

HIGH SCHOOL 2021-2022 COURSE GUIDE



Faith. Service. Excellence

Lexington Christian Academy
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LCA HIGH SCHOOL COURSE GUIDE 2021-2022

Course Guide Purpose

The purpose of this guide is to familiarize students and parents with the curricular offerings of LCA high school. All of these courses, however, are not guaranteed to become part of the master schedule each year. LCA offers many courses, all of which seek to provide students with knowledge, understanding, and an integration of God's truth in all subject areas.

Graduation Requirements

In order to graduate from Lexington Christian Academy's High School, a student must earn **25.5 credits**. LCA's graduation requirements are aligned with the Kentucky Pre-College Curriculum (PCC) guidelines. Specific requirements are as follows:

In PDF document, click the Subject Area title to be taken to that section of course descriptions.

SUBJECT AREA	LCA REQUIREMENT FOR GRADUATION	TOTAL 25.5 CREDITS
Bible	4 credits ¹	
English	4 credits (English I, II, III, and IV)	
Communication	0.5 credit of Public Speaking	
Math	4 credits ² (must include minimum of Algebra I, Geometry, Algebra II and 1 additional credit)	
Science	3 credits (Physical Science ³ , Biology, and Chemistry) OR (Biology, Chemistry and Science Elective)	
Social Studies	3 credits (World Civilizations, US History, 0.5 credit Government, 0.5 credit Economics)	
Health	0.5 credit (1 semester)	
Physical Education	0.5 credit (1 semester)	
Fine Arts/Humanities	1 credit ² (art , music , digital art/ tech classes) ⁴	
World Languages	2 credits ² (both years must be same language; if level I credit is earned in 8 th grade, levels II and III must be completed in HS)	
Electives	3 credits	

ADDITIONAL NOTES:

¹ Students who transfer after grade nine will not be required to make up the missing Bible credits.

² Beginning with the class of 2024, students will be required to take four credits of Math, two credits of World Language and one credit of Fine Arts/Humanities while enrolled in High School, even if they have earned HS credit in 8th grade.

³ Beginning with the class of 2024, the high school science track will begin with Biology/Honors Biology in 9th grade. Physical Science will be the standard 8th grade science course and will not earn high school credit.

⁴ Courses that fulfill the **Fine Arts/Humanities requirement** include:

- **Fine Art:** 2D Art I-IV, 3-D Art I-IV, Printmaking, Advanced Studio Art, AP Art History, AP Studio Art
- **Music:** Band, Chorus, Orchestra, Piano, Guitar, AP Music Theory
- **Digital Arts:** Digital Photo I, Digital Photo II, Graphic Design Software, Video Editing and Special Effects

GRADING

GRADE	RANGE	COLLEGE PREP (CP)	HONORS	ADVANCED PLACEMENT (AP) and DUAL CREDIT (DC)
A	90 - 100	4.0	4.5	5.0
B	80 - 89	3.0	3.5	4.0
C	70 - 79	2.0	2.5	3.0
D	65 - 69	1.0	1.5	2.0
F	64 and below	0	0	0
TI	Temporary Incomplete (<i>placeholder grade on report card pending completion of work or assessments</i>)			

Class Rank: LCA does not rank students except for Valedictorian and Salutatorian for graduation. The weighted cumulative GPA is used for determining Valedictorian and Salutatorian, as well as graduation honors.

TYPES OF COURSES

College Prep Courses: Most of LCA's courses are college prep and are weighted on a 4.0 scale.

Advanced Placement Courses: AP courses are weighted with a +1.0 quality point in the weighed cumulative GPA than (i.e., A=5, B=4, C=3, D=2, F=0). In the unweighted cumulative GPA, an AP class has a regular value (i.e. A= 4, B=3, C=2, D=1, and F= 0). AP courses have required prerequisites. Please refer to the specific course description for details.

Dual Credit: Dual Credit courses earn both high school credit toward graduation from LCA and college credit which may be transferred to the student's chosen college upon high school graduation. Dual Credit courses are weighted on the same scale as Advanced Placement course and have required prerequisites. Students must apply for admission to the partner college/university through which the Dual Credit course is taught. Students who elect to enroll in Dual Credit courses, either in fulfillment of LCA graduation requirements or as electives, must also be enrolled in five (5) on-campus LCA courses each semester.

LCA offers select Dual Credit courses on-campus in partnership with area colleges and universities, but students may also request approval to independently enroll in a Dual Credit course through a program of their choice. Students should not enroll in the course until the request has been reviewed and the course and program are approved.

Tuition for dual credit courses is charged by and payable directly to the providing college/university and is the responsibility of the student's family, in addition to LCA tuition. LCA does not offer a prorated tuition discount to subsidize Dual Credit enrollment. The Kentucky Higher Education Assistance Authority (KHEAA) offers a non-need-, non-merit-based Dual Credit Scholarship. Students are responsible for applying for the DCS through their myKHEAA account. The DCS covers up to two (2) dual credit courses (6 college credit hours/1 HS credit) at a maximum of \$72/college credit hour. Families are responsible for any dual credit tuition balance remaining after the DCS is applied.

Honors Courses: Honors courses have required prerequisites. Please refer to the specific course description for details. Honors courses are weighted on a 4.5 scale.

Prerequisite Courses and Standards: A prerequisite is a condition that must be met before a student may enroll in a certain course. Prerequisites are listed at the top of each course description. Please check these requirements carefully before making selections. Prerequisites reflect the desire of each department to ensure the success of students in selected courses.

Corequisite Courses: A course listed as a corequisite must be taken prior to or at the same time as a certain course.

SCHEDULE CHANGE REQUESTS AND PROCESS

Schedule Changes

Schedule changes will only be considered for legitimate academic reasons. In order to change a schedule, students need to pick up a Schedule Change Form in the High School Office. This form will require parent signature, teacher signature, and counselor signature. During the first five days of the semester, a student may drop a class and enter a class without consequence. Beginning with the 6th day the student may drop a class, but will receive a "W" (Withdrawal) notation on their transcript.

WORK RELEASE

Some seniors may be eligible for a work release opportunity. Work release allows students to go to work on his/her authorized days of employment. In order to be considered for participation in the work release program, students must be on track for graduation. All students will be required to sign up for a 7-period day, until their work release form is signed and approved by the student's employer and assistant principal. Work Release forms are available in the High School Office and as a PDF download in the Online Course Requests module, in FACTS Family Resources and on the LCA website under High School Parent Resources.

NCAA ELIGIBILITY

If you plan to enroll in any Division I or Division II college or university, please read this information carefully.

Students' NCAA initial eligibility will be evaluated under the 16 core-courses described in the section. Potential college athletes must meet the core course requirements below in order to be eligible for the NCAA. Athletes also must have an NCAA core course GPA of 2.3 or higher (2.2 for Division II) and score at the NCAA specified levels on either the ACT or SAT. Additionally, check out NCAA's Eligibility Center for more information before you schedule your courses - <http://www.ncaa.org/student-athletes/future/eligibility-center>

DIVISION I – 16 CORE COURSES

4 years of English
3 years of Math (Algebra I or higher)
2 years of Natural/Physical Science including one year of lab science
1 year of additional English, Mathematics or Natural/Physical Science
2 years of Social Studies
4 years of additional coursework (from any area above, World Languages or non-doctrinal religion/philosophy)
*Total of 10 Core Courses, including 7 English, Math, or Natural/Physical Science, must be completed before your seventh semester

DIVISION II – 16 CORE COURSES

3 years of English
2 years of Math (Algebra I or higher)
2 years of Natural/Physical Science including one year of lab science
3 years of additional English, Mathematics, or Natural/Physical Science
2 years of Social Studies
4 years of additional coursework (from any area above, World Languages or non-doctrinal religion/philosophy)

NAIA ELIGIBILITY

If you plan to enroll in an NAIA college or university, please read this information carefully.

To be academically eligible, the eligibility center requires that incoming freshmen meet two of three criteria.

- Achieve a minimum of 16 on the ACT or 860 on the SAT*
- Achieve a minimum overall high school grade point average of 2.0 on a 4.0 scale
- Graduate in the top half of their high school class.

*These test score requirements are for any athletes taking standardized tests from March 1, 2016 – May 1, 2019. After May 1, 2019, the test score requirements will be an 18 ACT or a 970 SAT.

Student-athletes should create an account at www.PlayNAIA.org, which processes initial eligibility and provides details regarding eligibility requirements and documentation.



