



FAIRFIELD  
CHRISTIAN  
ACADEMY

*HIGH SCHOOL  
COURSE  
DESCRIPTION  
CATALOG*

## *Graduation Requirements*

Graduation from Fairfield Christian Academy requires a minimum of twenty-four (24) academic credits. Four (4) Bible credits are required with an additional twenty (20) credits, which must include the following:

Bible	4.00	Bible is required for each year in attendance at FCA. Students who transfer in after the 9 <sup>th</sup> grade will need a minimum of 20 credits plus Bible credit per year of attendance at FCA to graduate.
English	4.00	
Mathematics	4.00	College prep minimum: Algebra I, Algebra II and Geometry Mathematics units must include one unit of algebra II or the equivalent of algebra II.
Science	3.00	College prep minimum: Physical Science, Biology and Chemistry Science units must include one unit of physical sciences, one unit of life sciences and one unit advanced study in one or more of the following sciences: chemistry, physics or other physical science; advanced biology or other life science; astronomy, physical geology or other earth or space science
Social Studies	3.00	Social studies units must include .50 unit of American history and .50 unit of American government and .50 credit in World History/Civilizations. Class of 2023-2025 students must receive instruction in economics and financial literacy. FCA Economics/Financial Literacy meets requirement for this and a social studies credit (Class of 2023-2025).
Health	.50	
Physical Education	.50	(May include Phys. Ed. in 7 <sup>th</sup> and 8 <sup>th</sup> grade)
Computer	1.00	
Fine Arts	1.00	(May include fine arts in 7 <sup>th</sup> or 8 <sup>th</sup> grade)
Senior Project	.50	
Electives	<u>2.50*</u>	(College preparatory: Foreign Language 2 or more years) Electives units must include one or any combination of foreign language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required
<b>Total Credits</b>	<b>24.00</b>	*Class of 2026 required to take Personal Finance .50 elective credit course.

## Permanent Graduation Requirements:

1. **Meet graduation course requirements** – 20 state minimum and Bible each year in attendance at FCA.
2. **Demonstrate Competency** – Students must demonstrate competency in math and English by passing the state’s Algebra I and English II tests. Students who have taken required tests more than once without passing and have received remedial supports are able to show competency through one of the options below:
  - Earn credit for one math and/or one English course through College Credit Plus
  - Demonstrate career readiness and technical skill through foundational and supporting options
  - Enter into a contract to enlist in the military upon graduation
3. **Preparation for College or Careers:** Students must earn two diploma seals, one of which must be state defined, to demonstrate academic, technical and professional readiness for careers, college, the military or self-sustaining professions.

### State System of Diploma Seals

OhioMeansJobs Readiness Seal	Honors Diploma Seal
State Seal of Biliteracy	Technology Seal
Industry-Recognized Credential Seal	Citizenship Seal
College-Ready Seal	Fine and Performing Arts Seal (locally defined)
Military Enlistment Seal	Student Engagement Seal (locally defined)
Science Seal	Community Service Seal (locally defined)

Ohio Department of Education: <http://education.ohio.gov/Topics/Ohio-Graduation-Requirements>

<b>High School Academic Diploma with Honors</b> <i>Students need to fulfill 7 of the following 8 criteria to earn an Ohio Diploma with Honors</i>	
Subject	Criteria
<b>English</b>	4 units
<b>Mathematics</b>	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
<b>Science</b>	4 units, must include 2 units of Advanced Science
<b>Social Studies</b>	4 units
<b>Foreign Language</b>	3 units in same language, or 2 units in 2 or more languages
<b>Fine Arts</b>	1 unit
<b>Grade Point Average</b>	3.5 on a 4.0 scale
<b>ACT/SAT Score [excluding scores from the writing sections]</b>	27 ACT / 1280 SAT Scores may be super-scored by taking the best area on multiple tests and re-averaging

## REGISTRATION FOR CLASSES

Students attending Fairfield Christian Academy will be invited to pre-register for classes prior to the end of the school year. This will assist with the creation of the master schedule for the year. Students transferring to FCA will be able to discuss their class pre-registration during the family interview. Final scheduling of classes will occur approximately one week prior to the opening of the new school year. The Academy administration will announce the actual dates students may come to school to pick up their class schedules or obtain them online in the *Chalkable Information Now* Family Portal.

## GRADE FORGIVENESS PROGRAM

The *Grade Forgiveness Program* may allow the student to retake the course (with prior approval) for improving the grade and GPA. The previous grade will be taken off the transcript and replaced with the new grade. In the event that the grade does not improve, the student will retain the original grade. No additional credit will be awarded for the course. Ignitia online classes may also be considered as a retake option for a student. Summer school courses typically do not qualify for grade forgiveness.

## SCHEDULE CHANGES

Once a student has made course selections and these have been approved by the parent and counselor or administrator, there should be very little need for schedule changes. If a student was not scheduled for a course they need because that course has been cancelled, there were scheduling conflicts, or if student's career objectives change, students may apply for schedule changes. If a change is being considered, the student must first meet with the counselor or administrator within the 1<sup>st</sup> two weeks of the course who will determine whether the change is needed. The guidance office or administrator will then confirm that the student has permission for the change from the parent.

No course may be repeated without administrative approval. If a course is repeated during the school year, the new grade will automatically be the grade recorded on the student's transcript. This grade adjustment does not apply to classes taken in summer school.

Students may request a schedule change during the 1<sup>st</sup> two weeks of the course. Students *may not* withdraw from classes after the two-week deadline. FCA Administration will evaluate situations that involve new and unanticipated factors. Any course dropped, with administrative permission, after the beginning of a semester may carry a grade of "W," "WP," or "WF" (subject to administration discretion) which will be posted on the permanent transcript of grades. Withdrawal after the mid-point of the first quarter, without administrative approval, will have the grade of "F" on the transcript.

The only exceptions to this rule will be if withdrawal from a course is necessitated by the student's health (verified by a doctor in writing) or if a teacher determines that the student needs to be moved to a more appropriate class level or period based on the student's abilities.

## GRADING SYSTEM

		Honors/CCP			Honors/CCP		
A =	93-99%	4.000	4.000	C =	73-75%	2.000	2.333
A- =	90-92%	3.667	4.000	C- =	71-72%	1.667	2.000
B+ =	86-89%	3.333	3.667	D+ =	69-70%	1.333	1.667
B =	83-85%	3.000	3.333	D =	67-68%	1.000	1.333
B- =	80-82%	2.667	3.000	D- =	65-66%	0.667	1.000
C+ =	76-79%	2.333	2.667	F =	64% and below	0.000	0.000

### **Fairfield Christian Academy does not rank its students.**

Cumulative GPA is un-weighted. Honors and college credit courses are on an honor's grading scale that allows additional weight, but does not exceed the 4.00 GPA scale. Those courses are designated as HN (Honors) and CCP (College Credit) on the student transcript.

**High School Pacing** - College Preparatory with CCP options - please note that this is only a suggested plan as to how courses can be taken in high school and should be adjusted based on the students' academic needs and goals.

<b>8 Academic Periods</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
1	Bible 9	Bible 10	Bible 11	Bible 12
2	English 9	English 10	English 11	English 12
3	Math - Alg I or higher	Math - Geometry or higher	Math - Algebra II or higher	Math - Pre-Calculus/CP Algebra Review or higher
4	World History	US History (CP or CCP)	Government (CP or CCP)/Economics or Personal Finance	CCP Social Studies: Psychology/Sociology/Western Civ. I
5	Physical Science	Biology	Chemistry with Lab	Physics with Lab and/or Anatomy and Physiology
6	Spanish -I or II; French I	Spanish II or III; French II	Spanish III or IV	Spanish IV Spanish V - CCP off campus
7	Physical Education/Health/Computer	Fine Art*/Computer	CCP – Psych./Soc.; Western Civ. 1/2; English Comp 1/2	Senior Project and Oral Communications (CCP)
8	Study Hall/Elective/Fine Art*	Study Hall/Elective/Additional CCP course based on student maturity level	Study Hall/Elective/Fine Art*/Additional CCP courses/Computer	Study Hall/Elective/Fine Art*/Additional CCP courses - strongly recommend English Comp 1/2

\*Fine Arts includes Symphonic Choir, Knight Singers, Marching/Symphonic Band, art and visual media and students are encouraged to participate in more than one year as that is an excellent resume builder as well as a place for learning creative and leadership opportunities.

Students who complete Health/Physical Education in the summer can adjust this with other elective options.

Mentoring is strongly encouraged for students - this is an elective credit that allows students to learn in practical real world situations as they assist with various programs within the school. This is another excellent resume builder for scholarships and college acceptance.

## **Fairfield Christian Academy High School Courses – Quick List**

Courses listed with grade designation are generally taken during that grade. Some courses have designations of I, II, and III that shows sequence, but can start in any grade. Courses with grades in parenthesis are generally taken by students in that grade level: Example Oral Communications is integrated into English 12 and Senior Project so the course works best taken during the 12th grade year.

**Ignitia Lab courses** - Credit for course completion but course duration depends on the student. Courses can be finished in a quarter, semester or a year based on the student. Courses are done in a supervised lab, as teacher support is needed to grade papers, essay questions and supervise quiz and tests. This is a running total class - transcript grade is final grade for course.

**Transcript Designations and Grading/GPA Scale**  
**CP or No designation-** College Prep  
**HN - Honors** - FCA Honor GPA

**CCP - College Credit Plus** (High School and College Credit) - College Grading Scale and FCA Honors Scale - Grade is running total for course.

**AP – Advanced Placement course** – FCA Honors Scale and student takes AP Exam for possible college credit

Course	Credit	Grading Scale
<b>Bible (4.00 credits to graduate - 1/year)</b>		
Bible 9	1.00	FCA Standard Scale
Bible 10	1.00	FCA Standard Scale
Bible 11	1.00	FCA Standard Scale
Bible 12	1.00	FCA Standard Scale
Praise Band (11th-12th)	Audition required	
	1.00	FCA Standard Scale
<b>English (4.00 credits to graduate)</b>		
English 9	1.00	FCA Standard Scale
English 10	1.00	FCA Standard Scale
English 11	1.00	FCA Standard Scale
English 12	1.00	FCA Standard Scale
<b>English Electives</b>		
English Comp I CCP	1.00	College Grading Scale- FCA Honors GPA
English Comp II CCP	1.00	College Grading Scale FCA Honors GPA
Oral Communications CCP		
(Recommend 12th grade in conjunction with Sr. Project)		
	1.00	College Grading Scale FCA Honors GPA
<b>Science (3.00 credits to graduate /Honors 4.00)</b>		
Physical Science	1.00	FCA Standard Scale
Biology	1.00	FCA Standard Scale
Chemistry (Lab)	1.00	FCA Standard Scale
Physics HN (Lab)	1.00	FCA Honors Scale
Anatomy & Phys HN	1.00	FCA Honors Scale
<b>Math (4.00 credits to graduate)</b>		
Algebra I	1.00	FCA Standard Scale
Geometry	1.00	FCA Standard Scale
Algebra II	1.00	FCA Standard Scale
Pre-Calculus	1.00	FCA Standard Scale
College Prep Algebra	1.00	FCA Standard Scale
Business Math	1.00	FCA Standard Scale
Consumer Math (Ignitia)	1.00	FCA Standard Scale
Prob. & Stats A (Ignitia)	.50	FCA Standard Scale
Prob. & Stats B (Ignitia)	.50	FCA Standard Scale
Trigonometry (Ignitia)	.50	FCA Standard Scale
AP Statistics	1.00	FCA Honors GPA
College Level Math – CCP Program		
	1.0	College Grading Scale FCA Honors GPA
<b>Social Studies (3.00 credits to graduate/Honors 4.00)</b>		
World History	1.00	FCA Standard Scale
US History	1.00	FCA Standard Scale
US History CCP	1.00	College Grading Scale FCA Honors GPA
Government	0.50	FCA Standard Scale
Econ/Financial Lit	0.50	FCA Standard Scale
Intro Psychology CCP	1.00	College Grading Scale FCA Honors GPA
Intro Sociology CCP	1.00	College Grading Scale FCA Honors GPA

American Gov. CCP	1.00	College Grading Scale FCA Honors GPA
Western Civ. I CCP	1.00	College Grading Scale
<b>Ignitia Lab:</b>		
Civics	0.50	FCA Standard Scale
Psychology	0.50	FCA Standard Scale
Twentieth Century Amer. History		
	0.50	FCA Standard Scale
Vietnam Era	0.50	FCA Standard Scale
World Geography	0.50 - 1.00	FCA Standard Scale
<b>Foreign Language (None required to graduate/Honors 3.00 or 2.00 years of 2 languages)</b>		
<b>Classroom – best preparation for college</b>		
Spanish I-III CP	1.00/yr.	FCA Standard Scale
Spanish IV HN	1.00	FCA Honors Scale
<b>Ignitia Lab:</b>		
Spanish I-III	1.00/yr.	FCA Standard Scale
French I-II	1.00/yr.	FCA Standard Scale
<b>Computer (1.00 credit to graduate)</b>		
Computer I	1.00	FCA Standard Scale
Computer (Assessment)	1.00	FCA Standard Scale
<b>Ignitia Lab:</b>		
Business Computer Info Systems		
	1.00	FCA Standard Scale
Computer Science Principles		
	1.00	FCA Standard Scale
Digital Literacy	0.50	FCA Standard Scale
Fundamentals of Computer Systems		
	0.50	FCA Standard Scale
Fundamental of Digital Media		
	0.50	FCA Standard Scale
Fundamental of Programming/Software Development		
	0.50	FCA Standard Scale
Introduction to Computer Science		
	1.00	FCA Standard Scale
Introduction to Network Systems		
	0.50	FCA Standard Scale
Keyboarding and Applications		
	0.50	FCA Standard Scale
Network System Design		
	0.50	FCA Standard Scale
New Applications: Web Development		
	0.50	FCA Standard Scale
Office Applications 1		
	0.50	FCA Standard Scale
Office Applications 2		
	0.50	FCA Standard Scale
<b>Fine Arts (1.00 credit to graduate)</b>		
Visual Media (may repeat course)		
	1.00/yr.	FCA Standard Scale
Symphonic Choir (may repeat course)		
	1.00/y	FCA Standard Scale
Marching/Symphonic Band (may repeat course)		
	1.00/yr.	FCA Standard Scale
Knight Singers (may repeat course)		
	.40/year	FCA Standard Scale

Art I – Adv.	1.00/yr.	FCA Standard Scale
Ceramics	1.00	FCA Standard Scale
Painting	1.00	FCA Standard Scale
Photography/Yearbook	1.00/yr.	FCA Standard Scale
Portfolio Art (may repeat course)	1.00/yr.	FCA Standard Scale

**Ignitia Lab:**

Fundamentals of Digital Media	0.50	FCA Standard Scale
Music Appreciation	0.50	FCA Standard Scale
Music Theory	0.50	FCA Standard Scale

**Physical Education (.50 credit to graduate)**

Physical Education - (Credit in 7th and 8th grade has a maximum of .50)  
Varies by periods in the class - FCA Standard Scale

Physical Education (Ignitia) - Course adjusted based on amount of credit student needs - this is usually for students who did not get full .50 credit in 7th/8th grade. Course can be done during the school year or during the summer. Summer Ignitia is \$160.00 for .50 credit; summer credit and fee can be adjusted based on student need. Credit based on the student need - FCA Standard Scale

Phys Ed Waiver Exemption – No Credit or GPA

**Health (.50 credit to graduate)**

Health (Ignitia)	0.50	FCA Standard Scale
Health Summer (Ignitia)	\$160.00 fee	
	0.50	FCA Standard Scale

**Senior Project (.50 credit to graduate)**

Student planned and lead project combined with a research paper that is part of English 12 and a final presentation done in May of the senior year. Students may and are encourage to start projects early with the permission of the Senior Project Advisor.  
Credit - .50-1.00 based on number of project hours  
FCA Standard Scale

**General Elective Courses**

Mentor Period	Credit based on periods per week	
		FCA Pass/Fail Scale

**Ignitia Lab:**

ACT Test Prep	0.50	FCA Pass/Fail Scale
American Literature	0.50	FCA Standard Scale
British Literature	0.50	FCA Standard Scale
Christian Faith & Living	1.00	FCA Standard Scale
College Planner	0.50	FCA Standard Scale
Earth Science	1.00	FCA Standard Scale
Essentials of Communication	0.50	FCA Standard Scale
Essentials of Mathematics Test Prep	0.50	FCA Standard Scale
Family & Consumer Science	1.00	FCA Standard Scale
Foundations for Living	1.00	FCA Standard Scale
New Testament Survey	1.00	FCA Standard Scale

Old Testament Survey	1.00	FCA Standard Scale
Personal Financial Literacy	0.50	FCA Standard Scale

**Career & Technical Ed Elective Courses**

**Ignitia Lab:**

Banking Services Careers	0.50	FCA Standard Scale
Business Law	0.50	FCA Standard Scale
Career Management	0.50	FCA Standard Scale
Careers in Allied Health	0.50	FCA Standard Scale
Careers in Logistics Planning & Management Services	0.50	FCA Standard Scale
Careers in Marketing Research	0.50	FCA Standard Scale
Construction Careers	0.50	FCA Standard Scale
Engineering and Design	0.50	FCA Standard Scale
Engineering and Product Development	0.50	FCA Standard Scale
Essentials of Business	0.50	FCA Standard Scale
Introduction to Careers in Architecture & Construction	0.50	FCA Standard Scale
Introduction to Careers in Education and Training	0.50	FCA Standard Scale
Introduction to Careers in Finance	0.50	FCA Standard Scale
Intro to Careers in Government and Public Administration	0.50	FCA Standard Scale
Introduction to Careers in Transport, Distance and Logistics	0.50	FCA Standard Scale
Introduction to Consumer Services	0.50	FCA Standard Scale
Introduction to Information Technology	0.50	FCA Standard Scale
Introduction to Information Technology Support & Service	0.50	FCA Standard Scale
Nursing Careers	0.50	FCA Standard Scale
Small Business Entrepreneurship	0.50	FCA Standard Scale
Software Development Tools	0.50	FCA Standard Scale
Teaching and Training Careers	0.50	FCA Standard Scale
Technology & Business	1.00	FCA Standard Scale

**Study Hall - No Credit** - Students are not required to take a study hall, but are encourage to look at their overall time demands. The parent may request two study halls. Students involved in College Credit Plus course work may not exceed the 30 hour formula established by the State of Ohio and therefore may be assigned to study halls if they have reached the 30 hour limit, unless the parent desires to pay for the additional CCP course(s).

# FCA COURSE DESCRIPTIONS – GRADES 9-12

## BIBLE COURSE DESCRIPTIONS

*1 Credit for each year in attendance at Fairfield Christian Academy*

Grade 9-12 students are required to earn 1.00 credit of Bible per year of attendance at FCA. Students who attend FCA all four years will graduate with 4 credits of Bible. Transfer students will need one credit per year of attendance at FCA to graduate. Students may elect to take each Bible course as a graded class which will be included in the overall GPA of the student or as a pass/fail course which will not be included in the overall GPA of the student. Students requesting this method of grading need to talk with the guidance office at the start of the year. Bible classes also include students in being part of the **Students Engaged in Servant Leadership (SEISL)** which is an FCA service organization for students in grades 9-12. The mission of the Fairfield Christian Academy SEISL requirement is to assist each student by developing a caring, Christ-like attitude toward others and actively demonstrating a personal response to others' needs through willing, unselfish and sacrificial ministry. SEISL activities are required for each quarter and are graded as part of the course.

In grades 9-12, FCA currently uses a Bible curriculum published by Positive Action for Christ. Using a more traditional text based curriculum allows our staff to find the balance between teaching the content of scripture and helping students to apply the principles of scripture to their own lives. We believe that the intersection of study and real life application will best grow, encourage and equip our secondary students as they mature into young adults. Below you will find a brief overview of each text that is used. A more complete scope and sequence for each text is available upon request. (1.00 credit)

### **Bible 9 - Life of Christ**

This text takes students on a journey through the Gospel of John and helps them develop not only a deeper knowledge of Christ, but also a deeper relationship with Him. Featuring colorful maps, photographs, and recreations of biblical landmarks, The Life of Christ examines the ministry and work of God's Son within Israel's historical and geographical context. The real life application of this text begins by encouraging students to see themes in Scripture and aims to leave them with the ability to follow Christ without comparing themselves to others and without concern for the personal cost. (1.00 credit)

### **Bible 10 - Proverbs**

In the Book of Proverbs, Solomon wrote that the fear of the Lord is the beginning of wisdom. Starting with that definition, this one-year, 35-lesson study challenges students to apply godly wisdom to decisions in high school and beyond. The real life application of this text begins by impressing upon students the importance of understanding the need to be attentive to and to heed God's principles and ends with empowering students to allow God's power to discipline their life. (1.00 credit)

### **Bible 11 - Behold Your God**

This one-year, 35-lesson study has a single purpose—to encourage students to know their God. By presenting Scripture as God's self-revelation, Behold Your God magnifies the character and work of the Father, the Son, and the Holy Spirit. As students know and love their incomprehensible God, they'll discover a divine grace that they can reflect to others. The real life application of this text begins with inviting students to see God's work of sanctification in their lives and leaves them with the imperative of always putting Christ first and foremost. (1.00 credit)

### **Bible 12 - The Inner Man**

As followers of God, we must be strengthened by His Spirit in "the inner man" (Eph. 3:16). This one-year, 35-lesson study challenges high schoolers to focus on inward development, not just outward conformity. Students should learn that righteousness grows from God's work in us—that godly leadership flows from inner grace and strong character. The Student Manual includes a copy of J. Oswald Sanders' Spiritual Leadership. The real life application of this text begins by encouraging students to understand God's purpose for them right now and finishes with the charge to serve those they lead. (1.00 credit)



## Praise Band

Praise Band is a student led and teacher guided ensemble that prepares praise and worship music each week for secondary chapel services. A core group of students help the instructor to pick out repertoire, bring in guest performers, and brainstorm new ways to lead the student body in worship. The core group of musicians earn their Bible credits through participation in praise band. Guest musicians must still complete their regularly assigned Bible coursework. Maybe taken as a repeat course (1.00 credit)

## COLLEGE CREDIT PLUS PROGRAM AND COURSE DESCRIPTIONS

The College Credit Plus (CCP) program allows college ready students the opportunity to earn high school and college credit through the successful completion of college coursework. The program is intended to provide expanded opportunities for appropriately qualified students to experience rigorous academic pursuits at the college or university level. Any student admitted to a course by an institution of higher education will be expected and required to perform at the same level as the institution's students. Grades earned at the college will be included as part of the student's overall high school GPA. Please note that this may affect scholarship opportunities as well as the student's overall cumulative GPA.

Students are strongly encouraged to attend a meeting before March 30<sup>th</sup> prior to the school year of participation and notify FCA and the Ohio Department of Education by April 1<sup>st</sup> that they are interested in the program. Students must follow the application procedures for both acceptance into the college/university and funding needed to pay for the courses.

FCA partners with Ohio Christian University to provide students with the option of taking college courses at FCA. Students may take OCU classes for college credit using the funding that they apply for through the CCP program. Students can also self pay and take addition courses.

Students may also take courses at Ohio University Lancaster and other CCP programs which include on campus and online programs. CCP is a program to promote rigorous academic pursuits and to provide a wide variety of options to college ready students.

**Ohio Christian University Trailblazer Academy** – classes on campus at FCA or OCU or online:

To participate, students must meet the following requirements:

- Trailblazer Academy requires at least a 19 or high composite ACT score, a 980 composite SAT score, or an 80 ACCUPLACER Reading Comprehension score.
- Some course require alternate testing and course prerequisites.

**To apply for the Ohio Christian University Trailblazer Academy Program**

1. Complete the paper or online application (no application fee) – new students to program.
2. Complete the short form application if you are presently in the CCP program.
3. Submit an official high school transcript to Ohio Christian University – contact FCA guidance
4. Submit ACT/SAT/ACCUPLACER scores (may be on student transcript – check with FCA guidance)

**Ohio University – Lancaster** – classes on campus at OUL or online: Applicants must be remediation free, as defined by the recommended scores in the table below, in English and Reading. Students who wish to enroll in a math course or any course with a math requisite must also demonstrate remediation-free status in math, as defined by Ohio University in the chart below.

Readiness Area	ACT	Old SAT	SAT	ACCUPLACER
English Sub score	18	Writing 430 or Reading Scale Critical Reading Score 450	EBRW 490	Sentence Skills 88 or 5 on WritePlacer
Reading Sub score	22	450	EBRW 490	80
Mathematics Sub score	20	490	520	50 CLM

Interested students must submit the CCP application, secondary school transcript ACT/SAT or ACCUPLACER scores. Applicants must complete the CCP application and all official documentation must be received from the secondary school by the posted deadline of May 1.

**CCP Cost and Funding:** Qualified students have the option of taking the amount of courses covered by the State through the CCP funding, or the student can take additional courses at a personal cost per semester hour – this amount varies based on the delivery of the course and the college/university. Please refer to the CCP information each year for the self-pay amounts and procedures.

### **FCA On-Campus courses – Ohio Christian University CCP Partnership**

CCP course offerings at FCA each year are determined by student interest and teaching staff availability. If there are not enough students to hold the class at FCA then the student still has the option of taking the course on-line through OCU. Student with online classes will be assigned to a study hall where they will have access to tools to work on that course work.

#### **COM2000 Oral Communication**

**[3 semester hours/ 1.00 FCA credit – semester course – English Elective]**

This course is recommended for the senior year in conjunction with Senior Project. This is an introductory course covering the principles and practices of organization, development, composition and delivery of effective oral presentations. Students will gain and refine skills in developing a thesis, organizing content, controlling tone, and expressing ideas in a clear communicated language. In addition, students will conduct library research and incorporate research findings into papers/speeches using APA format. The student will receive both high school AND college credit after successful completion of the course. ACT composite minimum of 19 or ACCUPLACER equivalent.

#### **ENG1000 English Composition I**

**[3 semester hours/ 1.00 FCA credit –semester course – English Elective]**

This course is an introductory study of composition emphasizing writing as a process (prewriting, drafting, revising, and editing). Students will gain and refine skills of developing a thesis, organizing content, controlling tone, and expressing ideas in clearly communicated language. Course objectives include: Interpret the complex role language plays in one's life and world. Write and revise argumentative essays that demonstrate awareness of the rhetorical situation. Organize material and communicate ideas in a clear and concise language. Identify and correct problems in usage, structure, grammar, and mechanics in writing. Demonstrate competency in library and online research. Incorporate second-hand sources into an argument of evaluation, in APA style of documentation. The student will receive both high school AND college credit after successful completion of the course. ACT composite minimum of 19 or ACCUPLACER equivalent and ACT English minimum is 17 or ACCUPLACER equivalent.

#### **ENG1020 English Composition II**

**[3 semester hours/ 1.00 FCA credit –semester course – English Elective]**

This course is an intermediate course designed to extend and refine students' expository and creative writing experiences. Student writing will reflect university-level writing skills, such as principles of logical/critical thinking and reasoning, effective organization, APA research and documentation, and content-rich development of ideas. Recommended completion of LA101. The student will receive both high school AND college credit after successful completion of the course. ACT composite minimum of 19 or ACCUPLACER equivalent and ACT English minimum is 17 or ACCUPLACER equivalent.

#### **PSY1020 Introduction to Psychology**

**[3 semester hours/1.00 FCA credit – semester course – Social Studies]**

This course is a comprehensive survey of the field of psychology including a Christian perspective. Emphasis will be placed on theories of psychology and how you can apply what you have learned as a result of appropriate understanding of a particular psychological foundation. The student will receive both high school AND college credit after successful completion of the course. ACT composite minimum of 19 or ACCUPLACER equivalent.

### **SOC1020 Introduction to Sociology**

**[3 semester hours/1.00 FCA credit – semester course – Social Studies]**

This course is a beginning study of sociology: a scientific study of societies and human behavior. Interrelationships and group activity are focused upon, including dyadic groups, primary groups, institutions and society. The student will receive both high school AND college credit after successful completion of the course. ACT composite minimum of 19 or ACCUPLACER equivalent.

### **HIS2010 Western Civilization I: Ancient Age -Medieval Age**

**[3 semester hours/1.00 FCA credit – semester course – Social Studies]**

This course is a study of Western Civilization from the dawn of civilization through the Renaissance that focuses on the development of societies, ideas, politics and people that contributed to and are the basis of western civilization. The student will receive both high school AND college credit after successful completion of the course. ACT composite minimum of 19 or ACCUPLACER equivalent.

### **HIS2020 Western Civilization II: Modern and Postmodern Age**

**[3 semester hours/1.00 FCA credit – semester course – Social Studies]**

A study of Western Civilization through the Modern and Postmodern Age that focuses on the development of societies, ideas, politics, and people. The student will receive both high school AND college credit after successful completion of the course. ACT composite minimum of 19 or ACCUPLACER equivalent.

### **HIS2060 U.S. History1877 - Present**

**[3 semester hours/1.00 FCA credit – semester course – Social Studies]**

This course is an examination of the most significant event, ideas, issues, institutions, and personalities as well as the political, social, and economic developments, in U.S. History from 1877 to the present. The course includes a special emphasis on how the changes and continuities of the past continue to impact the present. The student will receive both high school AND college credit after successful completion of the course. ACT composite minimum of 19 or ACCUPLACER equivalent.

### **POL2010 American Government**

**[3 semester hours/1.00 FCA credit – semester course – Social Studies]**

Introduction to the institutions and processes of American government (the Constitution, Congress, Presidency, Courts, etc.) within a Biblical worldview. This course can be used to meet the high school graduation requirement for Government credit. The grade for this course can be used to meet the Ohio End of Course Government requirement and used toward the Ohio Citizenship Seal.

### **MAT1410 Statistics & Analysis**

**[3 semester hours/1.00 FCA credit – semester course – Math]**

This course is designed to acquaint students with statistical methods used in gathering and analyzing data. This course includes: sampling methods and data classification, descriptive statistics; percentiles and z-scores; basic concepts in probability; binomial and normal probability distributions, the Central Limit Theorem; estimating population parameters, hypothesis testing and linear correlation and regression. This course can also be taken for high school credit only based on the recommendation of the teacher. The student will receive both high school AND college credit after successful completion of the course. ACT composite minimum of 19 or ACCUPLACER equivalent and ACT Math minimum is 19 or ACCUPLACER equivalent. **Prerequisite: Successful completion of Algebra II**

### **MAT2000– Calculus I**

**[4 semester hours/1.00 FCA credit – semester course – Math]**

Introduction to differential calculus: Functions, limits, continuity, derivatives, differentiation rules, integration, calculus of trigonometric and exponential functions, derivatives of the trigonometric and transcendental functions, related rates, extrema, curve sketching, optimization. Applications to problems in science and engineering will also be part of this course as well as an introduction to anti-derivatives. The student will receive both high school AND college credit after successful completion of the course. ACT composite minimum of 19 or ACCUPLACER equivalent and ACT Math min is 24 or ACCUPLACER equivalent. **Prerequisite: Successful completion of Pre-Calculus**

## COMPUTER COURSE DESCRIPTIONS

*Computer Requirement – 1.00 credit for graduation*

### Computer I – Ignitia online course

Computer I helps students develop an understanding of technology, its characteristics, scope, core concepts and relationships between technologies and other fields. This online course includes keyboarding skills, technical skills, effective communication skills, and productive work habits. In this course, students will learn about proper keyboarding technique. Once the student has been introduced to keyboarding skills the lessons will include practice of those skills. Students will gain an understanding of computer hardware, operating systems, file management, and the Internet. In addition, they will apply their keyboarding skills and create a variety of business documents, including word processing documents and electronic presentations. The course then explores the use of application skills in Microsoft® Word®, Publisher®, PowerPoint® and Excel®. Students will use these applications to design, develop, create, edit, and share business documents, publications, and presentations. (1.00 credit required for graduation)

### Computer I - Credit by Assessment

Students with **exceptional skill in operating a computer and running software programs** may choose to take the Computer Competency Assessment. This tool is used to measure a student's knowledge and competency of the areas covered in the traditional Computer I class. Students must also show skill in keyboarding knowledge and speed by typing a minimum of 30 words per minute (WPM). They must also show proficiency in Word 2010, PowerPoint 2010, Excel 2010, Publisher and Google Classroom by producing a document meeting the specifications outlined in the Computer Competency Assessment. The grade and credit for the Computer Competency Assessment will be placed on the student's transcript after successful completion. **Interested students need to contact the FCA Admissions Office during the summer and this assessment must be completed before the start of the senior year.** This course is available for an additional fee for FCA Co-op students who wish to complete the coursework with permission from the administration. (1.00 credit - meets graduation requirement).

**See Ignitia Section for additional online courses for computer credit.** Visual Media can also be used to fulfill the computer graduation requirement. Students need to alert the guidance office as Visual Media is a fine art but can be used as a computer credit and requires a manual change to the transcript.

## FINE ARTS ELECTIVES

*Fine Arts Requirement – 1.00 credit for graduation*

### Art I

Art I emphasizes creative expression and ingenuity in problem-solving within a given set of limits. This hands-on course allows the student to explore various mediums for two-dimensional projects. The Art 1 course will include drawing, painting, printing, digital art, and when applicable: mixed media, art history and art appreciation. The students are expected to complete one research/essay paper as well as take tests if assigned. All projects are assigned with flexibility to develop the student's own creativity. (1.00 credit)

### Art II

Art II extends the hands-on concepts taught in Art I and calls upon the students to develop a more conceptual approach to problem solving. The student will work to master the different mediums used in assigned projects. Students are expected to develop a stronger understanding of proportion, perspective, and spatial relationships. Students are also introduced to digital art as well as 3-dimensional art through sculpture

**Prerequisite: Art I or permission of the instructor** (1.00 credit)

### Art Portfolio

Art Portfolio is an advanced studies class geared toward preparing the students for the further study of Art at the college level. Specific projects are assigned to meet portfolio requirements. Students will deal with different mediums at a much higher skill level. Specific areas of interest are drawing, painting, mixed media, and the introduction of computer graphic skills. Projects such as perspective landscapes, portraits, and conceptual story boards will be given. Assigned projects are more open-ended and will require a higher level of thinking to

develop the concepts that will lead to the final presentation. At the end of the class the student should have several pieces that can be used for the college scholarship portfolio. **Prerequisite: Art I and Art II or equivalent studies.** This course may be taken as a repeat class for credit. (1.00 credit)

### **Ceramics I**

Ceramics I is an introduction to hand-crafted ceramics art. The course covers the basic materials and techniques of ceramics hand building, methods of construction, forming on the potter's wheel, glazing and firing. The historic perspective, the contemporary expression using ceramic media, and discussion of ceramic issues are part of the class. (1.00 credit)

### **Art Portfolio**

Art Portfolio is an advanced studies class geared toward preparing the students for the further study of Art at the college level. Specific projects are assigned to meet portfolio requirements. Students will deal with different mediums at a much higher skill level. Specific areas of interest are drawing, painting, mixed media, and the introduction of computer graphic skills. Projects such as perspective landscapes, portraits, and conceptual story boards will be given. Assigned projects are more open-ended and will require a higher level of thinking to develop the concepts that will lead to the final presentation. At the end of the class the student should have several pieces that can be used for the college scholarship portfolio. **Prerequisite: Art I and Art II or equivalent studies.** This course may be taken as a repeat class for credit. (1.00 credit)

### **Marching/Symphonic Band**

The Marching Band and Symphonic Band are the two high school instrumental ensembles consisting of grades 7-12. The first quarter of the school year is focused on marching band where students learn music used for a halftime show, stand cheers, pre-game, and parade performances. Students will also learn the fundamentals of marching and work to put together a halftime show for our home and select away football games. The marching band utilized a drum corps style of marching and show design to go to OMEA (Ohio Music Education Association) marching competitions. The Symphonic Band meets during quarters 2-4 of the school year and focuses on a classical music education of the wind band repertoire. Students learn fundamental techniques on their instrument and basic to advanced music theory techniques in a performance ensemble environment. The Symphonic Band participates in OMEA large group adjudicated performance and performs in at least three concerts per year. This course may be taken as a repeat class for credit. 1.00 credit)

### **Knight Singers**

The Knights Singers is the premiere, auditioned vocal ensemble made up of members of the Symphonic Choir. Students learn advanced techniques through primarily a capella music spanning a wide range of musical time periods. The Knights Singers perform in at least three performances throughout the year. Auditions take place at the end of the previous school year, or at the beginning of the current school year. Knight Singers may be taken for repeat credit. (credit based on the number of days the class meets)

### **Painting**

The Painting course introduces the student to the painting technique and history. The course covers painting from life, basic color theory and compositional methods, and approaches painting from both traditional realism and abstract imagery. We will study the style of several different artists and art movements and students will begin to develop their own painting style. Personal expression is an important aspect to this course in addition to the emphasis on technical learning and skill. Students will work on in-class exercises and work assigned independently. This course may be taken for repeat credit. (1.00 credit)

### **Photography/Yearbook**

Photography/Yearbook is a course for creating, designing and publishing the annual school yearbook of FCA. This course will give the students a "real life" publishing environment and offer the experience of working on time-lines, group projects, team building and deadline schedules. Specific skills used in this course include graphic layout, graphic design, editorial writing and journalism, editing, photography and time management skills. Prior experience in these areas is helpful but not a prerequisite. This course may be taken as a repeat class for credit. (1.00 credit) May also fulfill computer graduation requirement.

### **Symphonic Choir**

The Symphonic Choir is the top choir at FCA consisting of students grades 8-12. During the course of the year, students will learn music theory, musicianship skills, sight reading skills, and music history through the study and preparation of classical choral music in a SATB choral ensemble. The choir performs in at least three concerts throughout the school year. Symphonic Choir may be taken for repeat credit. (1.00 credit)

### **Visual Media**

The FCA Visual Media Arts program familiarize students with the terminology and technology of today's media industry. The program provides plenty of hands-on opportunities and involve the writing (storytelling), development (pre-production), production and post-production of a variety of multimedia options. Options include radio, television, film, video, photography, audio, advertising, marketing, and the internet. Learning the techniques behind the scenes and the creative in front of the camera are all a part of what is expected from those interested in the media industry. From various media capturing devices including cameras, and drones, to lighting, graphic design, digital animation, mixed visual media, Photoshop, and Adobe Premier editing, the FCA Media program prepares students well beyond the next level of Visual Media Arts. This course may be taken as a repeat class for credit. (1.00 credit) May also fulfill computer graduation requirement.

**See Ignitia Fine Arts Descriptions for additional Fine Arts course descriptions.** **Visual Media** can also be used to fulfill the computer graduation requirement. Students need to alert the guidance office as Visual Media is a fine art but can be used as a computer credit and requires a manual change to the transcript.

## **ENGLISH COURSE DESCRIPTIONS**

*4 credits required for graduation*

### **English 9**

English 9 is designed to introduce the student to the interpretation of literature through the analysis of conflict, character, theme, structure, point of view, and moral tone. This process brings the student to the realization that literature is for more than entertainment. It is the reflection of life and a revelation of man's attitude toward his fellow man and God. The grammar component concentrates on helping the student improve sentence structure. Emphasis is put upon the parts of speech, sentence patterns, sentence combining, parallelism and agreement in writing. (1.00 credit)

### **English 10**

English 10 is designed to introduce the student to the artistic and stylistic elements in literature through the analysis of imaginative comparison, sound and syntax, thought and theme, allusion, symbols, and irony. This process encourages the student to recognize the beautiful and the aesthetic qualities present in literature and exposes him or her to creative ways of conveying meaning. The student is also introduced to the literary forms of biography, short fiction, lyric poetry, drama, personal essay, and the novel. The grammar component focuses upon teaching the student to write coherent paragraphs. Along with paragraph development, the student studies sentence patterns, transitions, agreement, parallelism, and verb tenses in writing. (1.00 credit)

### **English 11**

American Literature is a comprehensive study of our literary heritage as Americans. The student studies four literary periods: Early American, Romantic, Realistic and Naturalistic, and Modern Literature. The techniques of analysis learned in grades nine and ten are used to evaluate literature from a Biblical world-view. Emphasis is placed upon the shifting of American values as revealed in each author's work. The grammar component focuses on the writing of a research paper. The student reviews the writing process and writes in a variety of genres. The student is also required to research a topic and write a research paper. (1.00 credit)

### **English 12**

British Literature is a comprehensive study of the literature and language of England. The major literary periods that are studied are the Middle Ages, the Renaissance, the Romantic Period, the Victorian Era, and the Twentieth Century. Consideration is given to the political, social, cultural, historical, and religious events that influenced the literature of the day. Emphasis is placed upon discussion and essay in order to prepare the student for college level courses. (1.00 credit)

Students are encouraged to take CCP English Composition I and II. Those students who do will be able to take the following courses as well to fill out their senior English experience.

**College Credit Plus (CCP) courses that meet an English elective requirement at FCA:**

See the College Credit Plus section for course descriptions for the following English CCP courses:

<b>COM2000 Oral Communication</b>	<b>3 semester hours/ 1.00 FCA credit</b>
<b>ENG1000 English Composition I</b>	<b>3 semester hours/ 1.00 FCA credit</b>
<b>ENG1020 English Composition II</b>	<b>3 semester hours/ 1.00 FCA credit</b>

**FOREIGN LANGUAGE COURSE DESCRIPTIONS**

*2.00 credits minimum recommended for college-bound students*

Foreign Language is not required for graduation; however, most colleges recommend that a student have a minimum of 2 years or more depending on the student's ability and college major. Colleges with open admission policies will accept a student who does not have foreign language credit in high school.

The best preparation for college follows the plans listed below in rank order with 1 being the best recommendation for college preparation:

1. Classroom Spanish I-IV – affords the best preparation for the student for college and attaining an Honors Diploma (minimum Spanish I-III). Students in 8<sup>th</sup> grade may start Spanish I in the classroom. This is the only language that can be started in the 8<sup>th</sup> grade.
2. Spanish I, II and III can be done in the Ignitia computer lab format. This also allows for attaining an Honors Diploma.
3. French I and II can be done in the Ignitia computer lab format. If the student wants an Honors Diploma, he will need to take 2 years of Spanish either in the classroom or online with Ignitia Spanish I and II.

Students considering an Honors Diploma, which has the language requirement of 3 years of 1 language or 2 years of 2 different languages, should consider options 1-3 above as the best ways to obtain an Honors Diploma.

**Spanish Classroom Courses:**

**Spanish I**

Spanish I will begin with the basics and focus on the Present Tense along with many vocabulary terms, grammar and cultural topics. Students will focus on managing a variety of basic communicative tasks through reading, writing, listening, and speaking Spanish. Students will be expected to converse in the target language as much as possible and to read a short book in Spanish by the end of the course (1.00 credit)

**Spanish II**

Spanish II is offered as a continuation of the study of Spanish. This course reviews the structures and vocabulary learned in Spanish I, and moves through the Present Progressive, Preterit and Imperfect tenses. Vocabulary and cultural awareness will be increased appropriately. Students will learn the vocabulary and structures necessary to share the Gospel in Spanish. Students will be expected to converse in the target language as applicable. (1.00 credit) **Prerequisite: Spanish I.**

**Spanish III**

Spanish III is offered as a continuation of the study of Spanish. This course will review the structures and vocabulary learned in Spanish I and II, and move through the Perfect Tenses, the Future tense and the Conditional tense. Students will also have a focus on reviewing the Preterit and Imperfect tenses through reading a book. Students will go more in depth with cultural practices and perceptions. Students will be expected to converse in the target language as applicable. (1.00 credit) **Prerequisite: Spanish II.**

### **Spanish IV (Honors)**

Spanish IV is offered as a continuation of the study of Spanish. This course will review the structures and vocabulary taught in Spanish I, II, and III, and move through the subjunctive tenses. In addition to a review of specific tenses and grammar topics, students will study Spanish through authentic television programs and several novels. Students will be expected to converse in the target language 90% of the time. (1.00 credit) **Prerequisite: Spanish III.**

### **Ignitia Language Lab Courses:**

#### **French I - Ignitia Lab**

In French I, students begin to develop competence in four basic skill areas: listening, speaking, reading, and writing. While developing communicative competence in French, students gain and expand their knowledge of francophone countries and cultures. Emphasis is placed on learning the present tense, the near future and the past tense in French I through thematically designed units. Topics include home, school, family, holidays, and daily and leisure activities. (1.00 credit)

#### **French II - Ignitia Lab**

French II is a high school foreign language course that builds on and reviews skills and concepts taught in *French I* through further exposure to communication, cultures, connections, comparisons, and communities. Course materials are designed to support students as they work to gain a basic proficiency in speaking, listening, reading, writing and cultural competency. (1.00 credit) **Prerequisite: French I**

#### **Spanish I - Ignitia Lab**

Spanish I is an entry-level high school foreign language course that explores the Spanish language through communication, culture, connections, comparisons, and communities. Course materials are designed to support students as they work to gain a basic proficiency in speaking, listening, reading, writing, and cultural competency. Spanish I introduce students to the mechanics of the Spanish language, acquaints them with the cultural differences of Hispanic countries, and helps them gain a keen awareness of their own culture. (1.00 credit)

#### **Spanish II - Ignitia Lab**

Spanish II builds upon skills and concepts taught in *Spanish I*, emphasizing communication, cultures, connections, comparisons, and communities. Course materials are designed to support students as they work to gain a basic proficiency in speaking, listening, reading, writing, and cultural competency. This course gives students practice using the mechanics of the Spanish language, acquaints them with the cultural differences of Hispanic countries, and helps them gain a keen awareness of their own culture. (1.00 credit) **Prerequisite: Spanish I**

#### **Spanish III - Ignitia Lab**

Spanish III builds upon skills and concepts taught in Spanish II, emphasizing communication, cultures, connections, comparisons, and communities. Upon completion of the course, students should be able to do the following: 1.) Speak Spanish in everyday situations to communicate with other Spanish speakers. 2.) Write accurately and appropriately in Spanish to communicate with other Spanish speakers. 3.) Listen to and understand passages in Spanish related to various themes. 4.) Read and understand passages in Spanish related to various themes. 5.) Compare and contrast cultural aspects of Hispanic countries. 6.) Demonstrate an understanding of Hispanic countries and their corresponding cultures. (1.00 credit) **Prerequisite: Spanish II**

### **INDEPENDENT STUDY OPTION**

Enrollment in an independent study course (ISC) is limited to students who have been determined by the FCA administration to have irresolvable scheduling conflicts or extraordinary life situations that make it necessary to have an independent study course. This program can only be initiated by the FCA administration.



## MATHEMATICS COURSE DESCRIPTIONS

*4 credits required for graduation (Algebra I, Algebra II, and Geometry minimum)*

The goal of the Mathematics Department at FCA is to encourage students to follow a math pathway that is designed to best meet their current needs and prepare them for their future goals.

FCA offers the following courses in mathematics for grades 5-12:

Math 5	Algebra I	CP Algebra Review	Calculus II – CCP*
Math 6	Geometry	AP Statistics	Business Math
Math 7	Algebra II	Statistics – CCP*	Consumer Math
Pre-Algebra	Pre-Calculus	Calculus I – CCP*	Career Center Math+

+CCM (Career Center Math) – Some career center programs have program specific math requirements.

\*CCP (College Credit Plus) – college campus credit and/or online college math course.

**Pathway I** provides a traditional course of study designed to prepare students for either career center or college pathway.

**Pathway I** includes the following class offerings:

5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Math 5	Math 6	Math 7	Pre-Algebra	Algebra	Geometry	Algebra II, +CCM	Pre-Calc, CP Alg Review, Business Math, Consumer Math, +CCM, *CCP

+CCM (Career Center Math) – Some career center programs have program specific math requirements.

\*CCP (College Credit Plus) – college campus credit and/or online college math course.

**Pathway II** is for students with stronger math skills and is a more advanced college preparatory pathway. Students selecting this course of study should be performing in the upper 20% of math students statewide and should be able to maintain an A/B average in math. **Pathway II** includes the following class offerings:

5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Math 5/6	Math 6/7	Pre-Algebra	Algebra	Geometry	Algebra II	CP Alg Review, Pre-Calc, AP Stats, +CCM	Pre-Calc, CP Alg Review, AP Stats, +CCM, *CCP

+CCM (Career Center Math) – Some career center programs have program specific math requirements.

\*CCP (College Credit Plus) – college campus credit and/or online college math course.

**Pathway III** is designed for students who possess a natural math ability and a strong independent work ethic, can maintain an A average without tutoring and are performing in the top 10% of students statewide. This is a fast-paced aggressive pathway designed for highly focused students. **Pathway III** includes the following class offerings:

5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Math 6	Math 7 Pre-Algebra	Algebra	Geometry	Algebra II	Pre-Calc, AP Stats	CP Alg Review, AP Stats, +CCM, *CCP	CP Alg Review, AP Stats, +CCM, *CCP

+CCM (Career Center Math) – Some career center programs have program specific math requirements.

\*CCP (College Credit Plus) – college campus credit and/or online college math course.

### Algebra I

This course is designed to provide a strong foundation for all future work in mathematics. Algebra I is a comprehensive study of real numbers, evaluation of expressions, use of variables, ratios & proportions, percent of change, scientific notation, and relations & functions. This course provides a solid introduction to solving and graphing linear, quadratic, & exponential equations, working with exponents and radicals, evaluating and factoring polynomials, and solving and graphing linear systems. A graphing calculator is used, but not required for this course. (1.00 credit) **Prerequisite: Pre-Algebra or equivalent course**

## **Algebra II**

Algebra II consists of four major groups of study: (1) application of real number properties and introduction to the complex numbers; (2) formal study of relations and functions; (3) applications of relations and functions in problem solving; and (4) introduction to ideas and techniques important to the study of additional mathematics and applications. Other components of Algebra II include solving systems of several equations, solving complicated word problems, and an introduction to trigonometric analysis, imaginary numbers, and complex numbers. A scientific/graphing calculator is required for the course. (1.00 credit) **Prerequisite: Algebra I**

## **Geometry**

The focus of this course is primarily on the study of Euclidean Geometry while non-Euclidean Geometries are briefly mentioned and discussed. Topics covered include the logic and language of Geometry, properties of lines and angles, transformations of figures, relationships in triangles & quadrilaterals, circles, proportions & similarity, right angles & trigonometry, triangle congruencies, perimeters and areas, and three-dimensional figures. Emphasis is placed on definitions, postulates, theorems, and formal proofs. Equation solving skills learned from Algebra are necessary. A graphing calculator is used, but not required for this course. (1.00 credit) **Prerequisite: Algebra I**

## **Pre-Calculus**

Pre-Calculus promotes in-depth understanding of the concepts and mathematic thinking necessary for Calculus. The concepts are continually reinforced and applied to advanced topics such as analytic geometry and polar equations. Pre-Calculus is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra and geometry. Students will cover topics from all previous courses in-depth to help build a foundation for Calculus. This course also introduces basic calculus concepts. A scientific/graphing calculator is required for this course. (1.00 credit) **Prerequisite: Algebra I, Geometry and Algebra II**

## **College-Prep Algebra Review**

College-Prep Algebra Review is designed to give students a well-rounded review of many different math topics. Some topics may have been previously encountered, such as Algebra, Geometry, Measurement, and Probability/Statistics, while other topics may be new, such as Logic, Number Theory, Number History, and Financial Management. Initially, students are treated as traditional high school students with teacher-taught lessons and nightly homework. Later, students are treated as prospective college students with the responsibility of learning math and completing homework more on their shoulders. The ultimate goal of this class is to prepare students to test well on a college-level math placement test. (1.00 credit) **Prerequisite: Algebra I, Geometry and Algebra II**

## **Advanced Placement (AP) Statistics**

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data: Describing patterns and departures from patterns; Sampling and Experimentation: Planning and conducting a study; Anticipating Patterns: Exploring random phenomena using probability and simulation; Statistical Inference: Estimating population parameters and testing hypotheses. Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college statistics course. **Prerequisite: Pre-Calculus and/or permission of the Instructor.**

**See Ignitia Lab Course Descriptions for additional Math Elective course descriptions.**

## **College Credit Plus (CCP) courses that meet Math requirement at FCA:**

See the College Credit Plus section for course descriptions for the following Math CCP courses:

**MAT1410 Statistics & Analysis**

**3 semester hours/ 1.00 FCA credit**

**MAT2000 Calculus I**

**4 semester hours/ 1.00 FCA credit**

## MENTOR PROGRAM COURSE DESCRIPTION

This course is included in the FCA program as a means to fulfill a major aspect of the school's general philosophy: identifying the student's strengths and nurturing them in an effort to fully equip the student to fulfill God's will. It also exists to provide the student with a vehicle to think critically and productively. This program allows the student to be involved with mentoring opportunities within the ministry at FCA and the surrounding communities. Some areas are limited in the amount of students that can participate, and placement in an area may be limited to the supervisor's request. FCA Mentor class is graded on a pass/fail basis, which is calculated into the student's overall GPA and is determined by the evaluation of the student's Mentor Supervisor. This class may be taken for .25-1.00 credit based on hours in the program

## PHYSICAL EDUCATION/HEALTH COURSE DESCRIPTIONS

*.50 Physical Education credit required for graduation*

### Physical Education (Grades 7/8)

Physical Education in grades 7/8 stresses participation and instruction in a wide range of games and fitness activities. The results are skill development, an improved fitness level, socialization and cooperation among students along with a realistic attitude on the body's capabilities. The goal of the Physical Education Department is for each student to have a base knowledge in a variety of lifetime activities and the desire and the means to maintain a physically active and healthy life after the completion of the course. **Students in grades 7/8 can and are encouraged to receive high school credit by taking Physical Education during 7<sup>th</sup> and 8<sup>th</sup> grade.** (.25 credit per semester – 5 periods a week)

### Strength Training

This course is for the serious athlete and student eligibility is evaluated by the athletic department. It is an individualized program set to enhance the athletic ability and to promote growth of the student athlete. This course is strongly encouraged for students to build strength and speed as well as endurance for any varsity sport. This course may be taken as a repeat course for credit. (.50 year course or .25 for semester – this course can also have adjusted credit based on the number of days in the class which allows flexibility, especially for the athlete that is in the sport's season and may be doing additional training after school.)

### Ignitia Physical Education

FCA uses the Ignitia Computer Lab format for students to complete this graduation requirement. This can be accomplished during the regular school year or a student can take this during the summer for an additional fee. Physical Education is a semester-long elective designed for high school students. The course focuses on performance of individual and team sports, with explanations of proper technique, rules of the game, and preparation. Team sports introduced include soccer, basketball, football, baseball, and volleyball. An introduction to fitness, strength, endurance, and nutrition is also included. Students will have the opportunity to perform each sport on their own time, while keeping a log of activity. The goal is incorporation of activity into their daily lives and the gain of lifelong healthy fitness habits. (.25 – physical education credit)

### Ignitia Physical Education – Mini Course

Students who have not earned the full .50 credit of physical education in 7<sup>th</sup> and 8<sup>th</sup> grade may take an Ignitia Physical Education “Mini-Course”. This uses the Ignitia Computer Lab format and is tailored to the amount needed by the student. This “Mini-Course” can be taken during the school year or in the summer for an additional fee.

### Physical Education Waiver

To be exempted from the Physical Education requirements of Fairfield Christian Academy, the student must complete two full seasons of a high school sport, marching band or cheerleading. The two seasons must be completed by the end of the fall season in the student's senior year. No credit or grade will be issued for this waiver. Therefore, exempted students must also complete that one-half unit in another curricular area to fulfill graduation requirements according to the Ohio Department of Education. Should a student quit, be cut, or be unable to complete a particular season, that season cannot be used to meet the two-season requirement. This waiver only includes FCA interscholastic athletics, marching band, or cheerleading.

## **Health**

*.50 Health credit required for graduation*

FCA uses the Ignitia Computer Lab format for students to complete this graduation requirement. This can be accomplished during the regular school year or a student can take this during the summer for an additional fee.

High School Health is a health science elective course that introduces students to what good health is why good health is important, and what students should do in order to achieve good health. (.50 credit)

## **SCIENCE COURSE DESCRIPTIONS**

*3 credits required for graduation*

### **Physical Science**

Physical science is a college preparatory course that focuses on basic chemical and physical principles. These principles include the properties of matter, their interactions in molecular reactions, and the physical laws of energy and motion. Physical Science experiments will be performed as well as lecture and problem solving. (1.00 credit)

### **Biology (with Lab)**

Biology is a life-science college-prep course devoted to the study of living things in light of God's Work. This course is aligned with the newly revised Ohio Science Standards and provides opportunity for development of scientific inquiry, laboratory techniques, and an understanding of the fundamental principles of living organisms. Students will explore biological science as a process, the diversity of living organisms and their ecological roles, cell structure and function, genetics and heredity, evolution and classification with introduction to animal structure and function. (1.00 credit)

### **Chemistry (with Lab)**

Chemistry will cover physical behavior of matter in light of God's Word. This college preparatory course will primarily cover chemical interaction in the inorganic world but an introduction to organic chemistry will be given. Many relevant topics will be covered such as elements and their interactions, application of the periodic table, types of bonds, behaviors of solids, liquids and gases, stoichiometry, acids and bases, nuclear, and basic organic chemistry. (1.00 credit)

### **Physics (with Lab) (Honors)**

Physics will cover the way matter and energy interacts in light of God's Word. This college preparatory course will cover the natural laws God has put in place and make predictions based upon those laws. Physics starts by studying kinematics, Newton's laws, vectors, momentum and its conservation, work, energy and power, circular motion and satellite motion, static electricity, current electricity, waves, sound waves and music, light waves and color, reflection and refraction and the ray model of light. (1.00 credit)

### **Anatomy and Physiology (with Lab) (Honors)**

Anatomy and Physiology is a yearlong course that provides a comprehensive study of the structures and functions of the human body and their interrelationships. The areas covered will include medical terminology, basic organic chemistry, cell and tissue structure, and the 11 systems of the human body (integumentary, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary, and reproductive). Laboratory work includes comparative anatomy dissections of preserved specimens, microscopic study, and physiologic experiments. (1.00 credit) **Prerequisite: Successful completion of Biology is required**

## SENIOR PROJECT

*.50 credit required for graduation*

One of the expectations we at Fairfield Christian Academy have of our seniors is that each student completes the Senior Project Initiative. Its purpose is to not only challenge all students and raise expectations to improve achievement, but also to provide a capstone activity for seniors to demonstrate the essential skills they have before leaving high school. The senior project is an individual yearlong project in an area of personal interest to the student. Students work with a mentor on the project and the course culminates with the final presentation of the project to a review board in May. This course also allow seniors the opportunity to prepare for ACT/SAT testing, complete college and scholarship applications and help to prepare the student for life after high school. (.50 credit required for graduation). **Senior Project credit** – Students completing the minimum number of hours and requirements receive .50 credit required for graduation. Students with documented and logged project hours of 30 - 74 hours will receive .75 credit, and students with 75 or more documented and logged hours will be awarded 1.00 credit.

## SOCIAL STUDIES COURSE DESCRIPTIONS

*3 credits required for graduation*

All courses in the social studies area are taught from a Christian perspective with the basic premise that God has directed that written records be kept, that God wants us to know history, that God has a plan He is carrying to completion, that history is the progress of that plan, and that God is sovereign; no man or nation can overrule Him.

### World History

World History is a college preparatory course that begins with the study of the false beliefs of The Enlightenment and ends with current political events in Latin America. All students are required to participate in the National Day of History Competition. Novels such as *Animal Farm* and Wiesel's autobiographical *Night* are used to further solidify historical concepts. (1.00 credit)

### U.S. History

American History is a college preparatory course that begins with the opening of the west and ends with the 911 attacks. This course involves the extensive use of primary documents and their analysis (1.00 credit)

### Government

This course is a survey of the structure of the U.S. Government and its systems and political processes, focusing on constitutional structures and foundations. Students will study the structures, functions, and powers of government at the national, state, and local levels. Students will study these concepts through a Biblical Worldview to prepare them for responsible Christian civic duty. (.50 credit)

### Economics/Financial Literacy

Students will learn essential elements of Economics including the history of modern economics and organized ways that people have made and make a living, individually and as a society. Political and social standards will also be studied to show how deviating from God's precepts affects individuals, families, companies, cultures, and countries standard of living. Financial literacy is also covered in this course. (.50 credit)

### College Credit Plus (CCP) courses that meet a Social Studies requirement at FCA:

See the College Credit Plus section for course descriptions for the following Social Studies CCP courses:

<b>PSY1020 Introduction to Psychology</b>	<b>3-semester hours/1.00 FCA credit</b>
<b>SOC1020 Introduction to Sociology</b>	<b>3-semester hours/1.00 FCA credit</b>
<b>HIS2010 Western Civilization I: Ancient Age -Medieval Age</b>	<b>3-semester hours/1.00 FCA credit</b>
<b>HIS2020 Western Civilization II: Modern and Postmodern Age</b>	<b>3-semester hours/1.00 FCA credit</b>
<b>HIS2060 U.S. History1877 - Present</b>	<b>3-semester hours/1.00 FCA credit</b>
<b>POL2100 American Government</b>	<b>3-semester hours/1.00 FCA credit</b>

See Ignitia Lab Course Descriptions for additional Social Studies Elective course descriptions.

## **Ignitia – On-Line Course Descriptions**

Ignitia Online is a web-based learning environment featuring a media-rich, online curriculum. This Web-based curriculum can be accessed through any Internet connection and browser using a personal computer (PC) or Mac. Ignitia Online has a diverse, vibrant mix of entertaining lessons, assignments, and quizzes. Web links and off-computer projects create opportunities for in-depth study. Those students who select this option will be scheduled into a computer lab period during the school day to insure access to a computer and staff support. These courses are available 24/7 online so a student could use that lab time as a study hall as long as they keep up to date with the on-line course work.

### **Ignitia Business and Workplace Skills**

#### **Ignitia Business Computer Information Systems – (1.00 computer credit)**

Business Computer Information Systems is a high school elective that explores the use of technology applications in both business and personal situations. The course provides key knowledge and skills in the following areas: communication skills, business technology, word processing applications, spreadsheet applications, database applications, telecommunications technology, desktop publishing, presentation technology, computer networks and computer operating system.

The course is intended to help students arrive at the following understandings:

- Effective communications skills and productive work habits can increase employees' success.
- Technology solutions can help employees be more productive and effective.

**Prerequisite: Keyboarding skills**

#### **Ignitia Computer Science Principles - (1.00 computer credit)**

Computer Science Principles is a two-semester course that helps 11th- and 12th-grade students understand computing systems beginning with how they work on the inside and how they communicate with each other through networks to create the internet. Students learn how to program Python, an open-source programming language. They will plan and write original programs both on their own and as part of a team. Programming includes making mistakes, so students will learn how to write test cases that thoroughly test their programs. They will also learn how to handle errors that users make.

In this course, students also study the impact of computer science on the world around them. They investigate the digital divide and measures that can be employed to address inequities. Students learn about security issues and how they can be addressed. In every lesson, students will complete computer-graded assessments. Each lesson also includes at least one video animation and an interactive activity. Each unit contains at least two projects that require students to do research or solve a problem, often by writing an original program. The course ends with a culminating project that will require students to create a computing artifact.

#### **Ignitia Digital Literacy - (.50 – elective credit)**

This course provides a foundation to understanding key applications, computing fundamentals, and online living. It is one semester with seven units containing 48 instructional lessons and 1 project. Most lessons in this course are designed to take 1-2 days to complete, while most projects take 2-3 days.

#### **Ignitia Introduction to Computer Science - (1.00 computer credit)**

Introduction to Computer Science is a full-year course designed to give students an introduction to basic computer science knowledge and skills. Students will begin by understanding the history of computer science and will end with a look at extensions such as application programming interfaces (APIs), mobile apps, and artistic designs. Students will create a network design, a real-world data file analysis, a mock-up of a mobile app, and a computer game. Students will also investigate the social, legal, and ethical impacts of computers. Each unit in this course has ten lessons and at least one project. As students work through a lesson, they will answer one to three questions per section. Each unit has a project that allows students to create their own individual artifacts. Students will write programs, design computer networks, and much more. Each unit includes a unit review, four quizzes, and one test. The course also includes two semester exams and one final exam.

### **Ignitia Essentials of Business - (.50 – elective credit)**

This semester-long course is an introduction to the goals, processes, and operations of business enterprises. The focus is on the functions that a company – whether a multinational corporation or a corner grocery store – must manage effectively to be successful. These include accounting, finance, human resource management, marketing, operations management, and strategic planning. Attention is also given to the legal environment in which businesses operate, and the importance of business ethics and corporate citizenship.

### **Ignitia Keyboarding and Applications (.50 –computer credit)**

Keyboarding and Applications is a semester-long elective that teaches students keyboarding skills, technical skills, effective communication skills, and productive work habits. In this course, students will learn about proper keyboarding technique. Once students have been introduced to keyboarding skill, lessons will include daily practice of those skills. Students will gain an understanding of computer hardware, operating systems, file management, and the Internet. In addition, they will apply their keyboarding skills and create a variety of business documents, including word processing documents and electronic presentations.

## **Ignitia Career and Technical Education Courses**

### **Architecture & Construction:**

#### **Ignitia Construction Careers (.50 – elective credit)**

This course introduces students to the basics of construction, building systems, engineering principles, urban planning, and sustainability. Students will learn the key techniques in building all types of buildings, as well as the key individuals involved in each step of the process. Highlighted careers include hands-on construction positions such as carpenter, ironworker, mason, and plumber, but also those involved in the design of a building, such as architects and engineers, and those involved in the regulatory aspects of the built environment, including urban planners and building inspectors.

#### **Ignitia Introduction to Careers in Architecture and Construction (.50 – elective credit)**

The goal of this course is to provide students with an overview of careers in Architecture and Construction in order to assist with informed career decisions. This dynamic, rapidly evolving career cluster is comprised of three pathways (fields): Design and Pre-Construction (Architecture and Engineering); Construction (Construction and Extraction); and Maintenance and Operations (Installation, Maintenance, and Repair). The career cluster is defined as careers in building, designing, managing, maintaining, and planning the built environment. The built environment is not limited to buildings and structures—or to urban environments. A much broader view of the built environment helps students gain a better and more holistic understanding of the impact of the Architecture and Construction industries.

### **Business Management & Administration:**

#### **Ignitia Business Law (.50 – elective credit)**

A career course for students in grades 9-12, Business Law provides students with an understanding of the vital legal concepts that affect commerce and trade. After learning how laws are created and interpreted, students spend time exploring both the different types of businesses that can be created to engage in commerce and the contractual and liability considerations that can influence businesses. Throughout the semester-long course, students also study laws that affect how businesses are regulated and, in particular, what impact administrative rules and regulations have on businesses.

#### **Ignitia Career Management (.50 – elective credit)**

Designed for students in grades 9- 12, Career Management helps students improve important career skills that apply to a variety of occupations. Specific skills that are refined during the semester-long course include communication, leadership, decision making, problem solving, goal setting, and time management skills.

### **Ignitia Office Applications 1 - (.50 – computer credit)**

Office Applications I is a semester-length, high school elective that explores the use of application skills in Microsoft® Word®, Publisher®, and PowerPoint® 2013. Students will use these applications to design, develop, create, edit, and share business documents, publications, and presentations. This course provides key knowledge and skills in the following Microsoft Office® applications Word, Publisher and PowerPoint.

### **Ignitia Office Applications 2 - (.50 – computer credit)**

Office 2013 Applications II is a semester-length, high school elective course that explores the use of application skills in the 2013 versions of Microsoft® Excel® and Microsoft® Access®. Students will use these applications to design, develop, create, edit, and share business spreadsheet and database documents.

### **Ignitia Small Business Entrepreneurship (.50 – elective credit)**

This course is designed to provide the skills needed to effectively organize, develop, create, and manage a business while exposing one to the challenges, problems, and issues faced by entrepreneurs. Throughout this course, the student will be given the chance to see what kinds of opportunities exist for small business entrepreneurs and become aware of the necessary skills for running a business. The student will become familiar with the traits and characteristics that are found in successful entrepreneurs and will see how research, planning, operations, and regulations can affect small businesses. The student will learn how to develop plans for having effective business management and marketing strategies. The student will look at the steps relevant to starting a new business, which include financing, marketing, and managing.

### **Ignitia Technology and Business (1.00 – computer or elective credit)**

Technology and Business is a yearlong, high school elective that teaches students technical skills, effective communication skills, and productive work habits needed to make a successful transition into the workplace or postsecondary education. In this course, students gain an understanding of emerging technologies, operating systems, and computer networks. In addition, they create a variety of business documents, including complex word-processing documents, spreadsheets with charts and graphs, database files, and electronic presentations.

## **Education & Training:**

### **Ignitia Introduction to Careers in Education and Training (.50 – elective credit)**

The Introduction to Careers in Education and Training course will introduce students to the field of education and training, and the opportunities available for early-childhood care, primary school, secondary school, higher education, vocational training, and adult and continuing education. The students will gain an understanding of the career options available in teaching, administrative work, and support services.

### **Ignitia Teaching and Training Careers (.50 – elective credit)**

This course introduces students to the art and science of teaching. It provides a thorough exploration of pedagogy, curriculum, standards and practices, and the psychological factors shown by research to affect learners. In five units of study, lessons, and projects, students engage with the material through in-depth exploration and hands-on learning, to prepare them for teaching and training careers. Students are given many opportunities to be the teacher or trainer and to explore the tasks, requirements, teaching strategies, and research-based methods that are effective and high quality.

## **Finance:**

### **Ignitia Banking Services Careers (.50 – elective credit)**

This semester-long elective goes beyond a survey of careers within the banking industry to explore the services banks offer and how they operate. