failed more than a total of two semesters in courses counting toward graduation requirements to qualify for a College Prep with Honors diploma.
Basic College Requirements

College-bound students should present a high school record that falls within these recommended guidelines:

- Four units in English that include composition and literature
- Four units in Social Studies
- Four units in Mathematics (many colleges now expect applicants to have completed Mathematics study through Pre-Calculus)
- Four units in Natural Science with labs
- Two to three units in the same Foreign Language
- One half (.5) unit of Technology
- One half (.5) unit of Speech
- One to two units of Fine Arts

College Majors with Specialized Requirements

College-bound students who have a specific major in mind should attempt to satisfy the specialized requirements indicated below when building their high school course record.

Important! Colleges and universities have very specific requirements for admission. Students should check with their Academic Advisor, college catalog, or the institution’s admissions office for specific admissions requirements and recommendations.

Business Majors

- Four units of Mathematics, including Algebra II (many require Pre-Calculus)

Nursing, Dental Hygiene, Physical Therapy, and Medical Technology Majors

- Biology and Chemistry with labs
- Three units of Mathematics, including Algebra II
- Physics for physical therapy and medical technology

Mathematics, Computer Science, Engineering, and Architecture Majors

- Four units of Mathematics, including Algebra II and Trigonometry/Elementary Analysis (Pre-Calculus)
- One unit of AP Physics strongly recommended for engineering.
- A course in Art and/or the presentation of an Art Portfolio recommended for architecture.

Biology, Chemistry, Physics, Pre-Med, Pre-Dental, Pre-Vet, and Pre-Health Majors

- AP Biology, AP Chemistry, and AP Physics I (with labs)

Humanities, Social Sciences, and Education Majors

- Courses as outlined above for all college-bound students
- As many elective courses as are available in areas of specific interest
Pre-Law Majors
Courses as outlined above for all college-bound students (law schools do not prefer one major over another).

Fine Arts and Applied Arts Majors
- Courses as outlined on Page 8 for all college-bound students
- As many courses as are available in specific areas of interest (Art, Yearbook, Band, Choir, Theatre Arts, and Communications)

Types of Colleges with Additional Considerations
Out-of-state colleges and more competitive colleges often have additional requirements or recommendations for students who plan to apply for admission.

Public Colleges
- Some out-of-state colleges are highly competitive for entrance by out-of-state students (for example, University of Virginia, William and Mary, and University of Colorado).
- Certain test scores may be expected along with the GPA.
- Less intensive courses (extended algebra and physical science) may not be accepted by many colleges and universities.

Competitive Private Colleges
Competitive private colleges (for example, Vanderbilt, Trinity, Southern Methodist University, University of the South, Emory University, Baylor University, Austin College, University of Southern California, Washington University, Tulane/Newcomb University, and Texas Christian University) may have the following additional considerations:
- A minimum of four courses each year is preferred from five major subject areas (English, Mathematics, Science, Social Science, and Foreign Language).
- Students should be involved in extracurricular activities in several areas, with leadership experience in at least one area of interest.
- Students should take multiple AP courses.
- SAT and ACT scores must be commensurate with a student’s GPA.

Highly Competitive Private Colleges
Highly competitive private colleges (for example, Ivy League colleges, Amherst, Williams, Smith, Pomona, Wellesley, Duke, Barnard, MIT, Stanford, Georgetown, Rice, Harvard, Princeton, and U.S. Service Academies) may have the additional following considerations:
- A minimum of four courses each year is preferred from five major subject areas (English, Mathematics, Science, Social Science, and Foreign Language).
- Students should rank in the top 10 percent of their graduating class.
- Students should take multiple AP courses.
- Students should be involved in extracurricular activities in several areas, with leadership experience in at least one area of interest.
- Students should have either a combined SAT score (Critical Reading plus Math) of 1310 or higher (old SAT format), or an ACT composite score of 30 or higher (meeting the appropriate benchmarks).
Sending Transcripts to Post-Secondary Institutions

Students submitting an official transcript to a college or university, the NCAA, or a scholarship foundation should request a transcript from the Academic Advising Office through the transcript request page on the LCS website.

Every effort is made to complete requests as quickly as possible. However, please allow up to one week for processing requests. Liberty submits transcripts electronically when applicable. Otherwise, a paper transcript is sent through the U.S. Postal Service. Additionally, transcripts submitted by LCS do not include PSAT, SAT, or ACT scores. Colleges must receive test scores directly from the testing institution. Students must contact College Board (SAT) and/or ACT to request submission of their scores to specific colleges.

Note: For more information about sending test scores, visit www.collegeboard.org and www.actstudent.org. For more information about the college application process, please refer to the “Timeline for College Admissions” in the Liberty Christian School Student/Parent Handbook.
Upper School Course Catalog
Course Descriptions for Grades 9–12

NEW AND UPDATED UPPER SCHOOL OFFERINGS

The following courses have been added or updated to the Upper School (US) Catalog for 2018–2019:

- **Aerospace Science** – See Page 36.
- **Broadcast Journalism** – See Page 21.
- **Computer Science Pre-AP** – See Page 14.
- **Drawing and Painting III & IV** – See Page 23.
- **Game Development and Design** – See Page 14.
- **Human Geography Pre-AP** – See Page 41.
- **Introduction to Mobile App Development** – See Page 15. – (Course not available for 2018–2019)
- **AP Physics C: Electricity and Magnetism** – See Page 40.
- **Sculpture and Ceramics III & IV** – See Page 24.
- **Solar Car** – See Page 40. – (Course not available for 2018–2019)
- **STEM: Maker** – See Page 40.
- **Student Technology Internship** – See Page 16.
Bible

In keeping with Liberty’s Christian emphasis, students in grades 9–12 are required to be enrolled in their grade-level Bible class each semester.

The Life of Christ

Prerequisite: None
Grade: 9
Length: Two semesters
Credit: 1

Built on the PositiveAction Bible Curriculum series, “The Life of Christ” course focuses on the cornerstone of Christianity – Jesus Christ. It is designed to engender a deeper understanding of the person and purpose of Christ, the redemptive plan of God for mankind through Him, and to see how the narrative unfolds in Scripture by reviewing the events surrounding Jesus’ life. The course provides an in-depth look at the character of Christ and the practical application of His teachings through a careful study of the Gospel of John.

Christian Discipleship

Prerequisite: None
Grade: 10
Length: Two semesters
Credit: 1

Built on the PositiveAction Bible Curriculum series, “Christian Discipleship: The Inner Person in Christ” focuses on the foundation of Christianity. As followers of God, Christians must be “strengthened with might by His Spirit in the inner man” (Ephesians 3:16). This course focuses on inward development, not just outward conformity. It shows from Scripture how righteousness is the result of the Lord changing His people, making their actions the result of inward purity and strong character.

Systematic Theology

Prerequisite: None
Grade: 11
Length: Two semesters
Credit: 1

Built on the PositiveAction Bible Curriculum series, the “Systematic Theology” course focuses on the framework for biblical Christianity. The unfolding portrait of God’s nature (eternal, holy, triune, omniscient, omnipresent, immutable, loving, etc.), His hypostatic incarnation in Jesus Christ, and His unfolding plan for humanity will help students understand the purpose and character of God through Jesus Christ for the ultimate purpose of being known by God (Matthew 7:21–23 and Galatians 4:9).
Christian Humanities

Prerequisite: None
Grade: 12
Length: Two semesters
Credit: 1

Applied through a number of dialogues/formal writings developed over the years by the instructor and daily exegetical studies in a variety of New Testament writings, this course focuses on the application of biblical Christianity. Accordingly, students will study a myriad of topics – from abortion to Zoroastrianism, politics to world religions, philosophy to homosexuality – to develop the ability to articulate and defend their beliefs. Every worldview, from cultural Christianity to atheism, will be challenged intellectually to cast off myths and establish biblical truth. Please know that the accomplishment of these objectives often requires in-class discussions about real-world topics, guided prudently by the instructor for the benefit of the students and to assist parents in insulating but not isolating students from the world.

The Writings of Luke

Prerequisite: None
Grades: 9–12
Length: Two semesters
Credit: 1 (Elective credit only)

Career and Technology

Today's world of advanced technology and competitive lifestyles requires that schools expand opportunities for students to prepare for college and the world of work. Career and Technology empowers individuals to manage the challenges of living and working in a diverse, global society. Career and Technology courses are designed to provide students with the opportunity to make informed occupational choices, determine educational needs and options, develop employability traits, and acquire marketable skills.

Computer Science Pre-AP

Prerequisite: None
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 9–12
Length: Two semesters
Credit: 1 (Technology credit)

This course is an introduction to computer science and Java programming. The emphasis is on methodical problem solving. No previous computer science class is required.

AP Computer Science Principles

Prerequisite: None
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 9–12
Length: Two semesters
Credit: 1 (Technology credit)

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. This class will prepare students for the end-of-year AP Exam, as well as for course assessments that explore the implications of computing innovations by creating a computer application. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

Game Development and Design

Prerequisite: None
Grades: 9–12
Length: Two Semesters
Credit: 1

Students will learn basic and intermediate game programming, including graphics, sound, input, artificial intelligence, and more. Curriculum will be project based, working individually and in groups. Students will create their own games for multiple platforms. Students will learn core elements of digital game design, including design processes, game logic, balancing and testing methods, and distribution methods. The course will trace the game development cycle from initial idea to completion multiple times, both in individual and group settings.
Introduction to Business, Management, and Ethics

Prerequisite: None  
Grades: 11–12  
Length: Fall semester  
Credit: .5

In this course, students will gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students will analyze the sales process and financial management principles. This course will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Introduction to Mobile App Development – (Course not available for 2018–2019)

Prerequisite: None  
Grades: 9–12  
Length: Two Semesters  
Credit: 1

This course teaches the basics of mobile app development using basic programming skills and iOS frameworks. By applying real-world industry tools and best practices, students will create several working applications (apps) that grow in complexity throughout the year.

Personal Finance

Prerequisite: None  
Grades: 11–12  
Length: Spring semester  
Credit: .5

The goal of Personal Finance is to help students become financially responsible, conscientious members of society. To reach that end, this course develops students’ understanding and skills in such areas as money management, budgeting, financial goal attainment, the wise use of credit, insurance, investments, and consumer rights and responsibilities. This course will give students the tools and resources needed to make wise financial decisions. Students will analyze their personal financial decisions, evaluate the costs and benefits of their decisions, recognize their rights and responsibilities as consumers, and apply the knowledge learned to financial situations encountered later in life.

PSAT Prep Team

Prerequisites: Sophomores will be invited to attend this class based on their 10th grade PSAT index score. Students must have completed Algebra II by the end of 10th grade.

Grade: 11  
Length: Fall semester only  
Credit: .5

PSAT Prep Team is an intensive course that prepares students for the PSAT test, which is administered in October of their junior year. This course is by invitation only. The invitation is based on students’ previous PSAT index score on the PSAT taken in 10th grade. This rigorous course is designed to improve both verbal and quantitative test scores. An integral component of this course is mandatory attendance at a summer seminar and several Saturday sessions preceding the October PSAT administration. After the PSAT, students will prepare for the SAT and ACT tests for the remainder of the semester.
Speech

Prerequisite: None
Grades: 9–12
Length: Fall or Spring semester
Credit: .5 (Speech credit)

Speech, like any other skill, improves with preparation and practice. This class helps develop students’ speaking skills in a variety of forums. These forums include interpersonal and group communication, persuasive speaking, informative speaking, and extemporaneous speaking.

Student Technology Internship

Prerequisite: Interview
Grades: 9–12
Length: Two semesters
Credit: 1

The Student Technology Internship class is a hands-on study of technology integration in a learning context. Students will be required to assess problem sets throughout the day and define the best approach to addressing or solving the problem. Students will be a part of a team of students and current technology employees to learn and provide customer support for the school community. In addition to solving problems for students and teachers, students will be required to complete and maintain several running projects that address problems or solutions in educational technology integration. The course also provides students with the opportunity to pursue independent learning interests within innovation and technology. Students will be able to collaborate with the LCS community through events, professional development, and on-site support. To be successful in this course, students should have a prior understanding of Apple OS, Microsoft Windows OS, and the iPad iOS.

Technology, Entrepreneurship, and Communication (TEC)

Prerequisite: None
Grades: 9–12
Length: Fall or Spring semester
Credit: .5 (Technology credit)

This TEC course replaces the former Business and Professional Communications (BPC) course. This course will challenge students to apply the major areas of technology in building and marketing a business with a blend of oral and graphic communication. Students will be challenged to think critically, design, create, communicate, and collaborate using appropriate technology to build their business. During this process, students will learn basic word processing and business office tools. This class will also give students a foundation in basic business and advertising principles including Adobe software to do basic graphic design (Photoshop and InDesign). Students will be expected to create an innovative business, product, or idea similar to the show “Shark Tank” by the end of the course.
**ENGLISH**

The English Department utilizes a Christian-based curriculum to instill in students a love and appreciation for quality literature, while increasing their love for and knowledge of the Lord. Various aspects of literature, including solid grammatical instruction and an emphasis on vocabulary, all unite to form the components of this discipline. The program promotes effective and creative communication, while developing critical and abstract thinking skills. Students examine the values and beliefs in literature that provide opportunities to analyze and evaluate moral ethics, incorporating godly principles as lofty goals to embrace in life. The primary goal of the English Department is to equip students with sophisticated language skills, enabling them to be successful on any university campus and be effective, confident, and well-read Christian citizens.

**English I**

*Prerequisite: English 8*  
*Grade: 9*  
*Length: Two semesters*  
*Credit: 1*

This course teaches the fundamentals of literature and language skills through reading, writing, and oral communication. There is a strong emphasis on reading comprehension, including exercises with short stories and novels. Vocabulary and grammar units are utilized to improve writing in areas of structure and content. Writing skills are developed through essays and research papers using the MLA and APA formats. Summer reading is also a vital part of the course.

**English I Pre-AP**

*Prerequisite: English 8*  
*See Page 3 for more information about Pre-AP/AP requirements.*  
*Grade: 9*  
*Length: Two semesters*  
*Credit: 1*

This accelerated course teaches the fundamentals of English I and increases the ability to independently express ideas through writing and oral discussion. Students demonstrate reading comprehension via novels and short stories. Students improve writing skills through paragraph development and grammar exercises. Two research papers using the MLA and the APA formats are incorporated into the writing activities. Summer reading is also a vital part of the course.

**English II**

*Prerequisite: English I*  
*Grade: 10*  
*Length: Two semesters*  
*Credit: 1*

This survey course of the world’s great literature incorporates the classic writings of the Greek and Roman period and extends into the 20th century. In addition to analyzing literature, the course covers writing, vocabulary, and grammar. Two research papers are required in the APA and Chicago formats for this class. Summer reading is also a vital part of the course.
English II Pre-AP

Prerequisite: English I

See Page 3 for more information about Pre-AP/AP requirements.

Grade: 10

Length: Two semesters

Credit: 1

This course focuses on an accelerated survey of world literature with a major emphasis on reading and writing skills and increased vocabulary. Various novels are studied in addition to plays by famous playwrights, such as Sophocles and Shakespeare. Grammatical skills and proficient writing techniques are also incorporated along with research papers utilizing the Chicago and APA formats. Summer reading is also a vital part of the course.

English III

Prerequisite: English II

Grade: 11

Length: Two semesters

Credit: 1

This course focuses on representative authors of American literature from the early 1600s to the present. These works reflect the growth and changes that occurred during this time period and provide a sense of the cultural and historical differences that are present in American literature. The course reinforces grammar and vocabulary skills. The course also focuses on composition in a variety of forums including, but not limited to, poetry, essays, oral presentations, and research papers in the APA and MLA formats. Summer reading is also a vital part of the course.

AP English Language and Composition

Prerequisite: English II

See Page 3 for more information about Pre-AP/AP requirements.

Grade: 11

Length: Two semesters

Credit: 1

This college-level course is designed to enable students to develop skills in language and composition equivalent to the freshman-level class in most universities. The course prepares students to successfully master the AP Exam in English Language and Composition and to enter upper-level college courses with a firm foundation in all aspects of language and mechanics. The class centers on American literature, fiction and nonfiction, and how the works relate to the author's time period as well as present day. The course also focuses on composition in a variety of forums including, but not limited to, poetry, essays, oral presentations, and research papers in the APA and MLA formats. The completion of three summer reading novels is an important part of the course. Students taking this course are required to take the AP English Language and Composition Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.
English IV

Prerequisite: English III
Grade: 12
Length: Two semesters
Credit: 1

British literature is the curriculum foundation of this senior-level course. Sophisticated and effective writing techniques are emphasized throughout this year-long class, and the three major writing formats, Chicago, APA, and MLA, are utilized. Increasing the students’ vocabulary and reviewing Greek and Latin roots and prefixes also contribute to the focus of the curriculum. Critical reading skills are a major focus in this class including novels, plays, short stories, and poetry that are read and analyzed throughout the year. The course is designed to equip students with the skills necessary to be successful at the collegiate level of education, while emphasizing Christ and drawing students closer to the Lord. Summer reading is an essential component of this class, helping students prepare for the self-discipline needed to excel at the collegiate level.

AP English Literature and Composition

Prerequisite: English III
See Page 3 for more information about Pre-AP/AP requirements.
Grade: 12
Length: Two semesters
Credit: 1

This college-level course is designed to develop skills in literature and composition beyond those customarily acquired in a regular senior class. The course prepares students to successfully master the English Literature and Composition AP Exam and to enter upper-level college courses with a firm foundation in all aspects of language and mechanics. The class focuses on British literature, with an emphasis on advanced, mechanically sound writing techniques and sophisticated critical thinking and analytical skills. The first semester involves an emphasis on expository and argumentative writing, while the second semester focuses on a variety of literature including prose and poetry. Various technical writing formats and novels are also incorporated into this curriculum. Summer reading is an essential component of the course. Students taking this course are required to take the AP English Literature and Composition Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.
Fine Arts

The goal of the Fine Arts Department is to encourage the creativity, talents, ideas, skills, and imagination of each student who is interested in the visual and performing arts. Each teacher is filled with a passion to guide students to explore their God-given talents in positive ways through self-expression and the beauty of creativity. The Fine Arts Department strives to walk out the words of Ephesians 2:10, “For we are God’s handiwork, created in Christ Jesus to do good works, which God prepared in advance for us to do.”

Acapella Choir – (Course not available for 2018–2019)

Prerequisite: Audition
Grades: 9–12
Length: Two semesters
Credit: 1

The Acapella Choir is a small mixed choir selected by audition. This group sings all styles of repertoire, with an emphasis on vocal blend. Students will learn to read music, sing with proper vocal technique, and perform in various venues. The Acapella Choir also participates in TAPPS Regional and State Competitions. This group of singers is ready to take music to the next level!

Art I

Prerequisite: None
Grades: 9–12
Length: Two semesters
Credit: 1

This course emphasizes basic elements of art (line, shape/form, value, space, and color) and principles of design (proportion, repetition, balance, variety, and unity) within the disciplines of drawing, painting, printmaking, pottery, and sculpture. A wide variety of media is explored including graphite, pastels, colored pencils, watercolor, acrylic, collage, clay, and mixed media. This course is designed to enhance students’ creative and technical abilities in art. Daily assignments and longer projects are assigned to enhance students’ proficiency of self-expression. Students will be introduced to art history through projects and presentations.

Art Photography

Prerequisite: Art I
Grades: 10–12
Length: Two semesters
Credit: 1

This course focuses on students’ technical development with photography while honing their aesthetic sensibilities. Students improve their skills with digital cameras and become familiar with aperture, shutter speed, depth of field, and other technical aspects of photography. Much of class time is spent developing and modifying images in Adobe Photoshop.
Band

Prerequisite: None
Grades: 9–12
Length: Two semesters
Credit: 1 (Fine Arts or Physical Education credit)

The Upper School Band comprises the Pep Band and Marching Band in the fall, and the Concert Band and Jazz Band in the spring. The Pep Band and Marching Band, along with the Drum Line, focus on various styles of music (for example, pop, rock, and jazz) for performances at pep rallies and football games. The Concert and Jazz Bands perform at school concerts, competitions, and community concerts. The goal of this class is to provide students with a Christ-centered music education that includes music theory, improvisation, and the reading of sacred and secular literature. Students have the opportunity to participate in district and state competitions, community concerts, seasonal and holiday concerts, Artist’s Garden, and Fine Arts Department musical productions.

Broadcast Journalism

Prerequisite: None
Grades: 9–12
Length: Two semesters
Credit: 1

In this two-semester course, students will learn and gain experience in the four major areas of video journalism:

1. News Writing and Editing
2. Directing and Planning
3. Filming and Post-Production
4. Public Speaking and Anchoring

Students will cycle through the four areas of video journalism, switching each quarter. For example, in the News Writing and Editing section, students will learn what makes news newsworthy, journalism ethics and copyright rules, interviewing skills, AP Style rules, and screenwriting for news.

Chorale

Prerequisite: Audition
Grades: 9–12
Length: Two semesters
Credit: 1

Chorale is a mixed choir selected by audition. This group sings serious repertoire as well as pop and Broadway styles of music. Students will learn to read music, sing with proper vocal technique, and perform in various venues. Chorale participates in TAPPS Regional and State Competitions. This exciting group will be challenged to reach their full potential!
Dance Team

Prerequisite: Audition
Grades: 9–12
Length: Two semesters
Credit: 1 (Fine Arts or Physical Education credit)

The Dance Team is made up of young women dedicated to dancing as they cheer for the LCS sports teams. Dance Team increases school spirit and performs at various halftime events. A dancer is dedicated to early morning practices, after-school sporting events, competitions, clinics, and community performances, as well as performing in Artist's Garden. The time commitment consists of daily practices, frequent weekend practices, and other after-school requirements. Above all, an LCS dancer has a personal, growing relationship with Jesus Christ. Dance Team members are selected in the spring. Character, grades, conduct, recommendations, and talent are all considered.

Digital Media Production

Prerequisite: None
Grades: 9–12
Length: Two semesters
Credit: 1

Digital Media Production is an introductory course giving students the opportunity to bring their ideas to life using video, audio, and graphics. Students will gain experience with the fundamentals of shooting video, video editing, lighting techniques, and audio mixing, leading up to more advanced experience in motion graphics, script writing, studio production, and multi-camera live event shooting. This entry level course will focus on giving the students a strong working knowledge of today's digital media technologies such as terminology, safety, lighting, camera function, videography/audio technique, and industry programs/software. Projects for this class will include setting up and shooting interviews, creating short spots and sport highlights, and running multi-camera live events. Students will be involved in live productions and will be required to attend events throughout the school year.

Digital Media Production – Advanced

Prerequisite: Digital Media Production
Grades: 10–12
Length: Two semesters
Credit: 1

Advanced Digital Media Production will enhance Level I skills by introducing more in-depth and specialized experiences in videography, editing, lighting, and computer programs/software. Projects for this class will focus on creating a portfolio and digital “brand” for student work including short film, commercial/promo, digital marketing, and event broadcasting. Students will also be involved in live productions and will be required to attend events throughout the school year.

Digital Media Production Portfolio

Prerequisite: Digital Media Production - Advanced
Grades: 11–12
Length: Two semesters
Credit: 1

This course will enhance skills gained from “Digital Media Production – Advanced” by introducing more in-depth and specialized experiences in genres of film (including Public Service Announcements, documentaries, commercials, and short film narratives.) Students will be required to create a portfolio.
Drawing and Painting I

*Prerequisite: Art I*
*Grades: 9–12*
*Length: Two semesters*
*Credit: 1*

This intermediate course is designed to enhance students' abilities with two-dimensional art. Students will progress through advanced drawing concepts with a number of different media. They will then utilize their drawing skills within painting and mixed-media assignments. Each student will strive to create original artwork at a competition level.

Drawing and Painting II, III, and IV

*Prerequisite: Drawing and Painting I, II, or III, respectively*
*Grades: 10–12*
*Length: Two semesters*
*Credit: 1*

Students will further explore drawing and painting mediums. An emphasis will be placed on competition-level works and personal expression.

Encore

*Prerequisite: Theatre I plus audition*
*Grades: 10–12*
*Length: Two semesters*
*Credit: 1 (Fine Arts, Physical Education, or Speech credit)*

This advanced theatre course is designed for students who wish to continue studying acting as part of a theatrical troupe. Students will perform, direct, and compete in various scenes, plays, and school-wide productions. Students also explore stagecraft and technical theatre, as well as directing and producing. Students must be willing to participate in productions, competitions, and many other projects. Throughout the preparation of each project, students explore acting styles, acting methods, and various areas of theatre. This class requires outside rehearsals, performances, and travelling.

Graphic Design/Digital Art

*Prerequisite: Art I*
*Grades: 10–12*
*Length: Two semesters*
*Credit: 1*

Students will use Adobe Photoshop, Adobe Illustrator, and other programs to create graphic design images, digital sketches, and paintings. Technical aspects of digital brushes, painting tools, and layering images will be explored. Elements of art and principles of design will be stressed as students learn to navigate within computer programs to create original artwork.
Guitar and Strings – (Course not available for 2018–2019)

Prerequisite: None  
Grades: 9–12  
Length: Two semesters  
Credit: 1

This course focuses on performance fundamentals of playing acoustic guitar, electric guitar, and bass guitar, as well as violin, viola, cello, and double bass instruments. Students will learn a variety of styles including classical and jazz, along with modern rock, pop, country, and worship. The goal of this class is to provide students with a Christ-centered music education, including music theory, improvisation, and the reading of sacred and secular literature. Students will have the opportunity to perform a series of events including regional and state-wide competitions through TAPPS and Texas Private School Music Educators Association (TPSMEA), as well as community, seasonal, and holiday concerts.

Liberty Belles – (Course not available for 2018–2019)

Prerequisite: None  
Grades: 9–12  
Length: Two semesters  
Credit: 1

The Liberty Belles is a girls choir for grades 9–12. No prior choral experience is necessary – just a great attitude! Students will participate in the Fall Concert, Christmas Concert, TAPPS, and Artist's Garden, and will have the option of participating in Texas Private School Music Educators Association (TPSMEA). Students will learn to read music and will perform in both pop and classical styles. This class is perfect for those who want to give choir a try and for those who enjoy an "all girls" ensemble.

Sculpture and Ceramics I

Prerequisite: Art I  
Grades: 9–12  
Length: Two semesters  
Credit: 1

This intermediate course is designed to enhance students' abilities with three-dimensional art. Functional pieces, relief sculpture, and sculpture will be explored with a variety of media. While wheel-throwing and hand-building with clay, students will create work that is structurally sound and visually elegant. Clay principles and firing techniques will be explored in-depth. Additionally, students will explore other areas of 3D art using a variety of materials such as cardboard, wire, papier-mâché, and wood. Each student will be encouraged to create original competition-level artwork.

Sculpture and Ceramics II, III, and IV

Prerequisite: Sculpture and Ceramics I, II, or III, respectively  
Grades: 10–12  
Length: Two semesters  
Credit: 1

Students will further explore other sculpture and ceramic ideas. An emphasis will be placed on competition-level works and personal techniques.
AP Studio Art 2D Design

Prerequisites: Drawing and Painting I or Art Photography, and instructor approval
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 10–12
Length: Two semesters
Credit: 1

This course is designed to help students create and develop a portfolio of artwork. Students create artwork for the concentration, breadth, and quality sections of their portfolio. While creating their portfolio, students develop competition-level artwork. This course will result in the student completing a 2D design portfolio using the guidelines set by the AP College Board. Students taking this course are required to take the AP Studio Art 2D Design Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

AP Studio Art 3D Design

Prerequisites: Sculpture and Ceramics I and instructor approval
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 10–12
Length: Two semesters
Credit: 1

Students will explore three-dimensional forms with a variety of materials, such as clay, wood, plaster, papier-mâché, found objects, and fabric. These raw materials will be used in creating expressive sculptural designs that incorporate form and space, and relate the three-dimensional form to its environment. Students will produce several projects of high quality, college-level artwork. These projects will begin with exploring the elements and principles of design, and will involve each student developing an individual line of enquiry, experimentation, and risk-taking. Summer work is highly recommended. This course will result in the student completing a 3D design portfolio using the guidelines set by the AP College Board. Students taking this course are required to take the AP Studio Art 3D Design Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

AP Studio Art Drawing

Prerequisites: Drawing and Painting I and instructor approval
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 10–12
Length: Two semesters
Credit: 1

In this course, students will address a very broad interpretation of drawing issues and media. Line quality, light and shade, rendering of form, composition, surface manipulation, and the illusion of depth and mark-making are drawing topics that can be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. This course will result in the student completing a drawing portfolio using the guidelines set by the AP College Board. Students taking this course are required to take the AP Studio Art Drawing Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.
Theatre I

*Prerequisite: None*

*Grades: 9–12*

*Length: Two semesters*

*Credit: 1*

This course introduces students to the principles of acting through studying various acting styles and notable teachers. Students participate in workshops that explore improvisation, competitive drama, and various scene work including monologues, theatre history, duet acting, and more.

Worship Culture

*Prerequisites: Audition and interview*

*Grades: 10–12*

*Length: Two semesters*

*Credit: 1*

This course introduces students to leading the body of Christ in worship through the art of music. Students will worship together and learn more about instruments, singing, harmonizing, and song writing. Students will also participate in the Christmas Concert and TAPPS.

Yearbook

*Prerequisite: None*

*Grades: 10–12*

*Length: Two semesters*

*Credit: 1*

This class introduces first-time yearbook students to journalism, graphic design, and photography. Students who have taken the class before will be expected to delve deeper into each of these areas and have a higher level of productivity. The class will use Jostens Yearbook Avenue software and Canon 40D, 50D, 60D, and 70D cameras. It requires time management and self-motivation. Photoshop and/or art photography experience is a tremendous benefit but not required.
FOREIGN LANGUAGE

Christians are called to be salt and light in this world. In humility, students gain and learn from other people groups and their cultures. The prayer of the Foreign Language Department is to develop in students an interest, an enthusiasm, and a love for people in other parts of the world through the study of their language and culture.

“If you talk to a man in a language he understands, that goes to his head. If you talk to him in his language that goes to his heart.” – Nelson Mandela

German I – (Course not available for 2018–2019)

Prerequisite: None
Grades: 9–12
Length: Two semesters
Credit: 1

German I is a fun, interactive course designed to introduce students to the German language and culture. Emphasis will be on the acquisition of four skills: listening, speaking, reading, and basic writing. The primary goal is to give students the ability to carry on a simple conversation in German, including asking and answering questions. Students will also learn how to say a basic prayer in German, share basic information about German songs and singers, and read and discuss simple novels in German. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

German II Pre-AP – (Course not available for 2018–2019)

Prerequisite: German I
Grades: 9–12
Length: Two semesters
Credit: 1

German II Pre-AP continues the study of German language and culture. Through the study of relevant, real-world, theme-based units, the aim of this class is to continue the refinement of four elements of language study: listening, speaking, reading, and writing. In this course, students will expand their conversational vocabulary. They will listen to and study traditional and pop German music, watch commercials, and read short novels in German. Students will also learn to write and recite their own prayers in German. More advanced grammar concepts will be emphasized in each unit of study. This class will be conducted primarily in German and students are expected to increase in their oral and written proficiency. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

German III Pre-AP

Prerequisite: German II Pre-AP
Grades: 11–12
Length: Two semesters
Credit: 1

German III Pre-AP builds on skills acquired in German II Pre-AP. Students will develop more advanced skills in speaking, listening, reading, and writing, with an emphasis on the ability to communicate in the past, present, and future tenses. The content of this course will be accelerated and expanded to include more vocabulary and grammar. Students will study the culture, history, geography, and literature of Germany. The class will be conducted in German, and students are expected to respond in German. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
German IV Pre-AP – (Course not available for 2018–2019)

Prerequisite: German III Pre-AP
Grade: 12
Length: Two semesters
Credit: 1

The majority of this course is taught in German, as students explore the cultures of German-speaking people in a way that connects meaningfully to their lives. Units focus on health issues, food and culture, mission field work, novels, and German film. The focus is on interpersonal and listening skills for communication, although students will continue to develop writing and reading skills as well. Students wishing to take the German AP Exam at the end of the course will be provided with AP resources to study independently. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Mandarin I

Prerequisite: Approval from academic advisor
Grades: 9–12
Length: Two semesters
Credit: 1

Throughout this course, students will develop their listening, speaking, reading, and writing skills, with an emphasis on oral communication. Students will expand upon a basic prayer in Chinese, share basic information, and learn Chinese songs as a fun way to acquire the Chinese language. Each unit in the course covers a specific theme that includes new vocabulary and language notes, with a guided practice in communicative context.

Students are encouraged to take this course, as it could have a huge impact on their future. “Tomorrow’s leaders must be able to compete, work and thrive in a globalized world with diverse, multilingual consumers and economies in which China and the U.S. will continue to be major players.” (U.S. News – October 25, 2016)

Note: Students considering taking Mandarin need to be aware that the Foreign Service Institute ranks Mandarin as a Category V language, the highest ranking of difficulty.

Mandarin II Pre-AP – (Course not available for 2018–2019)

Prerequisite: Mandarin I
Grades: 10–12
Length: Two semesters
Credit: 1

Mandarin II is a continuation of the study of the Chinese language and Chinese-speaking cultures, focusing on building vocabulary and readings of culturally relevant authentic materials. Students read a simple novel in Chinese. Emphasis is on developing oral, listening, reading, and writing skills to acquire proficiency in Chinese. Students will also learn to write and recite their own prayers in Chinese.
Mandarin III Pre-AP

Prerequisite: Mandarin II Pre-AP
Grades: 11–12
Length: Two semesters
Credit: 1

This course includes the review and application of high frequency Chinese words and advanced grammar concepts. Students will read an intermediate level novel in Chinese. Cultural connections and biblical truths are interwoven throughout the course. This class will be conducted primarily in Chinese, and students are expected to increase their oral and written proficiency because of the rigor of this class. Students will also develop their own prayers, share prayer requests, and pray in Chinese.

Mandarin IV Pre-AP – (Course not available for 2018–2019)

Prerequisite: Mandarin III Pre-AP
Grade: 12
Length: Two semesters
Credit: 1

Mandarin IV Pre-AP aims at laying a solid foundation in language form and accuracy. A task-based teaching approach is implemented to intensify students’ motivation and heighten their awareness of the learning objectives in each unit. This class will be conducted primarily in Chinese, and students are expected to increase their oral and written proficiency because of the rigor of this class. Units focus on the computer world, entertainment, lifestyles, jobs, housing, and Chinese festivities. Students will also develop their own prayers, share prayer requests, and pray in Chinese.

Spanish I

Prerequisite: None
Grades: 9–12
Length: Two semesters
Credit: 1

Spanish I is a fun, interactive course designed to introduce students to the Spanish language and culture. Emphasis will be on the acquisition of four skills: listening, speaking, reading, and basic writing. The primary goal is to give students the ability to carry on a simple conversation in Spanish, including asking and answering questions. Students will also learn how to say a basic prayer in Spanish, share basic information about Latino songs and singers, and read and discuss simple novels in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Spanish II

Prerequisite: Spanish I
Grades: 9–12
Length: Two semesters
Credit: 1

Spanish II is a continuation of the study of the Spanish language and culture. Emphasis will be on the acquisition of four skills: listening, speaking, reading, and basic writing. The primary goal is to expand students’ ability to carry on a conversation in Spanish, including asking and answering questions. Students will also learn how to expand a basic prayer in Spanish, share information about Latino songs and singers, and read and discuss simple novels in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Spanish II Pre-AP

Prerequisite: Spanish I
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 9–12
Length: Two semesters
Credit: 1

Spanish II Pre-AP continues the study of Spanish language and culture. Through the study of relevant, real-world, theme-based units, the aim of this class is to continue the refinement of four elements of language study: listening, speaking, reading, and writing. In this course, students will expand their conversational vocabulary. They will listen to and study traditional and pop Latino music, watch commercials, and read short novels in Spanish. Students will also learn to write and recite their own prayers in Spanish. More advanced grammar concepts will be emphasized in each unit of study. This class will be conducted primarily in Spanish, and students are expected to increase in their oral and written proficiency at a faster pace than the regular Spanish II class. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Spanish III

Prerequisite: Spanish II
Grades: 10–12
Length: Two semesters
Credit: 1

Spanish III includes the review and expansion of significant vocabulary and grammatical structures. Students will listen to and study traditional and pop Latino music, watch commercials, and read two intermediate level novels in Spanish. More advanced grammar concepts will be emphasized in each unit of study. This class will be conducted primarily in Spanish, and students are expected to increase in their oral and written proficiency because of the rigor of this upper level class. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Spanish III Pre-AP

Prerequisite: Spanish III
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 10–12
Length: Two semesters
Credit: 1

Spanish III Pre-AP builds on skills acquired in Spanish II Pre-AP. Students will develop more advanced skills in speaking, listening, reading, and writing, with an emphasis on the ability to communicate in the past, present, and future tenses. The content of this course will be accelerated and expanded to include more vocabulary and grammar than regular Spanish III. Students will study the culture, history, geography, and literature of Spanish-speaking countries. The class will be conducted in Spanish, and students are expected to respond in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Spanish IV Pre-AP

Prerequisite: Spanish III Pre-AP
Grades: 11–12
Length: Two semesters
Credit: 1

The majority of this course is taught in Spanish, as students explore the cultures of Spanish-speaking people in a way that connects meaningfully to their lives. Units focus on health issues, food and culture, mission field work, novels, and Spanish film. The focus is on interpersonal and listening skills for communication, although students will continue to develop writing and reading skills as well. Students wishing to take the Spanish AP Exam at the end of the course will be provided with AP resources to study independently. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

AP Spanish Language and Culture

Prerequisites: Spanish III plus instructor approval
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 11–12
Length: Two semesters
Credit: 1

This course focuses on Spanish language proficiency through mastery of fluency in speaking, writing, reading, and listening. Students will develop language skills and insight that can be applied to various real world scenarios and disciplines. Students taking this course are required to take the AP Spanish Language and Culture Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.
Mathematics

The Mathematics Department bases its vision of mathematical proficiency on the school’s role as a college preparatory school. The department strives to promote mathematical literacy and equip students with the mathematical skills needed to succeed at the university level, meet the challenge of tomorrow’s technology, and compete in the workforce.

Algebra I

*Prerequisite: Pre-Algebra*

*Grade: 9*

*Length: Two semesters*

*Credıt: 1*

This course is the first of a two-year study of algebra that is designed primarily for 8th grade students. Algebra I emphasizes rules, symbols, and the laws of arithmetic as applied to algebraic structure. Students obtain analytical and critical thinking skills that will be the basis for future math classes.

Algebra II

*Prerequisites: Algebra I and Geometry*

*Grades: 10–11*

*Length: Two semesters*

*Credıt: 1*

In this second year of a two-year study of algebra, Algebra II encourages mastery of concepts learned in Algebra I and introduces students to new algebraic concepts and skills necessary to develop proficiency in logical thinking and problem solving skills.

Algebra II Pre-AP

*Prerequisites: Algebra I and Geometry*

*See Page 3 for more information about Pre-AP/AP requirements.*

*Grades: 10–11*

*Length: Two semesters*

*Credıt: 1*

Algebra II Pre-AP encourages mastery of concepts learned in Algebra I and introduces students to new algebraic concepts and skills necessary to develop proficiency in logical thinking and problem solving skills. Compared to the standard Algebra II course, the Pre-AP course probes topics more deeply, investigates some additional topics, and moves at a faster pace.

Calculus

*Prerequisite: Pre-Calculus*

*Grades: 11–12*

*Length: Two semesters*

*Credıt: 1*

This course covers all essential topics for a first-year Calculus course, which includes elements of Differential Calculus and Integral Calculus. The AP Calculus course is more rigorous, both in how the material is presented and in the volume of outside classwork that is required.
AP Calculus AB

Prerequisite: Pre-Calculus Pre-AP
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 11–12
Length: Two semesters
Credit: 1

This course includes the topics of an entry-level college calculus course: limits, concavity, functions, derivatives and their applications, Riemann sums, integrals and their applications, Euler’s method, l’Hopital’s rule, and slope fields. This course is valuable for any student planning to pursue college studies in the sciences, mathematics, or business. Students taking this course are required to take the AP Calculus AB Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

College Algebra – (Course not available for 2018–2019)

Prerequisite: Pre-Calculus
Grade: 12
Length: Two semesters
Credit: 1

This fundamental course includes solutions of equations and inequalities, systems of equations, algebraic functions, polynomial functions, rational functions, exponential and logarithmic functions, matrices, and conic sections. Additional topics such as sequences, series, and probability may be included.

Foundations of College Algebra

Prerequisite: Algebra II
Grades: 11–12
Length: Two semesters
Credit: 1

Students will extend their mathematical understanding beyond the Algebra II level through further study of functions, inverses, transformations, and compositions. Applications using data, regression models, sequences and series, probability, and matrices will also be studied. This course is designed to be a bridge for students between Algebra II and college level math.

Geometry

Prerequisite: Algebra I
Grades: 9–10
Length: Two semesters
Credit: 1

This course is ordinarily taken in the 9th grade. The primary focus of the course is Euclidean (plane) geometry with formal geometric proof. Solid geometry concepts are introduced later in the course. The course also teaches orderly logical thinking and result writing.
Geometry Pre-AP

Prerequisite: Algebra I
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 9–10
Length: Two semesters
Credit: 1

This course is designed for students who excel in math and is ordinarily taken in the 9th grade. This course covers topics in greater depth, progresses at a faster pace, and covers more topics than regular Geometry.

Pre-Calculus

Prerequisites: Geometry and Algebra II
Grades: 11–12
Length: Two semesters
Credit: 1

The scope of the course includes trigonometry, identities, functions, graphing, conic sections, and matrices. This course is recommended for students interested in pursuing university studies in the sciences, mathematics, or business.

Pre-Calculus Pre-AP

Prerequisites: Geometry and Algebra II
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 11–12
Length: Two semesters
Credit: 1

The scope of the course includes trigonometry, identities, functions, graphing, sequences, series, conic sections, matrices, and an introduction to calculus. This course is recommended for students interested in pursuing university studies in the sciences, mathematics, or business. The Pre-AP course probes some topics in greater depth, investigates some additional topics, and moves at a faster pace than regular Pre-Calculus.

AP Statistics

Prerequisite: Pre-Calculus
See Page 3 for more information about Pre-AP/AP requirements.
Grade: 12
Length: Two semesters
Credit: 1

This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students taking this course are required to take the AP Statistics Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.
**Physical Education**

Enhancing the education of students through physical activity is an important step to attain positive health and mental fitness. Striving for excellence and creating strenuous adverse situations help prepare the whole student for the challenges and obstacles ahead and gives them the confidence to meet adversity with success. 1 Timothy 4:9 says, “For physical training is of some value, but godliness has value for all things, holding promise for both the present life and the life to come.”

**Athletics**

*Prerequisite: Completed medical physical*  
*Grades: 9–12*  
*Length: Two semesters*  
*Credit: 1*

Athletics is held during 8th period. This course is designed for students who wish to participate in at least one of the sports in the athletic program. Sports available for boys include football, basketball, baseball, soccer, wrestling, swimming, tennis, golf, track and field, and cross-country. Sports available for girls include volleyball, basketball, softball, soccer, swimming, tennis, golf, track and field, and cross-country. (Cheerleading is also included for girls, but it is listed as a separate course.) Students enrolled in athletics are required to stay in athletics all year. *(Please refer to the Student/Parent Handbook for specific Physical Education Department Guidelines.)*

**Cheerleading – Varsity Game Day and Competition Team**

Prerequisites for Varsity Game Day: Tryout; no tumble requirement but must be able to perform certain stunts.  
Prerequisites for Competition Team: Tryout; various tumble and stunt requirements.  
*Grades: 9–12*  
*Length: Two semesters*  
*Credit: 1*

The Varsity Cheerleading Squad comprises young women dedicated to cheering for LCS varsity sports teams and increasing school spirit. Commitments include attending tumble classes, afternoon practices, and occasional weekend practices. LCS Varsity Cheerleaders are also responsible for organizing locker decorations, participating in pep rallies, and managing youth camps and fundraisers. Above all, an LCS cheerleader has a personal growing relationship with Jesus Christ. The competition squad will also participate in three competitions a year, Regionals, State, and Nationals, which is held in Orlando, Fla. Cheer tryouts are held each year in the spring.

**P.E. Athletics**

*Prerequisite: None*  
*Grades: 9–12*  
*Length: Two semesters*  
*Credit: 1*

This course is designed for students who wish to fulfill their athletic credit for the requirements to graduate. These students will not be required to change into athletic clothing and cannot participate in a sport through the athletic program.
Science

The mission of the Science Department is to educate and challenge students to think creatively, logically, and analytically and to stimulate interest in the sciences that provide a solid foundation for the next level of education. Students examine God’s creation and learn from teachers who provide a safe environment, hands-on experiences, and emphasize a working understanding between science and theology that leads toward practical growth in the students’ relationship with God.

Aerospace Science

Prerequisite: Algebra II or concurrent
Grades: 10–12
Length: Two semesters
Credit: 1 (Elective credit only)

Aerospace Science will introduce students to the concepts and theories governing aerospace vehicles. In addition to rocketry, vertical and horizontal flight will be studied in the course. Students will utilize problem-solving tools found within the four main energy systems: mechanical, fluid, electrical, and thermal. At various points throughout the course, students will employ teamwork skills, use critical and strategic thinking, design and develop rockets, test and analyze the designs as well as the flights, document the results, and understand telemetry. In the second semester, students will complete a design and development project with two success criteria: a rocket on the pad by a scheduled date, and a flight performance that sends a 1-pound research package to an altitude of 5,280 feet.

Anatomy and Physiology

Prerequisites: Biology and Chemistry
Grades: 11–12
Length: Two semesters
Credit: 1

This fast-paced course is designed to prepare students for continued studies in the medical and health professions. Using a college text, students will study all major body systems. Weekly labs will involve dissections and physiological activities.

Applied Engineering

Prerequisite: Physics or concurrent
Grades: 11–12
Length: Two semesters
Credit: 1

Students have the opportunity to employ the engineering design process through design projects such as renewable energy, robotics, aerospace studies, rocketry, and solar car. Students learn in-depth computer-aided drawing and design, plus systems engineering that include mechanical, electrical, and fluid systems. This class is a rigorous course of study that gives students who are pursuing a degree in engineering the skills and knowledge to be successful in college.
Biology

*Prerequisite: Algebra I or concurrent*
*Grade: 9*
*Length: Two semesters*
*Credit: 1*

Biology is the study of the many different aspects of living organisms. Topics of study include, but are not limited to, molecular and cellular biology, genetics, genetic engineering, evolution and creation, invertebrate and vertebrate anatomy and physiology, plants, microorganisms, ecology, and taxonomy. Emphasis is placed on comprehension and application of biological principles. Lab exercises are conducted every other week.

Biology Pre-AP

*Prerequisite: Algebra I or concurrent*
*See Page 3 for more information about Pre-AP/AP requirements.*
*Grade: 9*
*Length: Two semesters*
*Credit: 1*

This course is for those students desiring a more comprehensive and detailed study of the topics listed under the Biology course. This course also prepares students for the Biology AP course.

AP Biology

*Prerequisites: Biology and Chemistry*
*See Page 3 for more information about Pre-AP/AP requirements.*
*Grades: 11–12*
*Length: Two semesters*
*Credit: 1*

AP Biology is designed to be the equivalent of a freshman college biology course. The following topics are examined in detail: biochemistry, cellular processes, energy, photosynthesis, cellular respiration, heredity, modern genetics, creation and evolution, zoology and botany, and ecology. Lab exercises are included with each topic. A summer review assignment will be required. Students taking this course are required to take the AP Biology Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

Chemistry

*Prerequisite: Algebra I*
*Grade: 10*
*Length: Two semesters*
*Credit: 1*

Chemistry is an introductory study of the composition of and changes in matter. Topics include, but are not limited to, atomic theory, stoichiometry, thermodynamics, molecular structure, solutions, quantum theory, acids and bases, and introductory organic chemistry. Emphasis is placed on problem solving, application, and laboratory technique, as well as deriving and testing established chemical laws. Lab exercises are conducted every other week.
**Chemistry Pre-AP**

*Prerequisite: Algebra I*

See Page 3 for more information about Pre-AP/AP requirements.

*Grade: 10*

*Length: Two semesters*

*Credit: 1*

Chemistry Pre-AP is a more comprehensive look at topics described for chemistry with an emphasis on mathematical problem solving and laboratory technique.

**AP Chemistry – (Course not available for 2018–2019)**

*Prerequisites: Chemistry and Algebra I*

See Page 3 for more information about Pre-AP/AP requirements.

*Grades: 11–12*

*Length: Two semesters*

*Credit: 1*

AP Chemistry is designed by the College Board to be the equivalent of a second semester college chemistry course. The course includes an expanded study of the topics covered in first-year chemistry as well as several advanced topics, such as molecular orbital theory, chemical equilibria, kinetics, electrochemistry, thermodynamics, and spectroscopy. Emphasis is on a deeper understanding of the major ideas of chemistry through qualitative and quantitative analysis of concepts and data. On average, a lab will be held once a week. A summer review assignment is a vital part of the course. Students taking this course are required to take the AP Chemistry Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

**Earth and Space Science**

*Prerequisites: Biology and Chemistry*

*Grades: 11–12*

*Length: Two semesters*

*Credit: 1*

Earth and Space Science is the study of the physical universe. The course includes the study of four specific sub-sciences: astronomy, meteorology, geology, and oceanography. This course will strengthen critical thinking skills through projects, presentations, group work, and one field trip to a local military weather forecasting station. Earth and Space Science is not a math-intensive elective science but does include several labs during both semesters.

**Forensic Science**

*Prerequisites: Biology and Chemistry*

*Grades: 11–12*

*Length: Two semesters*

*Credit: 1*

Forensic Science is an interdisciplinary science derived from all areas of science including psychology, law, and sociology. This laboratory course is designed to introduce students to some of the basic fields of study that play roles in forensic science. Students study the history of forensic science and major forensic disciplines such as fingerprinting, entomology, anthropology, DNA analysis, serology, trace evidence, and pathology. The course further develops the students’ communication and critical thinking skills through the use of scientific method and evidence interpretation.
Physics

Prerequisites: Chemistry and Algebra II
Grades: 11–12
Length: Two semesters
Credit: 1

Physics covers the basics of mechanics, light, sound, magnetism, and electricity, yet does not rely as heavily on the mathematical equations as does AP Physics I. Lab work is included in the course. Hands-on learning and projects are incorporated as students learn how things work and discover the creativity and order present in the world God created.

AP Physics I

Prerequisites: Algebra II Pre-AP, Biology, and Chemistry
Corequisite: Pre-Calculus or higher math
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 11–12
Length: Two semesters
Credit: 1

AP Physics I is an algebra-based, introductory college-level physics course that explores topics such as the following: Newtonian mechanics; work, energy, and power; mechanical waves and sound; and introductory simple circuits. The course includes inquiry-based learning that helps students develop scientific critical thinking and reasoning skills. Students taking this course are required to take the AP Physics I Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

AP Physics C: Mechanics

Prerequisites: AP Physics I and instructor approval
Corequisites: Calculus or AP Calculus
See Page 3 for more information about Pre-AP/AP requirements.
Grade: 12
Length: Two semesters
Credit: 1

AP Physics C: Mechanics is equivalent to a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science, engineering, architecture, or mathematics. Students will gain a working knowledge of calculus by applying this mathematical tool in real-world applications of physics. This course provides instruction in the following six content areas of mechanics: kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Upon completion of this course, students should have a strong conceptual understanding of physics and well-developed skills for critical thinking and problem solving. Students taking this course are required to take the AP Physics C: Mechanics Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.
AP Physics C: Electricity and Magnetism

Prerequisites: AP Physics I and instructor approval  
Corequisite: Calculus or AP Calculus  
See Page 3 for more information about Pre-AP/AP requirements.  
Grade: 12  
Length: Two semesters  
Credit: 1

AP Physics C: Electricity and Magnetism is equivalent to a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science, engineering, architecture, or mathematics. Students will gain a working knowledge of calculus by applying this mathematical tool in real-world applications of physics. This course provides instruction in the following five content areas: electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Upon completion of this course, students should have a strong conceptual understanding of the physics of electricity and magnetism and well-developed skills for critical thinking and problem solving. Students taking this course are required to take the AP Physics C: Electricity and Magnetism Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

Solar Car – (Course not available for 2018–2019)

Prerequisite: None  
Grades: 9–12  
Length: Two semesters  
Credit: 1 (Elective credit only)

This course is recommended for students seeking an Engineering degree. Liberty Christian began racing a student–built solar car in 2007. Since that time, the program has grown and developed to the point that it is necessary to create a class of students who can focus on all of the different aspects of designing, building, driving, operating, and maintaining the solar car. This class will focus on the logistics, manufacturing, vendor sourcing, and strategic planning involved in the solar car program. Students will be given individual tasks as well as learn team building skills. Curriculum will include administrative details, as well as introduction to the engineering involved in creating a roadworthy solar car. 3D CAD programs will be introduced, and electronics projects will be required. Understanding and building batteries (lead acid and LiFePO4) will be necessary for the primary propulsion system. Students will be required to be involved in outside-of-class activities. Participation in the solar car class will not guarantee a spot on the summer racing trip.

STEM: Maker

Prerequisite: None  
Grades: 9–12  
Length: Two semesters  
Credit: 1 (Elective credit only)

This course is recommended for students seeking an Engineering degree. The Maker movement across America instills a sense of accomplishment because students must take responsibility for their own learning. Students will be expected to work diligently on projects of their own choosing. Supervision and guidance will be offered as needed. Curriculum will include electronics, cell phone repair and understanding, creating WiFi hotspots for individual use, basic programming, 3D printing and CAD software, culminating with working toward a HAM radio license. Students will be guided and directed to broaden their skills and understanding of science, technology, engineering, and math through project-based learning.
**Social Studies**

The Social Studies Department is dedicated to helping students become well-informed, intelligent citizens who see a culturally diverse world through the lens of Christianity. Courses offered are designed to help students develop reasoning and critical thinking skills, to understand God’s plan as it is revealed in history, and to respect the United States and the value of democracy. Coursework required in Upper School is built in four stages: how mankind uses the earth that was created for him, the history of man from Adam to the present, the history of the United States, and the government and economic system as it exists today. More advanced coursework is offered for students who wish to further their studies in this field in preparation for college and beyond.

**AP European History – (Course not available for 2018–2019)**

*Prerequisite: None*

*See Page 3 for more information about Pre-AP/AP requirements.*

*Grades: 11–12*

*Length: Spring semester only*

*Credit: .5*

This course will study European history since 1450. It will introduce students to cultural, economic, political, and social developments that played a fundamental role in shaping the world. In addition to providing a basic narrative of events and movements, this course will develop the students’ understanding of some of the principal themes in modern European history, enhance their ability to analyze historical evidence and historical interpretation, and expand on their ability to express historical understanding in writing. Summer assignments are vital to this course. Students taking this course are required to take the AP European History Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

**NEW! Human Geography Pre-AP**

*Prerequisite: History 8*

*See Page 3 for more information about Pre-AP/AP requirements.*

*Grade: 9*

*Length: Two semesters*

*Credit: 1*

Pre-AP Human Geography models AP Human Geography. It is an advanced course that prepares students for AP Social Studies courses in the future. It will introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the earth’s surface. Students will learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They will also learn about the methods and tools geographers use in their research. A summer assignment is required as part of this course. Students taking this course will have the option to take the AP Human Geography Exam per teacher invitation. If a student takes the AP Exam, the exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U. A summer reading assignment is required.
AP Human Geography

Prerequisites: **Students in 9th grade** must have maintained a minimum average of 90 percent in the previous year’s history course or 85 percent in the previous year’s history Pre-AP course and a minimum average of 90 percent in the previous year’s English course or 85 percent in the previous year’s English Pre-AP course. **Students in 10th–12th grades** must have maintained a minimum average of 90 percent in the previous year’s history course or a minimum average of 85 percent in the previous year’s history Pre-AP/AP course.

See Page 3 for more information about Pre-AP/AP requirements.

**Grades: 9–12**

**Length:** Two semesters

**Credit:** 1

AP Human Geography is an advanced, college-level course that will prepare students to take the Advanced Placement Human Geography Exam. It will introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the earth’s surface. Students will learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They will also learn about the methods and tools geographers use in their research. A summer assignment is required as part of this course. Students taking this course are required to take the AP Human Geography Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

Macroeconomics

**Prerequisite:** U.S. History

**Grade:** 12

**Length:** Fall or Spring semester

**Credit:** .5

AP Macroeconomics is an advanced, college-level course that prepares students to take the Advanced Placement Macroeconomics Exam. This course is intended to give students a thorough understanding of economics as it applies to the economy as a whole. Lessons include analysis of national income and its components, price determination, economic performance measures, inflation and unemployment, money and banking, stabilization policies, and the United States and world trade. The course examines economic aspects of fiscal and monetary policy making from a Christian perspective. The AP Macroeconomics course includes extensive reading accompanied by analytical writing and a group presentation.

AP Macroeconomics

**Prerequisite:** U.S. History

**Grade:** 12

**Length:** Fall or Spring semester

**Credit:** .5

AP Macroeconomics is an advanced, college-level course that prepares students to take the Advanced Placement Macroeconomics Exam. This course is intended to give students a thorough understanding of economics as it applies to the economy as a whole. Lessons include analysis of national income and its components, price determination, economic performance measures, inflation and unemployment, money and banking, stabilization policies, and the United States and world trade. The course examines economic aspects of fiscal and monetary policy making from a Christian perspective. The AP Macroeconomics course includes extensive reading accompanied by analytical writing and a group presentation. AP format testing is administered throughout the semester to prepare students to earn college credit through the AP Exam in Macroeconomics. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.
AP Microeconomics
Prerequisite: None
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 11–12
Length: Spring semester only
Credit: .5 (Elective credit only)

This course will give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within an economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. Students taking this course are required to take the AP Microeconomics Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

United States Government
Prerequisite: U.S. History
Grade: 12
Length: Fall or Spring semester
Credit: .5

This course includes the detailed study of the foundations of U.S. government, the Constitution, the three branches of government, and the political party system. The objective of this course is to prepare students for their role as active and knowledgeable participants in the democratic process. Because the U.S. has been blessed with economic, political, and religious freedom, Christians have the responsibility of protecting and preserving these freedoms. A thorough knowledge of how the U.S. government works is vital to fulfilling this responsibility.

AP United States Government and Politics
Prerequisite: U.S. History
See Page 3 for more information about Pre-AP/AP requirements.
Grade: 12
Length: Fall or Spring semester
Credit: .5

AP United States Government and Politics is an advanced, college-level course that will prepare students to take the Advanced Placement United States Government and Politics Exam. This course follows the curriculum requirements for the “AP United States Government and Politics Course Description” published by the College Board, along with LCS guidelines for a United States government survey course. This course gives students an analytical perspective on government and politics in the United States. It includes the study of American government institutions, political beliefs and behaviors, political parties, interest groups, mass media, public policy, and civil rights and liberties. It is a challenging course requiring extensive reading, critical analysis, and a knowledge of national and international events. Developing a Christian worldview that will enable students to be citizens who are knowledgeable, informed, and involved is the ultimate goal for the AP U.S. Government course. Summer reading is required. Students taking this course are required to take the AP United States Government and Politics Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.
United States History

Prerequisite: World History
Grade: 11
Length: Two semesters
Credit: 1

This course includes the study of people, events, and issues from the Reconstruction Period after the Civil War to the present. This survey includes the growth and development of the distinct and unique American culture as the U.S. grew into a world power. The chronicle of successes and failures of previous generations will serve as a guide for students in their own generational setting. This course also focuses on the religious topics of the Great Awakenings and the missionary and evangelistic expressions in U.S. history. Students will apply a biblical stance, aligned with God’s will, to United States history and their own lives.

AP United States History

Prerequisite: World History
See Page 3 for more information about Pre-AP/AP requirements.
Grade: 11
Length: Two semesters
Credit: 1

AP United States History is an advanced, college-level course that prepares students to take the Advanced Placement United States History Exam. This course is accelerated and takes a more targeted, detailed, and comprehensive survey of topics in United States history. It covers the American Civil War to the present and includes specific training in the document-based essay format on the AP History Exam, while stressing primary sources and students’ analytical abilities. Mastery of the material in this course serves as a firm foundation for upper level college courses. Summer reading is a vital part of the course. Students taking this course are required to take the AP United States History Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.

World Geography

Prerequisite: None
Grade: 9
Length: Two semesters
Credit: 1

World Geography is the study of all the countries of the world. Major geographical features, people groups, religions, and current events for each country will be covered. Map studies involving not only the nations of the world but the geographical, historical, and political situations that caused present boundaries will also be emphasized.

World History

Prerequisite: World Geography
Grade: 10
Length: Two semesters
Credit: 1

This course is a survey of history from creation to modern day, demonstrating that God is a constant force throughout history. Students will develop higher-level thinking skills to analyze historical and geographical contexts, and to think critically about the way forces and events in history have influenced the modern world. There will be one book read each semester to supplement the textbook and one major project each semester.
AP World History

Prerequisite: World Geography, World Geography Pre-AP, or AP Human Geography
See Page 3 for more information about Pre-AP/AP requirements.
Grade: 10
Length: Two semesters
Credit: 1

AP World History is an advanced, college-level course that prepares students for taking the World History Advanced Placement Exam. This course has a chronological framework beginning with the foundations of history and continuing to the present. Truly global in nature, the course includes studies of major political, social, economic, and artistic movements found in societies in Asia, Europe, Africa, and North and South America. Extensive reading and composition prepare students for the rigor of the Advanced Placement Exam. A summer assignment is required as part of this course. Students taking this course are required to take the AP World History Exam. The exam fee is payable by credit card using the AP Exam Payment link available on the Liberty website under Advising U.
Middle School Course Catalog

Course Descriptions for Grades 6–8

**NEW and UPDATED Middle School Offerings**

The following courses have been added or updated to the Middle School (MS) Catalog for 2018–2019:

- **Beginning German A** – See Page 53. (formerly Beginning German)
- **Beginning German B** – See Page 53.
- **Beginning Mandarin A** – See Page 53. (formerly Beginning Mandarin)
- **Beginning Mandarin B** – See Page 54.
- **Beginning Spanish A** – See Page 54. (formerly Beginning Spanish)
- **Beginning Spanish B** – See Page 54.
- **Creative Coding A** – See Page 48.
- **Creative Coding B** – See Page 48.
- **Broadcast Video** – See Page 48.


**Bible**

In keeping with Liberty’s Christian emphasis, students in grades 6–8 are required to be enrolled in a Bible class each semester.

**Bible 6**

*Prerequisite: None*

*Grade: 6*

Through stories of the creation and the fall, students will come to understand why Christ came – to redeem and restore them to their Heavenly Father. Students will travel from Genesis to Revelation, gaining personal insight about their Savior redeeming them for all eternity.

**Bible 7**

*Prerequisite: None*

*Grade: 7*

This course will enable students to understand the background, history, content, and application of the New Testament, as well as grasp the aspects of God’s character and power through the life and ministry of Jesus Christ.

**Bible 8**

*Prerequisite: None*

*Grade: 8*

In this course, students will navigate through the Old Testament, exploring how the entire text interweaves Jesus and the gospel. Students will examine the overarching narrative – and characters in the narrative – that display God’s redemptive story of humankind from the beginning of creation to the prophecies of the coming Messiah.
Career and Technology

Digital Life Skills
Prerequisite: None
Grade: 6

The Digital Life Skills course is a required course for all 6th grade students. Students will gain the basic technology skills necessary to help launch them into a successful career in the future. In this learning environment, the course will teach students how to set up responsible practices in technology for organization and efficiency. Students will learn the importance of digital citizenship in the world of technology and in their lives. In the real world, digital citizens connect and collaborate in ways that need guidance for safe use in the classroom and in life.

Creative Coding A
Prerequisite: None
Grades: 6–8

This fun and creative computer science and programming class will involve students in the excitement of becoming creators of technology and not just consumers of it, while they use text and block-based programming skills to develop scripts, animations, digital stories, videogames, and simple cell phone apps. The course will include basic programming/coding instruction while teaching the mastery of variables, symbols, data structures, syntax, algorithms, and tools. Languages used throughout the course will include Python, Ruby, and Swift, in addition to HTML/CSS, Scratch, and Hopscotch visual block coding.

Creative Coding B
Prerequisite: Coding A
Grades: 7–8

Students will further explore programming skills introduced in Coding I, will dive deeper into text-based coding in Ruby Rails, Python, and Swift, and will experience hands-on projects, such as a working cell phone app.

Broadcast Video
Prerequisite: None
Grades: 6–8

This class will introduce broadcasting and journalism to students through creating, filming, and producing a weekly news show. This class will teach basic skills in all areas of broadcasting. Students will explore each part of the show process, from on-air talent to behind-the-scenes filming and editing. Students will work together to complete their weekly newscast responsibilities to produce “The Warrior News.”
**English**

**English 6**

*Prerequisite: None  
Grade: 6*

This class is designed to challenge students to comprehend, analyze, appreciate, and enjoy a variety of texts, as well as develop critical thinking skills through creative expression. In an interactive writing workshop, students will learn the following types of writing: narrative, informative, and argument. Heavy emphasis will be placed on developing students' critical thinking skills and communicating their findings. Students will be introduced to various forms of literature and writing genres. Summer reading is required.

**English 6 Pre-AP**

*Prerequisite: None  
See Page 3 for more information about Pre-AP/AP requirements.  
Grade: 6*

This course is designed to challenge students to comprehend, analyze, appreciate, and enjoy a variety of texts, as well as develop critical thinking skills through creative written expression. In an interactive writing workshop, students will learn the following types of writing: narrative, informative, and argument. Heavy emphasis will be placed on developing students' critical thinking skills and communicating their findings. Students will be introduced to various forms of literature and writing genres. The Pre-AP English course focuses on more complex text choices and a more in-depth study of those works. Students will also learn more about literary analysis and rhetorical analysis. Summer reading is required.

**English 7**

*Prerequisite: English 6  
Grade: 7*

Through a reading and writing workshop, this course focuses on students' development of deeper thinking skills. Students are challenged to analyze, evaluate, and create, all the while interacting with various genres of literature and writing. Critical thinking, perceptive reading, honest discussion, oral presentations, and powerful writing are the foundations of this course, based on the taxonomy of Socratic reasoning. Summer reading is required.

**English 7 Pre-AP**

*Prerequisite: English 6  
See Page 3 for more information about Pre-AP/AP requirements.  
Grade: 7*

Through a reading and writing workshop, this course focuses on students' development of deeper thinking skills. Students are challenged to analyze, evaluate, and create, all the while interacting with various genres of literature and writing. Critical thinking, perceptive reading, honest discussion, oral presentations, and powerful writing are the foundations of this course, based on the taxonomy of Socratic reasoning. The Pre-AP English course focuses on more complex text choices. Summer reading is required.
English 8

*Prerequisite: English 7
Grade: 8

Eighth grade English focuses on cultivating and honing writing skills by mastering the fundamentals of vocabulary, grammar, and critical reading abilities. Students will increase their ability to express ideas clearly through written and oral presentation, and will learn to critically analyze various literary texts, as well as gain an overall understanding of language components and their functions. Through a workshop model, students will deepen their ability to independently write, analyze, and evaluate texts. Students will continue to develop critical thinking skills through their reading of various texts including novels, short stories, poetry, podcasts, and nonfiction texts. Summer reading is required.

English 8 Pre-AP

*Prerequisite: English 7

*See Page 3 for more information about Pre-AP/AP requirements.

*Grade: 8

Eighth grade English will focus on cultivating and honing writing skills by mastering the fundamentals of vocabulary, grammar, and critical reading abilities. Students will increase their ability to express ideas clearly through written and oral presentation, and will learn to critically analyze various literary texts, as well as gain an overall understanding of language components and their functions. Through a workshop model, students will deepen their ability to independently write, analyze, and evaluate texts. Students will continue to develop critical thinking skills through their reading of various texts including novels, short stories, poetry, podcasts, and nonfiction texts. The Pre-AP English course focuses on more complex text choices and a more independent in-depth study of those works. Summer reading is required.
**Fine Arts Electives**

**Art for Middle School**
*Prerequisite: None*
*Grades: 6–7*

This course is an introduction to mixed media. Basic drawing skills are emphasized as students begin to "see" and interpret two-dimensional forms. Beginning painting skills are also introduced, including acrylic and watercolor. Students will execute projects in the classroom using a variety of media, such as watercolor pencil, scratch art, colored pencil, oil pastel, and clay. This class may also be modified to challenge students to reach their desired level of expertise.

**Art I**
*Prerequisite: None*
*Grade: 8*
*Credit: 1 (Fine Arts credit for Upper School included on the student’s transcript)*

Art I is a prerequisite for all Upper School Art courses. This course emphasizes basic elements of art (line, shape/form, value, space, and color) and principles of design (proportion, repetition, balance, variety, and unity) within the disciplines of drawing, painting, printmaking, pottery, and sculpture. A wide variety of media is explored including graphite, pastels, colored pencils, watercolor, acrylic, collage, clay, and mixed media. This course is designed to enhance students' creative and technical abilities in art. Daily assignments and longer projects are assigned to enhance students' proficiency of self-expression. Students will be introduced to art history through projects and presentations.

**Band**
*Prerequisite: None*
*Grades: 6–8*

The fundamentals necessary to perform well on a musical instrument are emphasized, such as tone production, technique, tonguing styles, balance of the ensemble, dynamics, starting and releasing together, counting rhythms, and developing steady time. As these fundamentals are developed, concentration is given to performing more music in different styles with varied time signatures. Students work to develop more range on their instruments and play at faster tempos. The goal of this program is to provide each student with a Christ-centered music education based upon sound music theory and study. Students work individually, in small ensembles, and as a large group to prepare for performances and area competitions.

**Intro to Theatre**
*Prerequisite: None*
*Grades: 6–8*

This course serves as an introduction to theatre for all Middle School students. Students will begin learning the basics of theatre and start to shape skills needed for performing. This class is not a requirement for taking Spotlight in 7th or 8th grade, but it is recommended. This class will help equip students with the foundations expected for their future in the department. There will also be an introduction to the Private Schools Interscholastic Association (PSIA) speech tournament in the spring. This course is not a production class, but students will perform in a small end-of-the-year showcase.
Concert Choir

*Prerequisite: None

*Grades: 6–8

Concert Choir is open to anyone in Middle School who likes to sing. Students will explore a broad range of music from classical to pop. This course is an introduction to vocal music and production, sight-singing, and music theory. There will be a fall concert, a spring showcase, and the potential to sing at other venues, such as Holiday in the Park at Six Flags, school chapels, and the National Anthem at sporting events. No prior choral experience is necessary, just a great attitude and a willingness to work hard.

ShowStoppers

*Prerequisite: Audition required

*Grades: 6–8

ShowStoppers is made up of 6th, 7th, and 8th grade actors and singers who desire to develop their skills vocally and theatrically. Acceptance into the class is based on an audition with teachers. This class is designed to teach, perform, and observe higher levels of singing, theatre, and musical art. Fundamentals in singing and musical theatre acting will be reviewed and expounded. The goal of this class is to acclimate students to a mixed age cast/choir and encourage them to take on leadership responsibilities that will prepare them for Upper School choir, theatre, and more. Because ShowStoppers is a performance course, students will display their skills, talents, and gifts in a fall concert and a Broadway musical in the spring.

Spotlight

*Prerequisite: Theatre experience and audition

*Grades: 7–8

This advanced level course is for students in 7th and 8th grades who have discovered their passion for theatre and desire to hone their skills in preparation for Encore at the Upper School level. Members of the class are required to perform in an annual Christmas presentation and compete in area contests. Class time is spent rehearsing for performances and studying various acting styles and theatre techniques.
FOREIGN LANGUAGE

**Beginning German A**

*Prerequisites: None*
*Grade: 8*
*Note: No Upper School credit for Middle School foreign language classes*

Beginning German is a fun, interactive course designed to introduce students to the German language and culture. Emphasis will be on the acquisition of four skills: listening, speaking, reading, and limited writing. The primary goal is to give students the ability to carry on a simple conversation in German. Students will also learn how to say a basic prayer in German, share basic information about German songs and singers, and read and discuss simple novels in German. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). To demonstrate language ability and for placement in Upper School foreign language courses, students will take the Assessment of Performance toward Proficiency in Languages (AAPPL) interpersonal speaking test at the end of 8th grade.

**Beginning German B**

*Prerequisites: Beginning German A (formerly Beginning German)*
*Grade: 8*
*Note: No Upper School credit for Middle School foreign language classes*

Beginning German B is a continuation of the introduction of German language and Culture. The course is designed to be a fun, interactive course that will re-enforce the basics from the A course and will introduce students to additional basic and intermediate vocabulary and grammar. Emphasis will be on the acquisition of four skills: listening, speaking, reading, and limited writing. The primary goal is to give students the ability to carry on a simple conversation in German. Students will also learn how to say a basic prayer in German, share basic information about German songs and singers, and read and discuss simple novels in German. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). To demonstrate language ability and for placement in Upper School foreign language courses, students will take the Assessment of Performance toward Proficiency in Languages (AAPPL) interpersonal speaking test at the end of 8th grade.

**Beginning Mandarin A**

*Prerequisites: None*
*Grade: 8*
*Note: No Upper School credit for Middle School foreign language classes*

This introductory course in Chinese is designed for students who have none or little prior experience in the language. The course begins with an overview of the Chinese language and moves on to the basic skills of listening, speaking, reading, and writing. The primary goal for this introductory course is to build accuracy for the syllabic structure and pronunciation of modern standard Chinese. Students will also learn how to say a basic prayer in Chinese, share basic information, and learn Christian worship songs in Chinese. Students are encouraged to take this course, as it could have a huge impact on their future. “Tomorrow's leaders must be able to compete, work and thrive in a globalized world with diverse, multilingual consumers and economies in which China and the U.S. will continue to be major players” (U.S. News – October 25, 2016). Note: Students considering taking Mandarin need to be aware that the Foreign Service Institute ranks Mandarin as a Category V language, the highest ranking in terms of difficulty.
Beginning Mandarin B

Prerequisites: Beginning Mandarin A (formerly Beginning Mandarin)
Grades: 7–8
Note: No Upper School credit for Middle School foreign language classes

This course is a continuation of the study of the Chinese language and culture. Throughout the course, students will develop their listening, speaking, reading, and writing skills, with emphasis on oral communication. Students will expand upon a basic prayer in Chinese, share basic information, and learn Chinese songs as a fun way to acquire the Chinese language. Each unit in the course covers a specific theme that includes new vocabulary and language notes, with a guided practice in communicative context. Students are encouraged to take this course, as it could have a huge impact on their future. “Tomorrow’s leaders must be able to compete, work and thrive in a globalized world with diverse, multilingual consumers and economies in which China and the U.S. will continue to be major players” (U.S. News – October 25, 2016). Note: Students considering taking Mandarin need to be aware that the Foreign Service Institute ranks Mandarin as a Category V language, the highest ranking in terms of difficulty.

Beginning Spanish A

Prerequisite: None
Grades: 7–8
Note: No Upper School credit for Middle School foreign language classes

Spanish A is a fun, interactive course designed to introduce students to the Spanish language and culture. Emphasis will be on the acquisition of four skills: listening, speaking, reading, and limited writing. The primary goal is to give students the ability to carry on a simple conversation in Spanish and to share information about themselves, like describing their family, what they like to do, or what they typically eat. Students will also learn how to say a basic prayer in Spanish, share basic information about Latino songs and singers, and read and discuss simple novels in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). Students must have an overall class average of an 80 percent to proceed to the next level.

Beginning Spanish B

Prerequisite: Spanish A (formerly Beginning Spanish)
Grades: 7–8
Note: No Upper School credit for Middle School foreign language classes

Spanish B is a fun, interactive course designed to continue exposing students to the Spanish language and culture. Emphasis will be on the acquisition of four skills: listening, speaking, reading, and limited writing. The primary goal is to give the students the ability to ask and answer questions in Spanish, with a focus on travel in Spanish-speaking countries. Students will also learn how to say a prayer in Spanish, share information about Latino songs and singers, and read and discuss novels in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). Students must have an overall class average of 80 percent to proceed to the next level (Spanish I). Students who successfully complete both A and B with a class average of 85 in each class will be prepared to begin Upper School with Spanish II. Those students who have a class average of 90 in both A and B will be prepared to begin Upper School with Pre-AP Spanish II.
Mathematics

Mathematics

Prerequisite: None
Grade: 6

In this course, students will learn traditional mathematics, including computation and estimation of whole numbers, fractions, decimals, and percent, as well as the practical application of these skills. Geometric concepts and formulas are also taught, as are algebraic equations and an introduction to integers. This class lays a solid foundation for students entering into Pre-Algebra in the 7th grade.

Mathematics Pre-AP

Prerequisite: None
Grade: 6

See Page 3 for more information about Pre-AP/AP requirements.

In this course, students learn traditional mathematics. The Pre-AP course is designed for students who excel in all areas of math. Skills covered in this course are the computation and estimation of whole numbers, fractions, decimals, and percent, as well as the practical application of these skills. Geometric concepts and formulas are also taught, as are algebraic equations and an introduction to integers. This class lays a solid foundation for students taking Pre-Algebra in 7th grade. When compared to the standard 6th grade mathematics course, the Pre-AP course moves at a faster pace, covers many topics in greater depth, and includes some additional topics.

Pre-Algebra

Prerequisite: Mathematics
Grades: 7–8

This course is designed to help ease the transition from mathematics to algebra. The class includes a strong review, the building of mathematical skills, the use of variables, algebraic expressions (decimals, integers, and rational numbers), and techniques for solving various equations. The next course in sequence is Algebra I.

Pre-Algebra Pre-AP

Prerequisite: Mathematics
See Page 3 for more information about Pre-AP/AP requirements.
Grades: 7–8

This course is designed to help ease the transition from mathematics to algebra for students who excel in math. The class includes a strong review, the building of mathematical skills, the use of variables, algebraic expressions (decimals, integers, and rational numbers), and techniques for solving various equations. When compared to the standard Pre-Algebra course, the Pre-AP course moves at a faster pace, covers many topics in greater depth, and includes some additional topics. The next course in sequence is Algebra I Pre-AP.
Algebra I

Prerequisite: Pre-Algebra
Grade: 8
Credit: 1 (Math credit for Upper School that will be included on the student’s transcript and in GPA calculations)

This course is the first of a two-year study of algebra designed primarily for 8th grade students. Algebra I emphasizes rules, symbols, and the laws of arithmetic as applied to algebraic structure. Students obtain analytical and critical thinking skills that will be the basis for future math classes.

Algebra I Pre-AP

Prerequisite: Pre-Algebra
See Page 3 for more information about Pre-AP/AP requirements.
Grade: 8
Credit: 1 (Math credit for Upper School included on the student’s transcript and in GPA calculations)

Algebra I is the first year of a two-year study of algebra. The Pre-AP course is designed for students who excel in math. This course emphasizes rules, symbols, and the laws of arithmetic as applied to algebraic structure. In Algebra I, students obtain analytical and critical thinking skills that will be the basis for future math classes, with an emphasis on problem solving. When compared to the standard Algebra I course, the Pre-AP course moves at a faster pace, covers many topics in greater depth, and includes some additional topics.
Physical Education

Athletics

Prerequisite: None
Grades: 6–8

Students who enroll in athletics are doing so with the intent of competing for a roster spot on one of the Middle School athletic teams. Sports available for 6th, 7th, and 8th grade boys include football, basketball, track and field, wrestling, swimming, soccer, tennis, and cross country. Sports available for 6th, 7th, and 8th grade girls include volleyball, swimming, soccer, tennis, basketball, track and field, and cross country. Students enrolled in athletics are required to stay in athletics all year.

Physical Education

Prerequisite: None
Grades: 6–8

The physical education course provides an enjoyable experience in physical activities that help all students develop the knowledge, attitude, emotional and behavioral skills, and confidence needed to adopt and maintain physically active lifestyles.

Spirit Team

Prerequisite: None
Grades: 7–8

The Middle School Spirit Team for girls teaches cheer and dance routines that increases memory, coordination, and teamwork skills. There are no tryouts for the Spirit Team. Participating in the Spirit Team will not prevent students from trying out for other athletic team sports, and it is not a requirement for doing so. Girls participating in the Spirit Team are required to perform at designated LCS games and other events outside of regular school hours. The Spirit Team will perform at several Middle School pep rallies throughout the year. Parents should be aware that important parent meetings take place throughout the year, and there is an extra cost of $350 to cover shirts, uniforms, and miscellaneous fees.
Science

Science

Prerequisite: None
Grade: 6

Science for 6th grade is a hands-on applied science course that includes lecture and lab. The course encourages critical and analytical thinking, while fulfilling the Genesis command to subdue the earth and exercise dominion over it with compassion and stewardship. The curriculum encompasses two sections – life science and physical science. Life science is a study of God's creation of living things. This section of the course focuses on the importance of plants and animals as they pertain to human life on earth. Physical science is a study of inanimate natural objects such as astronomy, chemistry, physics, and earth science. Students will acquire an understanding of the earth's formation and the forces that act upon it, while realizing that all things were put in motion as stated in Genesis 1:1. Participation in the Liberty Science Fair is encouraged but optional.

Science Pre-AP

Prerequisite: None
See Page 3 for more information about Pre-AP/AP requirements.
Grade: 6

Pre-AP Science for 6th grade is a rigorous hands-on applied science course that encourages critical and analytical thinking. Throughout the year, students will collect and analyze data through structured labs and by using and creating models. Pre-AP labs will be more student-led, with pre-labs and post-labs required. The curriculum encompasses two sections – life science and physical science. Life science is a study of God’s creation of living things. This section of the course focuses on the importance of plants and animals as they pertain to human life on earth. Physical science is a study of inanimate natural objects such as astronomy, chemistry, physics, and earth science. Students will acquire an understanding of the earth's formation and the forces that act upon it, while realizing that all things were put in motion as stated in Genesis 1:1. Participation in the Liberty Science Fair is mandatory, including all fairs to which the student may advance.

Life Science

Prerequisite: Science
Grade: 7

Life Science covers the observations, predictions, and conclusions about the living things God created. The content of this course will include cytology (the study of cells) and genetics, creation and evolution, taxonomy, and an emphasis on the scientific method. These topics will be studied through a variety of methods including labs, hands-on and problem-solving activities, technology, and class discussion. The primary objectives of Life Science are for students to gain a deeper understanding of God's character and power through all He has created. A focus will be placed on increasing student confidence in independent learning as they make practical decisions in their everyday lives. Participation in the Liberty Science Fair is encouraged but optional.
Life Science Pre-AP

*Prerequisite: Science*

*See Page 3 for more information about Pre-AP/AP requirements.*

*Grade: 7*

Pre-AP Life Science covers at a faster pace the observations, predictions, and conclusions about the living things God created. The content of this course includes cytology (the study of cells) and genetics, creation and evolution, taxonomy, and the scientific method. These topics will be studied through a variety of approaches including labs, hands-on problem-solving activities, technology, and class discussion. The primary objectives of Life Science are for students to gain a deeper understanding of God’s character and power through all He has created, and further develop reasoning, critical thinking, and independent learning skills. A focus will be placed on increasing student confidence in independent learning as they make practical decisions in their everyday lives. Participation in the Liberty Science Fair is mandatory, as well as all fairs to which the student may advance.

STEM

*Prerequisite: None*

*Grades: 6–8*

STEM is the acronym for Science, Technology, Engineering, and Mathematics. This elective course is designed to introduce technology and scientific principles to a new generation of engineers. During the school year, students will study remote control forms of transportation and robotics. Students will build several robots throughout the year, culminating in competitions in the spring. The robot portion of class includes construction techniques and basic robotic programming. The class will study alternative energy sources and the physics behind new technologies. The primary goal of this course is to prepare students for Upper School chemistry, physics, and engineering classes. Science Olympiad is an extracurricular competition. Participation is highly encouraged in this class.

Science of Physical Creation

*Prerequisite: Life Science*

*Grade: 8*

This course investigates God’s physical design of the world through inquiry-based learning. Interaction in physical science is based on the principle that all students can reason like a scientist by thinking and developing ideas through the collection of evidence. The basis of this course involves observing, thinking, discussing, investigating, and practicing. The content focuses on the scientific method, conservation of matter, chemistry, and the interactions of energy and forces that are present in everyday life. Standards are learned through a combination of 70 percent guided inquiry and 30 percent direct instruction. In guided inquiry activities, students perform experiments and construct many physical science concepts based on evidence they collect in lab during experiments. Participation in the Liberty Science Fair is encouraged but optional.
Science of Physical Creation Pre-AP

*Prerequisite: Life Science*

*See Page 3 for more information about Pre-AP/AP requirements.*

*Grade: 8*

This course moves at an accelerated pace and involves more discussion, writing, and presentations. There will be more critical and analytical thinking involved, with questioning and reflecting on key ideas. This course studies God’s design of the world. Interaction in physical science is based on the principle that all students can reason like a scientist by thinking and developing ideas through the collection of evidence. The basis of this course involves observing, thinking, discussing, investigating, and practicing. The content focuses on the scientific method, conservation of matter, chemistry, and the interactions of energy and forces that are present in everyday life. Standards are learned through a combination of 70 percent guided inquiry and 30 percent direct instruction. In guided-inquiry activities, students perform experiments and construct many physical science concepts based on evidence they collect in lab during experiments. Participation in the Liberty Science Fair is mandatory, as well as all fairs to which students may advance.
Social Studies

**New World History and Geography**

*Prerequisite: None |
*Grade: 6 |

This history course is designed to impart students with the map skills, critical thinking skills, and the confidence needed for secondary level requirements. Students will learn to interpret maps while exploring cultures and histories of countries in the Western Hemisphere and Europe. Geography and map skills are an integral part of this course. Students will investigate and understand the historical account and foundational beliefs that have made the United States the leader of democracy, and how belief in God and the Bible are fundamental to American government and its law. Class time will include lectures, Socratic seminars, PowerPoint presentations, class discussions, video excerpts, reading assignments, reenactments, small projects, games, and group activities.

**New World History and Geography Pre-AP**

*Prerequisite: None |
*See Page 3 for more information about Pre-AP/AP requirements. |
*Grade: 6 |

This history course is designed to impart students with the map skills, critical thinking skills, and the confidence needed for secondary level requirements including further Pre-AP coursework. Students will learn to interpret maps while exploring cultures and histories of countries in the Western Hemisphere and Europe. Geography and map skills are an integral part of this course. Students will investigate and understand the historical account and foundational beliefs that have made the United States the leader of democracy, and how belief in God and the Bible are fundamental to American government and its law. Class time will include lectures, Socratic seminars, PowerPoint presentations, class discussions, video excerpts, reading assignments, reenactments, small projects, games, and group activities. Students will also focus on current events. According to the College Board Advanced Placement Program, Pre-AP curriculum is one that is different in pace, depth, breadth, and/or complexity. All students are taught in accordance with Liberty’s academic standards for 6th grade. Pre-AP is intended to develop and build on those skills necessary to be successful in Upper School Pre-AP and AP courses.

**Classical Languages and Cultures**

*Prerequisite: New World History and Geography |
*Grade: 7 |

This class is an introduction to Western civilization and the cultures, histories, and languages of the ancient Greeks and Romans. One objective of this course is to provide a solid foundation for the understanding of classic cultures, from which springs the basis of Western civilization, democracy, the arts, classical architecture, and the origins of Christianity. An equally important objective is to understand the Greek and Latin languages, which provide the roots of more than 80 percent of the words used in literate English. The course begins with the study of Greek language and culture. Latin language and Roman culture will begin in the second semester. Throughout the entire year, students will study the roots of many words in the English language.
Classical Languages and Cultures Pre-AP

Prerequisite: New World History and Geography
See Page 3 for more information about Pre-AP/AP requirements.
Grade: 7

In Pre-AP Classics, students will be challenged to achieve the primary objective of gaining a greater appreciation of the classic cultures, from which springs the basis of Western civilization, democracy, the arts, and the origins of Christianity. This course is accelerated and requires additional reading, writing, analysis, translation, and study beyond a basic understanding. A second objective is to understand the Greek and Latin languages, which provide the roots of more than 80 percent of the words used in literate English.

United States History

Prerequisite: Classical Languages and Cultures
Grade: 8

United States History is a comprehensive study of the foundation of America and the struggle to build the nation. The class begins with the early explorations of the Spanish conquistadors and ends with the Civil War. Students will develop an appreciation for the first Americans and the price they paid to establish the United States today. Influential characters who played important roles in the pivotal events that shaped American history will be examined. The text highlights the Christian background of America's forefathers who were responsible for shaping the democratic government that still exists today. The course will include a brief study of European and Middle Eastern geography, and a more comprehensive look at North American geography throughout each unit.

United States History Pre-AP

Prerequisite: Classical Languages and Cultures
See Page 3 for more information about Pre-AP/AP requirements.
Grade: 8

This course is designed to give students an understanding of the establishment of the United States. Students will develop an appreciation of America's history as they study the cultural, economic, political, social, and religious development of the United States from its beginning through the Reconstruction period following the Civil War. This course is accelerated and requires supplemental, analytical reading and extensive writing. This course prepares students for AP classes and other academically challenging courses in Upper School.