Recommended Four-Year Course Plans

SUBJECT AREA	LEXINGTON CHRISTIAN REQUIREMENTS FOR GRADUATION	RECOMMENDED FOR COLLEGE ENTRANCE	RECOMMENDED FOR ELITE COLLEGE ENTRANCE AND MERIT-BASED SCHOLARSHIPS
Bible	4 credits	4 credits	4 credits
English	4 credits	4 credits	4 credits
Mathematics	4 credits	4 credits	4 credits
Science	3 credits	3-4 credits	4 credits
Social Studies	3 credits	3 credits	3-4 credits
Health	0.5 credit (1 semester)		
Physical Education	0.5 credit (1 semester)		
World Languages	2 credits of same language	3 credits of same language	4 credits of same language
Fine Arts/Humanities	1 credit		
Electives	3 credits total	3 credits (strategically chosen electives)	
Communications	Public Speaking (0.5 credit)		

Example Four-Year Plans

Please note that academic plans vary from student to student and based on educational goals.

State College/University Admission

SUBJECT AREA	Freshman	Sophomore	Junior	Senior
Bible	Bible I	Bible II	Bible III	Bible IV
English	English I	English II	English III	English IV
Mathematics	Algebra I	Geometry	Algebra II	Trigonometry
Science	Physical Science	Biology	Chemistry	
Social Studies		World Civilizations	US History	Government and Economics
Health	Health			
Physical Education	Physical Education			
World Languages	Spanish I	Spanish II	Spanish III	
Humanities / Communications	Band			Public Speaking
Electives		Apologetics & Digital Photography	Physical Wellness (2 sem)	Study Hall Internship (2 sem)

Elite University Admission and Merit-Based Scholarship Consideration

SUBJECT AREA	Freshman	Sophomore	Junior	Senior
Bible	Bible I	Bible II	Bible III	Bible IV
English	Honors English I	Honors English II	AP English Language	AP English Literature
Mathematics	Honors Algebra II	Honors Precalculus	AP Calculus AB	AP Calculus BC
Science	Honors Biology	Honor Chemistry	AP Biology	AP Chemistry
Social Studies	AP Human Geography	AP World History: Modern	AP US History	Government and AP Economics
Health	Health			
Physical Education	Physical Education			
World Languages	Spanish II	Spanish III	Spanish IV	AP Spanish Language
Humanities/ Communications		2D Art I (0.5) 3D Art I (0.5)		Public Speaking
Electives				

*Student elective requirements are met by exceeding requirements in Science, Social Studies, and World Languages.



Academic Pathways

Beginning with the Class of 2025, LCA students may choose to pursue an academic pathway in an area of interest. These personalized learning opportunities for our students help ensure that they meet their goals and allow LCA to continue to equip and nurture students to fulfill God's calling on their lives through Christ-centered education.

LCA's Academic Pathways will create:

- A high school level academic area of focus
- Special pathway recognition at graduation and an endorsement seal for pathway achievers on their diploma
- A pathway achiever cord or medallion to be worn at graduation

Academic Pathways require completion of specific elective courses which are taken in addition to the student's core academic curriculum (Bible, English, math, science, social studies and world language). Academic Pathways are open to all students with no requirements for participation in Honors/AP courses in core academic areas. While some pathways offer flexibility on the timing of the electives*, students are strongly encouraged to set out on their Academic Pathway experience during their freshman year. Some pathways include an off-campus internship or capstone project during the senior year. LCA's Academic Pathway options and the required courses for each are detailed below.

Christian Ministry and Leadership Pathway

As an institution of Christian education, we must answer the call and responsibility to train and prepare young people for roles as servant leaders in areas of ministry where God may call them. This track offers opportunities to students to explore and develop the skills needed to serve God.

Courses required for endorsement:

Freshman Year	Sophomore Year	Junior Year	Senior Year
Apologetics I*	Leadership & Spiritual Formation*	Apologetics II*	Christian Ministry and Leadership Internship

Business Pathway

The Business pathway allows students to pursue their interests in areas of accounting, law and finance.

Courses required for endorsement:

Freshman	Sophomore	Junior	Senior
Introduction to Business	Accounting I AND Accounting II	Business Law	Personal Finance AND Business Internship

Fine Arts Pathway

Students may follow their passion and develop their God-given talents in either Visual Arts or Performing Arts pathways.

Courses required for Performing Visual Arts endorsement:

	Freshman	Sophomore	Junior	Senior
Performing Arts Core (4 credits)	Ensemble* <ul style="list-style-type: none"> ▪ Chorus ▪ Treble Choir ▪ Band ▪ Jazz Band ▪ Orchestra 	Ensemble* <ul style="list-style-type: none"> ▪ Chorus ▪ Treble Choir ▪ Band ▪ Jazz Band ▪ Orchestra 	Ensemble* <ul style="list-style-type: none"> ▪ Chorus ▪ Treble Choir ▪ Band ▪ Jazz Band ▪ Orchestra 	Ensemble* <ul style="list-style-type: none"> ▪ Chorus ▪ Treble Choir ▪ Band ▪ Jazz Band ▪ Orchestra
Electives (2 credits)			History of the Visual and Performing Arts AND Piano OR Guitar	AP Music Theory

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Course Offerings

BIBLE & THEOLOGY DEPARTMENT

Course Title	Grade	Length	Credit
Christ in the Old and New Testaments	9	Year	1
Themes of Scripture	10	Year	1
History of Christian Thought	11	Year	1
Ethics and Culture in a Modern Society	12	Year	1
Apologetics	All	Sem	0.5
Leadership & Spiritual Formation	11,12	Sem	0.5
Christian Ministry & Leadership Internship	12	Sem	0.5

Bible I: Christ in the Old and New Testaments

9th Grade ● Year (1 cr)

Takes the student through a Christ-centered study of the whole Bible. The class texts and other sources will assist the student in examining the historical and cultural backgrounds of the Bible. The student will also be taught how to work with passages of Scripture using inductive Bible study methods. The students will develop a greater understanding of the various ways God foreshadowed the coming of Christ to the Jewish people. The students will then examine the New Testament to discover how Jesus is revealed as the fulfillment of the Old Testament prophecies and the Savior of the world. An emphasis will be placed on personal application throughout the study.

Bible II: Themes of Scripture

10th Grade ● Year (1 cr)

Designed to bring the student to an understanding of twenty core themes that are revealed and developed throughout the Scriptures. Students will work to become competent in studying the Bible and letting it address our paradigms of thought and values. As a result of our study we aim to develop a heart and mind for God's revelation that shapes our worldview, sense of purpose and broadens our foundation for future study.

Bible III: History of Christian Thought

11th Grade ● Year (1 cr)

An introduction to the major events, figures, ideas and issues that have shaped and guided the church from the early Apostolic Fathers to the 20th Century. The course will focus on key periods of church history and doctrinal formation. The course will examine the key doctrines, theology, and practices of the many Christian traditions. The influence of Christianity and the church on Western Civilization will also be explored.

Bible IV: Ethics and Culture in a Modern Society

12th Grade ● Year (1 cr)

Designed to take a serious look at the student's worldview and explore Christianity as a worldview as it relates to a number of contemporary issues. This class will take a detailed look into the major questions that all worldviews must answer. From this framework, the student will be challenged to develop his/her personal Christian worldview on each topic.

Apologetics

All Grades ● Semester (0.5 cr)

Accounting 1 and instructor approval; may repeat for add'l credit (2 sem max)

Equips students to engage current culture in defending our faith; to practice the spiritual disciplines and enjoy greater connection with God; to lean into and practice using our skills and passions from the Father to make a difference in our communities now.

Leadership and Spiritual Formation

Grades 11, 12 ● Semester (0.5 cr)

Apologetics

This course is designed to assist students to better clarify and actualize their individual calls to ministry. Students will gain an understanding of what it means to be called into ministry and explore how their gifts can be utilized to expand God's kingdom on earth. Students will also gain theoretical and practical knowledge and experience in various areas of servant leadership.

Christian Ministry and Leadership Internship

12th Grade ● Semester (0.5 cr)

Pass/Fail

Apologetics

This course provides senior students the opportunity to apply what they have learned in Bible and Pre-Ministry track classes to real world situations and allow them to obtain valuable work experience. Students must complete an application to be approved by a faculty member in the Bible Department and an administrator. The application will outline the work to be completed by the student, the hours in which the students will work, and the name of the student's supervisor. The student will be responsible for completing a certain amount hours (as determined by administrator and internship supervisor) of work in the internship. Both the student and the supervisor must complete an evaluation by the end of the semester for the student to obtain credit. Credit for this class will be pass-fail only.

BUSINESS/TECHNOLOGY DEPARTMENT

Business Courses

Course Title	Grade	Length	Credit
Accounting I	All	Sem	0.5
Accounting II	All	Sem	0.5
Intro to Business	All	Year	1
Personal Finance	11, 12	Sem	0.5
Business Law	All	Year	1
Criminal Law	All	Sem	0.5
Mock Trial	All	Sem	0.5
Business/Tech Internship	11, 12	Sem	0.5

Accounting I

All Grades ● Semester (0.5 cr)

Introduces students to the basic principles of accounting for sole proprietorships. Students will learn to journalize business transactions, post to ledgers, and prepare financial statements and payroll. This class will benefit students who pursue a college degree in any area of business, choose a clerical occupation after graduation, as well as those who might own their own business. Online homework.

Accounting II

All Grades ● Semester (0.5 cr)

Accounting I and instructor approval

The same basic principles from Accounting I are utilized by students as they learn how those same principles apply to corporations, partnerships and not-for-profit organizations. Most homework will be done online.

Introduction to Business

All Grades ● Year (1 cr)

Introduces students to the concepts and skills required for success in today's marketplace. Topics include basic global economics, entrepreneurship, human resources and management, leadership, basic financial management, marketing, production, and risk management. Students will also participate in the Junior Achievement Business Plan Challenge during the 2nd semester.

Personal Finance

Grades 11, 12 ● Semester (0.5 cr)

Introduces students to the importance of personal financial analysis planning and management. Topics include understanding the foundations of financial planning, including budgets, debt, insurance, investments, retirement, saving and giving. This class will primarily use the Dave Ramsey curriculum titled *Foundations in Personal Finance*.

Business Law

All Grades ● Year (1 cr)

Theme-related, law-based course focuses on the study of law for business and personal use. Designed to introduce topics such as ethics, contracts, sales, court systems, employment, and personal business transactions in business and personal law, beginning with the origins of law. The material provides students with practical guidelines for becoming well-informed,

contributing citizens and consumers, both now and in the future. Also develops a fundamental understanding of how the law governs business and its operations.

Criminal Law

All Grades ● Semester (0.5 cr)

Introduces students to criminal law and procedure. Course material will include an overview of constitutional law governing criminal proceedings from the arrest through trial. Students will analyze landmark Supreme Court cases and discuss recent developments in criminal law. Throughout the course, students will also consider ethical issues related to criminal law, from investigation to penalty phase.

Mock Trial

All Grades ● Semester (0.5 cr)

Designed to improve students' skills of argument and persuasion through the development of a case for trial. The course will begin with exercises in argumentative writing and a review of basic civil and criminal procedure. Students will practice various aspects of trial procedure, including opening statements, direct and cross-examination of witnesses, and closing arguments. While the final exam will be performance in the trial, there will be several writing assignments throughout the semester.

Business and Technology Internship

Grades 11, 12 ● Semester (0.5 cr)

Pass/Fail

Approval by department and administrator; proof of acceptance into an approved internship program; may repeat for additional credit (4 sem max)

Provides junior and senior students the opportunity to apply what they have learned in Business and Technology classes to real world situations and allow them to obtain valuable work experience. Students must complete an application to be approved by a faculty member in the Business and Technology Department and an administrator. The application will outline the work to be completed by the student, the hours in which the students will work, and the name of the student's supervisor. The student will be responsible for completing at least 70 hours of work in the internship. Both the student and the supervisor must complete an evaluation by the end of the semester for the student to obtain credit.

Technology Courses

Course Title	Grade	Length	Credit
Digital Photography I	All	Sem	0.5
Digital Photography II	All	Sem	0.5
Graphic Design Software	All	Sem	0.5
Video Editing and Special Effects	All	Sem	0.5
Advanced Digital Media I-IV	10, 11, 12	Sem	0.5
Journalism/News	All	Year	1
Journalism/Yearbook	All	Year	1

Digital Photography I

All Grades ● Semester (0.5 cr)

Provides students with the opportunity to learn about photography as a communication tool, as well as its aesthetic

appeal. Course material includes the history of photography, the basics of operating a digital camera, basic composition, lighting, and photo editing. Students will learn about a possible future in photography as well as the ethical, artistic, and educational implications in the medium. Students will use cell phones or other point-and-shoot cameras for this class.

Digital Photography II

All Grades ● Semester (0.5 cr)

Digital Photography I
Must own or have access to a digital camera with manual function
Provides students with a creative outlet in the medium of photography, opportunities to learn more about the art of photography, and gain practical experience as photographers. Students will be required to take photographs with DSLRs or any type of camera with manual functions. Course material will consist of technical aspects of photography such as shutter speed, aperture, and ISO. This course will also give students the opportunity to learn about a possible future in photography and the ethical, artistic, and educational implications of such a career.

Graphic Design Software

All Grades ● Semester (0.5 cr)

Focuses upon the use of computer software as it relates to design layout, and conceptual elements concerning graphic design. Lessons will cover the basics of computer generated graphic design, layout, typography, color, and vectors. Some topics covered will be: advertising or product creation, animation, and logo design. Students will gain a strong foundation in Adobe's design software.

Video Editing & Special Effects

All Grades ● Semester (0.5 cr)

Graphic Design Software OR Digital Photography I
Designed to introduce students to the materials, processes, and artistic techniques involved in video productions and special effects. The emphasis will be on editing, rather than shooting video. Topics covered will be: the history of film editing, non-linear editing software, types of cuts, transitions, and manipulation of video with software. Students will learn to use Adobe: Premiere Pro and After Effects to properly edit their creative projects. Students will be expected to film outside of class for group and individual projects.

Advanced Digital Media I-IV

Grades 10, 11, 12 ● Semester (0.5 cr)

Digital Photography II or BOTH Graphic Design Software and Video Editing & Special Effects AND department approval
Designed for students who have reached the highest level of study in one or more LCA digital media courses. This course will allow students to exercise their talents in one or more areas of digital media and learn skills while working both as an individual and in teams on real-world projects. This course is designed to build teamwork and entrepreneurial skills. Students who desire to pursue higher education in digital media or technology can begin to build their professional portfolio. Can be taken up to four (4) times for credit, listed on transcript as Advanced Digital Media I, II, III, IV.

Journalism/News

All Grades ● Year (1 cr)

May be repeated for additional credit

Production-based course. This is a year-long course with an emphasis on the study of journalism, journalistic writing, photojournalism, and modern journalistic literature. Students will be exposed to traditional newspaper journalism through story generating, writing, designing, advertising and the editing process. Students will learn the fundamentals of news, feature, editorial and sports writing. Copy reading, news style and editing will be stressed. Students will create numerous original stories using varied structures and writing techniques. Students will be required to observe and meet deadlines. Students will be responsible for the production, publication, and marketing of the school newspaper, *The Talon*. The newspaper may be produced and published electronically. The class will involve some after-school work.

Journalism/Yearbook

All Grades ● Year (1 cr)

May be repeated for additional credit

Production-based course. This is a year-long course with an emphasis on the study of journalism, journalistic writing, photojournalism, and modern journalistic literature. Students will be exposed to yearbook (magazine) journalism through story generating, writing, designing, advertising and the editing process. Students will be required to observe and meet deadlines. Students will be responsible for the production, publication, and marketing of the school yearbook. Some after-school work.

Engineering Courses

Course Title	Grade	Length	Credit
Application Design and Programming I: Python	All	Semester	0.5
Application Design and Programming II: C++	All	Semester	0.5
PLTW Introduction to Engineering	All	Year	1
PTLW Principles of Engineering	10, 11, 12	Year	1
AP Computer Science Principles	10, 11, 12	Year	1
AP Physics	12	Year	1

Application Design & Programming I: Python

All Grades ● Semester (0.5 cr)

Concurrent Geometry or higher math; minimum of B in Algebra I
Provides students with an opportunity to learn the fundamentals of programming using Python. Python is a general-purpose, interpreted high-level programming language whose design philosophy emphasizes code readability. No prior programming experience is required, but a good working knowledge of the computer system is required. Students will learn Python concepts and design through hands-on examples which will aid them in preparation for the C++ and AP Computer Science Java programming classes.

Application Design & Programming II: C++

All Grades ● Semester (0.5 cr)

Concurrent Geometry or higher math; minimum of B in App Design I: Python
Provides students with an opportunity to build their programming skills and fundamentals using C++. C++ is a statically typed, free-form, multi-paradigm, compiled, general-purpose programming language. It is regarded as an

intermediate-level language, as it comprises a combination of both high-level and low-level language features. Students will learn C++ programming concepts and design through hands-on examples which will aid them in preparation for the AP Computer Science Principles class.

Introduction to Engineering Design

All Grades ● Year (1 cr)

Geometry
Students dig deep into the engineering design process, applying math, science and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software AutoDesk Inventor, and use an engineering notebook to document their work. This course is Project Lead the Way class (PLTW).

Principles of Engineering

Grades 10, 11, 12 ● Year (1 cr)

Intro to Engineering, Geometry
Students explore a broad range of engineering topics including mechanisms, strength of structure, and automation, and then they apply what they know to take on challenges like designing a self-powered car.

AP Computer Science A

All Grades ● Year (1 cr)

Concurrent Precalculus; B both semesters of Algebra II or C both semesters of Honors Algebra II; department approval
This full-year course provides students with an opportunity to learn the fundamentals of programming using Java. No prior programming experience is required but highly recommended. A good working knowledge of the computer system as a whole is required. Students will learn Java concepts through hands-on examples which will aid them in preparation for the AP Computer Science A exam.

ENGLISH DEPARTMENT

Courses in the LCA English Department address four areas of learning: grammar, composition, literature appreciation and vocabulary building. **All English courses have assigned summer reading.**

Course Title	Grade	Length	Credit
English I	9	Year	1
Honors English I	9	Year	1
English II	10	Year	1
Honors English II	10	Year	1
English III	11	Year	1
AP English Language and Composition	11	Year	1
English IV	12	Year	1
Public Speaking (limited online availability)	11, 12	Semester	0.5
AP English Literature	12	Year	1

English I

Grade 9 ● Year (1 cr)

Focuses on further developing students’ skills in reading, writing, listening, speaking, vocabulary and critical thinking using a variety of activities. Students will be exposed to various forms of literature; including but not limited to, short stories, poetry, and novels dealing with universal themes. The student will develop several formal essays and one analytical research paper.

Honors English I

Grade 9 ● Year (1 cr)

A in English 8 or B (85%) in Advanced English 8; 90% minimum Composition score; 8th grade teacher recommendation
Designed for the student seeking a greater challenge in English. The course will develop and advance students’ skills in reading, writing, listening, speaking, vocabulary and critical thinking using a variety of activities. Students will be exposed to various forms of literature; including but not limited to, short stories, poetry, and novels dealing with universal themes. The student will develop several formal essays, one analytical research paper, and timed writings. Students taking honors course should expect additional demands on time, personal organization, and commitment.

English II

Grade 10 ● Year (1 cr)

English I or Honors English I
Focuses on further developing students’ skills in reading, writing, listening, speaking, and critical thinking using a variety of activities. The focus of this class is world literature. Students will be expected to read and respond to a variety of literature, including but not limited to, prose, poetry, and novels. The study of language in use – grammar, mechanics, sentence structure, vocabulary, and usage will be incorporated into the course as well. The student will develop formal essays, one analytical research paper, and timed writings.

Honors English II

Grade 10 ● Year (1 cr)

A in English I or B (85%) in Honors English I; 90% Composition score; department approval
World literature course designed for the student seeing a greater challenge in English. Focuses on further developing skills in reading, writing, listening, speaking, vocabulary, and critical thinking using a variety of activities. This course will challenge the students to critique authors and their styles. Composition assignments will require students to compare and contrast various authors and literary writings including poetry and prose. Includes several formal essays, timed writings, and an analytical research paper. Students taking Honors course should expect additional demands on time, personal organization, and commitment.

English III

Grade 10 ● Year (1 cr)

English II or Honors English II
American literature course focusing on the chronological development of American writings and ideas. Major themes include authenticity, freedom, family and pursuit of faith. Students will write several formal essays, timed writings, and an analytical research paper. The study of language in use –

grammar, mechanics, sentence structure, vocabulary, and usage will be incorporated into the course as well.

AP English Language and Composition

Grade 11 ● Year (1 cr)

A both semesters of English II or B (85%) both semester of Honors English II; PSAT EBRW 550 or higher, SAT ERBW score 1000 or ACT English 22 or higher; department approval

Challenges students beyond the expectations of the English III course. Focus is placed on making students aware of the interaction between the subject and a writer's purposes as well as audience expectations. Students will learn how grammar and usage contribute to effectiveness in writing. Students will read and write about subjects from a variety of disciplines with an emphasis on expository, analytical, and argumentative writing. Additionally, students will also compose their college application essay. Finally, students will research primary and secondary documents carefully synthesizing material from these texts in their own compositions. Students taking AP course should expect additional demands on time, personal organization, and commitment. Upon completion of this course, students will have the opportunity to sit for the AP English Language & Composition exam.

English IV

Grades 12 ● Year (1 cr)

English III

Year, 1 credit

Focuses on the history of English literature. Students will become skilled readers of a wide range of literature including, but not limited to, novels, prose and poetry. Students will be expected to read and respond to a variety of literature, independently, in group discussion, and in writing. All facets of language arts – listening, speaking, reading, and writing will be covered. The study of language in use – grammar, mechanics, sentence structure, vocabulary, and usage will be incorporated into the course as well. Students will compose several formal essays and an analytical research paper. Timed writings may also be incorporated into the curriculum.

AP English Literature

Grade 12 ● Year (1 cr)

A both semesters English III or B (85%) both semesters AP English Language; SAT Reading 500 or higher or PSAT EBRW 550 or higher or ACT English 22 or higher; department approval

Challenges students beyond the expectations of the English IV course. Students will thoroughly analyze both prose and poetry and are expected to participate in classroom discussions. Students will read several novels and plays, in addition to other selections. Several timed writings will be composed each semester. Analysis of literature through expository, analytical and argumentative essays will be conducted. Students will also compose their college application essay. Students taking AP course should expect additional demands on time, personal organization, and commitment. Upon completion of this course, students will have the opportunity to sit for the AP English Literature exam.

Dual Credit English (ENG 101 and ENG 102)

Grade 12 ● Year (0.5 cr each)

ENG 101

Admission to Dual Credit partner college/university.

This semester long course focuses on academic writing. It provides instruction in drafting and revising essays that

express ideas in Standard English, including reading critically, thinking logically, responding to texts, addressing specific audiences, and researching and documenting sources. Successful completion of this course will allow students to transfer credit from the providing institution to any college or university they want to attend. NOTE: ENG 101 is a semester-long course, offered in the fall.

ENG 102

Dual Credit ENG 101

This semester long course emphasizes argumentative writing. It provides further instruction in drafting and systematically revising essays that express ideas in Standard English. Includes continued instruction and practice in reading critically, thinking logically, responding to texts, addressing specific audiences, and researching and documenting credible academic sources. Successful completion of this course will allow students to transfer credit from the providing institution to any college or university they want to attend. NOTE: ENG 102 is a semester-long course, offered in the spring.

Public Speaking

Grades 11, 12 ● Semester (0.5 cr)

This course will introduce the students to the fundamentals of public speaking. Students will be guided through all steps of the speech writing process including researching, outlining, and delivering a speech. Students will give an array of speeches that will enhance their articulation and comfort with the art of elocution.

Public Speaking (Online)

Grades 11, 12 ● Semester (0.5 cr) 1 section, space limited

This course stresses the principles and practices of public speaking, which includes the preparation and delivery of several types of speeches along with the elements of effective voice usage, diction, and listening skills. This course will assist students in thinking clearly and expressing themselves effectively before audience and prepares students for college and careers. The goal of this course is to help students become better interpersonal and intrapersonal communicators.

FINE ARTS DEPARTMENT

Studio Art Courses

Course Title	Grade	Length	Credit
2-D Art I-IV	All	Sem	0.5
3-D Art I-IV	All	Sem	0.5
Printmaking	All	Sem	0.5
Advanced Studio Art	11, 12	Sem	0.5
History of the Visual & Performing Arts	11, 12	Sem	0.5
AP Art History~	10, 11, 12	Year	1
AP Studio Art	11, 12	Year	1

~may only be taken once

2-D Art I-IV

All Grades ● Semester (0.5 cr)

Course level placement determined by previous Studio Art course and instructor

Focuses on art techniques appropriate for the understanding, planning and creation of any and all two-dimensional artwork.

- 2-D I focuses on basic techniques as well as 2-D artists and cultural uses for 2-D art.
- 2-D II continues to develop 2-D techniques taught in 2-D I, introduces new 2-D techniques and also introduce concept development
- 2-D III and 2-D IV further development of 2-D artwork, with potential AP Studio 2-D portfolio development

3-D Art I-IV

All Grades ● Semester (0.5 cr)

Course level placement determined by previous Studio Art course and instructor

Focuses on art techniques appropriate for the understanding, planning and creation of any and all three-dimensional artwork (sculpture and ceramic).

- 3-D Art I focuses on basic techniques as well as 3-D artists and cultural uses for 3-D art.
- 3-D II continues to develop 3-D techniques taught in 3-D I, introduces new 3-D techniques and also introduces concept development.
- 3-D III and 3-D IV further development of 3-D artwork, with potential AP Studio 3-D portfolio development

History of the Visual and Performing Arts

Grades 11, 12 ● Semester (0.5 cr)

Four studio art courses; instructor approval

This course will outline the history of visual and performing arts, draw connections between them, and integrate students' understanding of world history. Students will trace music, dance, drama, and visual art form from creation to the contemporary era using existing works. They will also use characteristics of works from various cultures and time periods to create their own pieces of art and/or music. This course will be individualized to focus on student's specific art form (instrumental, vocal music, or visual art).

Printmaking

All Grades ● Semester (0.5 cr)

Covers a variety of printmaking processes and techniques (e.g. monoprint, collograph, etching, woodcut, linoleum cut, stencils, and screen print). Course emphasizes principles and elements of design. May include historical development of Western and non-Western cultures.

Advanced Studio Art

Grades 11, 12 ● Semester (0.5 cr)

Four studio art courses; instructor approval; may be repeated for additional credit.

This is an independent study course, which enable students to explore a particular art form in more detail and depth than other courses. Advancing skills, building confidence for professional showings or portfolio submission, and gaining experience in public performances or displays are emphasized. Career opportunities are explored. This class can be taken multiple times for credit.

AP Art History

Grades 10, 11, 12 ● Year (1 cr)

Instructor approval

Designed to allow students to examine major forms of artistic expression relevant to a variety of cultures evident in wide variety of periods from present times into the past. Students acquire an ability to examine works of art critically, with intelligence and sensitivity, and to articulate their thoughts and experiences.

AP Studio Art

Grades 11, 12 ● Year (1 cr)

Minimum two years of previous studio art courses; portfolio of three (3) art pieces for teacher approval

This course is an advanced class that will challenge the student to achieve a completed portfolio. Students must choose one area of focus: 2-D, 3-D, or drawing. The 24 pieces will come out of studies done within that focus. This portfolio will be turned in and graded by AP instructors.

Performing Arts Courses

Course Title	Grade	Length	Credit
Drama	All	Sem	0.5
Band	All	Year	1
Chorus	All	Year	1
Orchestra	All	Year	1
Piano	All	Sem	0.5
Guitar	All	Sem	0.5
History of the Visual and Performing Arts*	11, 12	Sem	0.5
AP Music Theory	11, 12	Year	1

*See course description in the Visual Arts section

Band

All Grades ● Year (1 cr)

May be repeated for additional credit; may be taken for one semester with instructor approval; instructor approval; fee associated

Students will learn through individual and group instruction. Individual instruction is offered based on the student's level,

while group instruction is geared toward higher-level students. Help will be given to any intermediate students to help them achieve the goals for class. Band is the core of the *Concert Band* and *Extracurricular Components* like the Pep Band, Percussion Ensemble, Stage Show/Stomp Groups, and the *LCA Mod Squad* (The Modern Music Group which includes Worship Music and many styles of Contemporary Music). A number of after-school rehearsals and performances are required for the extracurricular components. There are reasonable fees that accompany the extracurricular groups to cover additional staff costs, supplies and some travel costs.

Chorus

All Grades ● Year (1 cr)

May be repeated for additional credit; may be taken for one semester with instructor approval. *NOTE* All interested students should request Chorus, then will be placed into their appropriate chorus section after spring auditions. Presents group instruction in vocal technique and music concepts. Students will be exposed to contemporary as well as traditional music. Course also teaches musical fundamentals such as sight singing, dynamics, and harmonic intervals. One or more performances per quarter are required.

Drama I

All Grades ● Year (1 cr)

May be taken for one semester upon request

Emphasizes communication and writing skills through drama. Content will include theater history, acting techniques, improvisational skills and performance poise. Students will be expected to perform individually and in groups, and will be acting in scenes that are prewritten works as well as those they create themselves.

Drama II

All Grades ● Year (1 cr)

Drama I; may be taken for one semester upon request

Building upon the foundations from Drama I, this course is designed for the more advanced drama student. In addition to familiar topics such as acting and improvisation, we will dive into more advanced theater techniques including stage combat, special effects makeup for costuming, prop creation, sound effects and foley work, directing, audition techniques, and advanced lighting and stage design. We will seat at least one live theater performance as a class, travel together and ultimately produce a student-run live stage production for an audience.

Guitar

All Grades ● Semester (0.5 cr)

Own or have access to a guitar for outside practice a minimum of an hour/week.

This course is designed to teach the concepts and fundamentals needed to perform on the guitar. It will increase musical understanding and literacy as students learn to play melodies, chords in various keys, accompaniment patterns, and improvisational techniques. This is a beginner-level course, but can be taken by advanced students with additional coursework. Students will be expected to practice outside of class at least one hour weekly.

Jazz Band

All Grades ● Year (1 cr)

May be repeated for additional credit; may be taken for one semester with instructor approval; instructor approval; fee associated

Orchestra

All Grades ● Year (1 cr)

May be repeated for additional credit; may be taken for one semester with instructor approval; instructor approval

Designed to develop technique for playing classical stringed instruments (violin, viola, cello, bass, and piano). Covers the structures, humanities, purposes, processes and interrelationships of the arts as they apply to music. Students learn through individualized and group instruction. During the year a wide variety of repertoire is learned and performed. A number of out of school activities and performances are required for the extracurricular components.

Piano

All Grades ● Semester (0.5 cr)

Own or have access to a piano for outside practice a minimum of an hour/week.

Teaches the concepts and fundamentals needed to perform on the piano. It will increase musical understanding and literacy as students learn to play melodies, chords in various keys, accompaniment patterns, and improvisational techniques. This is a beginner-level course, but may be taken by advanced students with additional coursework. Students will be expected to practice outside of class at least one hour weekly.

AP Music Theory

Grades 10, 11, 12 ● Year (1 cr)

Department approval

This course will introduce students to the beginning concepts of music theory, the building blocks of music. Course content will include the elements of music (harmony, form, rhythm, melody, timbre, tempo, and dynamics), analysis of music, basic composition, aural skills, and music history. Reading music at a high level is needed for this course. At the completion of this course, student will be able to participate in the AP Music Theory exam and attempt to earn college credit.

MATH DEPARTMENT			
Course Title	Grade	Length	Credit
Algebra I	9	Year	1
Geometry	9, 10	Year	1
Algebra II	9, 10, 11	Year	1
Honors Algebra II	9, 10, 11	Year	1
Trigonometry	10, 11, 12	Year	1
Contemporary Math	11, 12	Year	1
Statistics	10, 11, 12	Year	1
MAT 150: College Algebra	11, 12	Sem	0.5
MAT 155: College Trigonometry	11, 12	Sem	0.5
Precalculus	10, 11, 12	Year	1
Honors Precalculus	10, 11, 12	Year	1
Calculus	11, 12	Year	1
AP Calculus AB	11, 12	Year	1
AP Calculus BC	12	Year	1
AP Statistics	10, 11, 12	Year	1

Algebra I

Grade 9 ● Year (1 cr)

Algebra I is a basic high school mathematics course. The course's focus is on the use of positive and negative real numbers, variables, and their use in expressions and equations, word problems, and linear equations

Geometry

Grades 9, 11, 12 ● Year (1 cr)

Algebra I

Geometry is a college-preparatory course, which seeks to improve spatial visualization skills as well as logical reasoning. It is a key course in preparation for college entrance examinations. Topics to be covered include area, volume, parallel lines, congruency, proofs, right triangles, and circles.

Algebra II

All Grades ● Year (1 cr)

Geometry

Algebra II is a college-preparatory course. The student will not only extend knowledge from Algebra I but will also add new topics. Topics to be covered include quadratic equations, radical expressions, logarithmic and exponential functions, trigonometric functions, solving systems of equations, imaginary numbers, and introductory Trigonometry.

Honors Algebra II

All Grades ● Year (1 cr)

A in Algebra I and High School Geometry taken in either High School or Junior High School

The general content of this course will mirror that of Algebra II. Topical areas will be examined in greater depth and at a more rapid pace. Homework expectations will be greater.

Trigonometry

Grades 10, 11, 12 ● Year (1 cr)

Algebra II; cannot be taken after completing Precalculus, Calculus or Dual Credit MAT 150/155.

Reinforces algebraic skills, extends the level of exponential and logarithmic instruction and begins an introduction into trigonometric functions, graphing these functions, the unit circle, and verification of identities. This will make entry into a Precalculus class easier and also make it possible to enter a business calculus class successfully at the college level without the need for a trigonometric class prior to entering Business Calculus. This course is designed to benefit the student planning on advancing to college and studying any fields associated with business, science, math, statistics, technology or health. This course cannot be taken after completing Precalculus, Calculus or MAT 150/155.

Contemporary Math

Grades 11, 12 ● Year (1 cr)

77% in Algebra II or 70% in Trigonometry, Precalculus, or Statistics

The course is an introduction to concepts and applications of mathematics. Topics such as sets, logic, algebra and geometry topics, and probability. Applications and examples are drawn from other included areas such as voting methods, apportionment, consumer finance, graph theory, systems of numeration, number theory and game theory. This course is not intended to prepare a student for Precalculus, Trigonometry or Calculus.

Statistics

Grades 10, 11, 12 ● Year (1 cr)

Algebra II

Designed to offer a continued study of quantitative thinking in the areas of statistics and probability. Students will be introduced to the major concepts and tools for collecting and analyzing data as it relates to four conceptual themes: exploring data, sampling and experimentation, anticipating patterns and statistical inference.

Precalculus

Grades 10, 11, 12 ● Year (1 cr)

B in Algebra II or passing grade in Algebra III/Trigonometry

Precalculus is designed for college-bound students. It offers an extension of algebraic study into the topics of functions, trigonometry, exponents, logarithms, and conic sections. An emphasis is placed on graphing throughout the course.

Honors Precalculus

Grades 10, 11, 12 ● Year (1 cr)

A or higher in Algebra I, Geometry and Algebra II or A in Honors Algebra II

Honors Precalculus will cover all material that is within a regular Precalculus class. It is assumed that almost no time will be required for general algebra review. Honors Precalculus will cover limits and parametric equations which will enable students to begin AP Calculus at chapter 2 – omitting the review chapter and the first chapter on limits. If possible, an introduction into series and sequences will be started.

Calculus

Grades 11, 12 ● Year (1 cr)

B or higher in Precalculus, Honors Precalculus or Dual Credit MAT 150/155

A college level mathematics course that cover similar topics to the AP Calculus AB course, yet moves at a much slower pace.

Dual Credit Math

MAT 150 College Algebra

Grades 11, 12 ● Semester (0.5 cr, plus 3 hours college credit)

MUST PAIR WITH MAT 155; B or higher in Algebra II, Precalculus or Algebra III/Trigonometry; partner college admission; additional fee required

Includes selected topics in algebra and analytic geometry. Develops manipulative skills and concepts required for further study in mathematics. Includes linear, quadratic, polynomial, rational, exponential, logarithmic and piecewise functions, systems of equations, and an introduction to analytic geometry.

MAT 155 College Trigonometry

Grades 11, 12 ● Semester (0.5 cr, plus 3 hours college credit)

MUST PAIR WITH MAT 150; B or higher in Algebra II, Precalculus or Algebra III/Trigonometry; partner college admission; additional fee required

Includes the trigonometric functions, identities, multiple analytic formulas, laws of sines and cosines, graphs of trigonometric functions in rectangular and polar coordinates, and solving trigonometric equations. Emphasizes applications in each topic.

Dual Credit requires admission to the partner college. There is an additional cost to take any LCA Dual Credit course offering. Additional information regarding the LCA Dual Credit Program will be provided upon requesting the course.

AP Calculus AB

Grades 11, 12 ● Year (1 cr)

A in both semesters of Precalculus or B (88%) in both semesters of Honors Precalculus; PSAT or SAT Math 560 or higher or ACT Math 24 or higher

AP Calculus AB is a college level mathematics course that offers the opportunity for college credit upon completion. Topics to be covered include: limits, derivatives, and integrals. Students should anticipate spending more time studying outside of class than is normally expended. Some summer preparation and review is expected.

AP Calculus BC

Grade 12 ● Year (1 cr)

C (77%) or higher in AP Calculus AB or A in Calculus

AP Calculus BC is a college level mathematics course that offers the opportunity for college credit for two semesters of Calculus. Topics include: limits, derivatives and all methods of integration, as well as series and sequences and their convergence and divergence. It will include the Taylor series and the McClaurin series. Students should anticipate spending more time with homework outside of class than is normally expected. Pace of the class will be set to allow for preparation for the exam in early May. Students taking the BC exam will have an AB sub score so that if the BC is not passed it is possible to still pass the AB exam. Students having previously passed the AB exam may sit for the BC exam and try to get credit for the second Calculus course at the college level.

AP Statistics

Grades 11, 12 ● Year (1 cr)

A in Precalculus or B in Honors Precalculus

AP Statistics is a college level mathematics course that provides the opportunity for college credit for one semester of Statistics. Topics include: describing and exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students are expected and required to apply critical reading and writing skills which distinguishes the course from other math topics. Students should anticipate spending significant time with homework outside of class in order to prepare for the AP exam in early May.

HEALTH and PHYSICAL EDUCATION			
Course Title	Grade	Length	Credit
Health	9	Sem	0.5
Physical Education	9	Sem	0.5
Physical Wellness	All	Sem	0.5

General Physical Education

Grade 9 ● Semester (0.5 cr)

Designed to provide the student with a background in developing a total fitness program. Daily lessons include warm-up activities, calisthenics, and introductory games for team sports. Basic fundamentals, general rules, and a brief history of each sport are included. Emphasis is also placed on cardiovascular and skill development.

Health

Grade 9 ● Semester (0.5 cr)

Designed to equip students in many practical areas of the Christian life. Topics covered include a review of body systems, sexual reproduction, first aid, substance abuse,

relationships, disease/personal hygiene, mental/emotional health, and nutrition.

Physical Wellness

All Grades ● Semester (0.5 cr)

May be repeated for additional elective credit

Challenge students in areas pertaining to physical wellness and health. Students will learn proper weight training techniques in basic lifts including: squat, power lift, and bench press. They will also receive instruction on how outside factors such as nutrition, sleep, and hydration affect a body in training. In addition to physical training, there is an emphasis on spiritual strength and character development.

SCIENCE DEPARTMENT			
Course Title	Grade	Length	Credit
Biology	9, 10	Year	1
Honors Biology	9, 10	Year	1
Chemistry	10, 11	Year	1
Honors Chemistry	10, 11	Year	1
Anatomy	11, 12	Semester	0.5
Forensics	11, 12	Semester	0.5
Genetics	11, 12	Semester	0.5
Microbiology	11, 12	Semester	0.5
AP Biology	11, 12	Year	1
AP Chemistry	11, 12	Year	1
AP Physics	11,12	Year	1

Biology

Grade 9 ● Year (1 cr)

Students will develop a clear understanding of biological concepts, the use of important scientific processes in the laboratory, and proficiency in creative and critical problem solving. Included will be a correlation of Scripture and science along with an appreciation of God’s order in the world.

Honors Biology

Grades 9, 10 ● Year (1 cr)

A in 8th grade Physical Science; 90% in Algebra I or 85% in Geometry

Taught at an accelerated and in-depth pace, Honors Bio prepares students for AP Biology. Topics covered include those from the regular Biology as well as evolution (in depth), metabolism and molecular genetics.

Chemistry

Grades 10, 11 ● Year (1 cr)

Completed Geometry; concurrent enrollment in Algebra II

Objective is an understanding of how God is the “designer” of chemistry. Students will develop critical thinking and problem-solving skills. Topics include atomic structure, chemical formulae and equations, the periodic table, and gas laws. Laboratory experiences are integrated throughout.

Honors Chemistry

Grades 10, 11 ● Year (1 cr)

B (85%) in Honors Biology and B (85%) in Geometry or A (90%) in Biology and B (85%) in Geometry; concurrent enrollment in Algebra II

Taught at an accelerated pace, Honors Chemistry prepares students for AP Chemistry. Topics include those from the regular Chemistry course, in addition to acids and base equilibria, Reaction Rates, Oxidation reduction reactions, among others. Students must take this course, and earn at least a B each semester, to be permitted to enroll in AP Chemistry.

AP Biology
Grades 10, 11, 12 ● Year (1 cr)*

B each semester in Honors Biology or A each semester in Biology or Chemistry; department approval; *Sophomores must take concurrent Honors Chemistry and have department approval

AP Biology is designed to be the equivalent of a two semester, first-year, college biology course taken by biology majors. Students will prepare to take the AP exam for college credit. Cover cellular and molecular biology, biochemistry, heredity, evolution, populations and ecology. AP Bio is designed to be taken after completion of Chemistry and Biology. Students who have taken Physical Science and Honors Biology may take AP Bio concurrent with Chemistry.

AP Chemistry
Grades 11, 12 ● Year (1 cr)

A each semester of Chemistry or B in Honors Chemistry; A in Algebra II; completion of or concurrent enrollment in Precalculus; department approval

AP Chemistry is a college-level science course that offers the opportunity for college credit upon completion. Topics covered include: thermochemistry, atomic structure, oxidation-reduction reactions, and chemical equilibrium. Upon completion of this course, students will have the opportunity to sit for the AP Chemistry exam attempting to earn college credit. Students must be willing to spend time working outside of class and be committed to some independent study.

Anatomy
Grades 10, 11, 12 ● Semester (0.5 cr)

Biology

Focuses is on human anatomy and physiology, an expected background course for those students pursuing health-related or scientific careers. The scope of this course is the human body and its functions.

Forensics
Grades 10, 11, 12 ● Semester (0.5 cr)

Biology

Surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through virtual and hands-on labs and analysis of fictional crime scenarios, students will learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.

Genetics
Grades 10, 11, 12 ● Semester (0.5 cr)

Biology

This semester course deals structure and function of DNA, human genetic disease, biotechnology and ethical issues in genetics. Labs will focus on biotechnology skills such as electrophoresis and genetic crosses of organisms such as plants and fruit flies.

Microbiology
Grades 10, 11, 12 ● Semester (0.5 cr)

Biology

This semester course details the groups of bacteria and viruses with an emphasis on their role in human disease. Labs will focus on aseptic technique, gram staining and disease prevention.

AP Physics C: Mechanics
Grades 11, 12 ● Year (1 cr)

A in Precalculus or B (85%) in Honors Precalculus

AP Physics C: Mechanics is a calculus-based, college-level physics course. It covers kinematics; Newton’s laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation.

SOCIAL STUDIES DEPARTMENT			
Course Title	Grade	Length	Credit
World Civilizations	10	Year	1
AP World History: Modern	10	Year	1
US History	11	Year	1
AP US History	11	Year	1
American Government	12	Sem	0.5
AP US Government & Politics	12	Year	1
Economics	12	Sem	0.5
AP Economics (Macro/Micro)	12	Year	1
AP Human Geography*	All	Year	1
AP Psychology	11, 12	Year	1

*first AP course available for freshmen

World Civilizations
Grade 10 ● Year (1 cr)

A study of the major events in the history of humankind, beginning with a study of man’s first civilization and moving on to the 20th century. A special focus will be on European and Middle Eastern history, including a study of their ideas and impact on history.

AP World History: Modern
Grade 10 ● Year (1 cr)

A in 8th grade Social Studies; department approval

AP World History: Modern will allow students to investigate significant event, individuals, developments, and process from approximately 1200 C.E. to the present. Students will develop and use skills, practices, and methods to analyze primary and secondary sources, making historical comparisons, utilizing reasoning about contextualization, causation, continuity and change over time, and developing historical arguments. Students will make connections among historical developments in different times and places by examining the interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures.

US History

Grade 11 ● Year (1 cr)

US History will focus on the main people, events, and themes that have shaped United States history from Reconstruction to present day and God’s role in the development of the country.

AP US History

Grade 11 ● Year (1 cr)

A in both semesters of World Civilization or B (85%) in AP World History: Modern; department approval

In this college-level course, students will cover the same time period and events as US History 11 (1492-present) but with greater emphasis on primary source analysis and synthesis. Writing and discussion are integral components of this course. This course moves fast, so outside reading and note-taking is essential. Upon completion, students will have the opportunity to sit for the AP United States History exam, to attempt to earn college credit.

American Government

Grade 12 ● Semester (0.5 cr)

American Government will focus on the political systems found in the US Government. It will give a general overview of differing political philosophies with a special emphasis on those that influenced the development of the Constitution. Topics will then move directly into the operation of our government, specifically the development of powers of the Legislative, Executive and Judicial Branches.

AP US Government and Politics

Grades 12 ● Year (1 cr)

Department approval

Students will study the key concepts and institutions of the political system and culture of the United States. Units include Foundations of American Democracy, Interactions Among the Branches of Government, Civil Liberties and Civil Rights, Political Ideologies and Beliefs and Political Participation. Students will read key documents in US government and complete a research or applied civics project. At the end of this course, students may elect to take the AP exam.

Economics

Grade 12 ● Semester (0.5 cr)

Students will study two broad areas: microeconomics and macroeconomics. Microeconomics focuses on basic economics principles as well as a study of individual areas such as household finance and budget. Macroeconomics will focus more on the systemic forces that drive economies. Also discussed will be various types of economic structures, theories, and practices.

AP Microeconomics (fall semester) AND

AP Macroeconomics (spring semester)

Grade 12 ● Semester (0.5 cr)

MUST BE TAKEN AS A PAIR; Algebra II; department approval

This course pairing covers both Microeconomics and Macroeconomics. It begins with outlining the basic principles of economics. It then moves into a study in Microeconomics, which includes the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the role of government in promoting greater efficiency and equity in the economy.

Following that will be a study in Macroeconomics, which discusses the principles of economics that apply to an economic system as a whole. Such topics include a study of national income, price-level determination, economic performance measures, the financial sector, stabilization policies, economic growth and international economics. Students will be prepared to sit for BOTH the AP Microeconomics and AP Macroeconomics tests in the spring.

AP Human Geography

All Grades ● Year (1 cr)

A in 8th grade Social Studies course; department approval

Introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth’s surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. Specific topics include: The nature and perspectives of geography, population and migration, cultural patterns and processes, Political organization of space, agriculture, industrialization and economic development, and cities and urban land use.

AP Psychology

Grades 11, 12 ● Year (1 cr)

AP Psychology introduces students to the systematic and scientific study of human behavior and mental processes. While considering psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas.

WORLD LANGUAGES DEPARTMENT			
Course Title	Grade	Length	Credit
French I	8, 9, 10, 11	Year	1
French II	All	Year	1
Honors French III	10, 11, 12	Year	1
Honors French IV	11, 12	Year	1
AP French Language	12	Year	1
Latin I	All	Year	1
Latin II	10, 11, 12	Year	1
Spanish I	8, 9, 10, 11	Year	1
Spanish II	All	Year	1
Honors Spanish III	10, 11, 12	Year	1
Honors Spanish IV	11, 12	Year	1
AP Spanish Language	11, 12	Year	1

French I

Grades 8, 9, 10, 11 ● Year (1 cr)

The primary objective of this course is to enable students to acquire the basic skills necessary to begin communicating in French. Emphasis on all four language skills is included: listening, reading, speaking, and writing. Students will learn basic vocabulary and grammatical structures of the French language. French language will be the primary language in the classroom.

French II

All Grades ● Year (1 cr)

French I

As an extension of French I, French II is designed to continue the development of comfortable communication and knowledge of the French language. A secondary objective is to begin to give students insight into the Francophone world. Students will continue vocabulary acquisition, grammar development, reading of Bible verses in French, and expanding their use of the French language in the classroom and in conversation. French language will be the primary language in the classroom.

Honors French III

Grades 10, 11, 12 ● Year (1 cr)

B in both semesters of French I and Semester 1 of French II; recommendation

Emphasis is placed on reading, writing and conversational skills. Students will continue vocabulary and grammar development, but importance will be placed on using French to communicate. The course is conducted entirely in French.

Honors French IV

Grades 11, 12 ● Year (1 cr)

B in both semesters of French II and Semester 1 of French III; recommendation

Designed to continue the development of students’ language skills and to approach fluency in French. Extensive grammar review and working with reading strategies will help prepare students for further studies in the language. History topics from prehistoric through Napoleon will be studied. The course is conducted entirely in French.

AP French Language

Grades 10, 11, 12 ● Year (1 cr)

B in both semesters of French IIV; department approval

AP French will increase the understanding of written and spoken French, as well as improve ability to respond in correct and idiomatic French. Upon completion of this course students will be at a level consistent with that of students who have completed three years (six semesters) of college courses in the French language and have the opportunity to sit for the AP French language exam to earn college credit.

Latin I

All Grades ● Year (1 cr)

The primary objectives of this course are to bring students to the point where they can read the Latin of classical authors with confidence. This course will enhance general language learning techniques, including facility with English and enhancement of English vocabulary. Students will develop awareness of the culture of the Romans, its historic significance for us as Christians and contemporary relevance.

Latin II

Grades 10, 11, 12 ● Year (1 cr)

Latin I

This course will cover intermediate grammar and elements of composition so that students are able to read and write intermediate passages in Latin. They read aloud Latin passages for comprehension. The relationship of English to Latin is emphasized in vocabulary building, word derivation, and meanings of prefixes and suffixes. Points of grammar and syntax are developed through the study of classical literary passages. The geography, history, government and culture of Rome and the early Church are studied.

Spanish I

Grades 8, 9, 10, 11 ● Year (1 cr)

The primary objective of this course is to enable students to acquire the basic skills necessary to begin communicating in Spanish. Emphasis on all four language skills is included: listening, reading, speaking, and writing. Students will learn basic vocabulary and grammatical structures of the Spanish language.

Spanish II

All Grades ● Year (1 cr)

Spanish I

Spanish II enables the student to become more comfortable communicating. Students practice conversation, vocabulary acquisition, and grammar development through speaking the Spanish language. Students become familiar with Spanish-speaking cultures as they practice listening, writing, reading, and speaking in Spanish.

Honors Spanish III

Grades 10, 11, 12 ● Year (1 cr)

B in both semesters of Spanish I and Sem 1 of Spanish II; recommendation

Honors Spanish III emphasizes reading, writing, and conversational skills. Students will continue vocabulary and grammar development, but the importance will be placed on using Spanish to communicate. The Spanish language will be the primary language in the classroom.

Honors Spanish IV

Grades 11, 12 ● Year (1 cr)

B in both semesters of Spanish II and Semester 1 of Honors Spanish III; recommendation

Honors Spanish IV is an advanced level course that stresses a general appreciation of literature, writing and conversation. It also includes a comprehensive review of grammar.

AP Spanish Language

Grades 11, 12 ● Year (1 cr)

B in both semesters of Spanish IV; Seniors may advance from Spanish III to AP Spanish with added summer work

Students will read, speak and write in Spanish. The goal of this class is to become proficient in the Spanish language and culture. Six overarching themes will be studied: Families and Communities, Science and Technology, Beauty and Aesthetics, Contemporary Life, Global Challenges, Personal and Public Identities. At the end of the year, students will have the opportunity to take the AP Spanish Language and Culture Exam.

MISCELLANEOUS COURSE OFFERINGS

Career Development (Teacher's Aide)

Grades 12 ● Semester (0.25 cr) Pass/Fail

Teacher approval

Students learn about careers through assisting teachers and staff members with daily tasks, planning and communications. May be repeated for additional credit.

Eagle IT Help Desk

Grades 11, 12 ● Semester (0.25 cr) Pass/Fail

LCA IT Department approval; may be repeated for additional credit

Eagle Help Desk internship provides a way for students to expand their technology integration and proficiency, while providing a valuable service to the school. Students will take a leadership role in providing technology support, troubleshooting, and other computer resources for both students and teachers. In order to obtain credit for the class, the student must provide a personal evaluation of the work completed by the end of the semester. This evaluation must be signed by a member of the LCA IT staff.

International Accelerated Study Abroad

Focus: Christian Leadership

All Grades ● Varies (0.25 cr) Pass/Fail

May be taken as a 0 credit Audit, declared prior to travel

Study Christian leadership skills within the context of famous destinations. Topics of study vary based on the location, but may cover relationships, communication, worldviews, philosophy, culture, history and personalities. The course focuses on learning to be a Christian leader in a broken world and teaches students how to live a story worth telling and positively influence those around them. This course contains work required outside of class time, as well as one week of international travel (cost in addition to tuition) to a European/Asian country. Completion of all coursework is required for credit. *Possible destinations: China, England, France, Germany/Czech Republic, Greece, Israel, Italy, or Poland Partner Organization: Global Next Leadership Institute (www.globalnext.org)*

Leadership Forum

All Grades ● Year (0.25 cr) Pass/Fail

Application and acceptance into Leadership Forum; students are expected to participate in Leadership Forum throughout high school

Leadership Forum challenges students to learn and grow into better leaders through group discussion once a month and a yearly service project.

Study Hall

All Grades ● Semester (0 cr) Ungraded

Students may opt to have a study hall during any semester, as long as they are on track with all academic requirements for graduation. Study hall is a monitored hour where students may complete homework, required reading, test review or other class projects. This opportunity is available so that students who are enrolled in a more rigorous course load or who have afterschool commitments with church, athletics, employment, etc...may stay on top of their studies and reduce the evening time required for schoolwork.

Work Release

Grades 12 ● Semester (0 cr) Ungraded

Administrator approval

Seniors who are on track to graduate, including fulfillment of all elective requirements, may be permitted to leave school after 6th hour to begin their afterschool employment. Documentation of employment is required prior to approval of the Work Release and students are required to sign out in the High School Office every day before leaving campus. Detentions will be issued if students do not sign out daily.

BIBLE

Course Title	Grade	Length	Credit
I: Christ in the Old and New Testaments	9	Year	1
II: Themes of Scripture	10	Year	1
III: History of Christian Thought	11	Year	1
IV: Ethics and Culture in a Modern Society	12	Year	1
Apologetics	All	Sem	0.5
Leadership and Spiritual Formation	11, 12	Year	1
Christian Ministry & Leadership Internship	12	Sem	0.5

BUSINESS

Course Title	Grade	Length	Credit
Accounting I	All	Sem	0.5
Accounting II	All	Sem	0.5
Intro to Business	All	Year	1
Personal Finance	11, 12	Sem	0.5
Business Law	All	Year	1
Criminal Law	All	Sem	0.5
Mock Trial	All	Sem	0.5
Business and Technology Internship^	11, 12	Sem	0.5

TECHNOLOGY

Course Title	Grade	Length	Credit
Digital Photography I*	All	Sem	0.5
Digital Photography II*	All	Sem	0.5
Graphic Design Software*	All	Sem	0.5
Video Editing and Special Effects*	All	Sem	0.5
Advanced Digital Media I-IV	10, 11, 12	Sem	0.5
Journalism/News	All	Year	1
Journalism/Yearbook	All	Year	1

TECHNOLOGY – Engineering

Course Title	Grade	Length	Credit
Application Design and Programming I: Python	All	Sem	0.5
Application Design and Programming II: C++	All	Sem	0.5
PLTW Introduction to Engineering	All	Year	1
PLTW Principles of Engineering	10, 11, 12	Year	1
AP Computer Science A	10, 11, 12	Year	1

ENGLISH

Course Title	Grade	Length	Credit
English I	9	Year	1
Honors English I	9	Year	1
English II	10	Year	1
Honors English II	10	Year	1
English III	11	Year	1
AP English Language and Composition	11	Year	1
English IV	12	Year	1
AP English Literature	12	Year	1
Dual Credit English (ENG 101 and ENG 102)	12	Year (sem ea)	1 (0.5 ea)
Speech~	12	Sem	0.5

~Online available

FINE ARTS – Studio Art *

Course Title	Grade	Length	Credit
2D Art I-IV	All	Sem	0.5
3D Art I-IV	All	Sem	0.5
Printmaking	All	Sem	0.5
Advanced Studio Art	11, 12	Sem	0.5
History of the Visual and Performing Arts	11, 12	Sem	0.5
AP Art History	10, 11, 12	Year	1
AP Studio Art	11, 12	Year	1

FINE ARTS – Music *

Course Title	Grade	Length	Credit
Band	All	Year	1
Chorus	All	Year	1
Orchestra	All	Year	1
Piano	All	Sem	0.5
Guitar	All	Sem	0.5
History of the Visual and Performing Arts	11, 12	Sem	0.5
AP Music Theory	11, 12	Year	1

HEALTH and PHYSICAL EDUCATION

Course Title	Grade	Length	Credit
Health (spring)	9	Sem	0.5
Physical Education (fall)	9	Sem	0.5
Physical Wellness^	All	Sem	0.5

MATH

Course Title	Grade	Length	Credit
Algebra I	9	Year	1
Geometry	9, 10	Year	1
Algebra II	9, 10, 11	Year	1
Honors Algebra II	9, 10, 11	Year	1
Trigonometry	10, 11, 12	Year	1
Contemporary Math	11, 12	Year	1
Statistics	10, 11, 12	Year	1
MAT 150 College Algebra	11, 12	Sem	0.5
MAT 155 College Trigonometry	11, 12	Sem	0.5
Precalculus	10, 11, 12	Year	1
Honors Precalculus	10, 11, 12	Year	1
Calculus	11, 12	Year	1
AP Calculus AB	11, 12	Year	1
AP Calculus BC	12	Year	1
AP Statistics	10, 11, 12	Year	1

NATURAL SCIENCE

Course Title	Grade	Length	Credit
Biology	10	Year	1
Honors Biology	9, 10	Year	1
Chemistry	11	Year	1
Honors Chemistry	10, 11	Year	1
AP Biology	11, 12	Year	1
AP Chemistry	11, 12	Year	1
Anatomy	11, 12	Year	1
Genetics	11, 12	Sem	0.5
Microbiology	11, 12	Sem	0.5
AP Physics C: Mechanics	11, 12	Year	1

SOCIAL STUDIES

Course Title	Grade	Length	Credit
World Civilizations	10	Year	1
AP World History	10	Year	1
US History	11	Year	1
AP US History	11	Year	1
American Government	12	Sem	0.5
AP US Government & Politics	12	Year	1
Economics	12	Sem	0.5
AP Economics (Macro/Micro)	12	Year (sem ea)	1 (0.5 ea)
AP Human Geography	All	Year	1
AP Psychology	11, 12	Year	1

WORLD LANGUAGES

Course Title	Grade	Length	Credit
French I	8, 9, 10, 11	Year	1
French II	All	Year	1
Honors French III	10, 11, 12	Year	1
Honors French IV	11, 12	Year	1
AP French Language	11, 12	Year	1
Latin I	All	Year	1
Latin II	10, 11, 12	Year	1
Spanish I	8, 9, 10, 11	Year	1
Spanish II	All	Year	1
Honors Spanish III	10, 11, 12	Year	1
Honors Spanish IV	11, 12	Year	1
AP Spanish Language	11, 12	Year	1

OTHER

Course Title	Grade	Length	Credit
Career Development^	12	Sem	0.25
Eagle IT Help Desk^	11, 12	Sem	0.25
Study Hall	All	Sem	0
Work Release	12	Sem	0
Study Abroad: Christian Leadership^	All	N/A	0.25

*Meets Humanities Requirement
^ Pass/Fail Course, does not factor into GPA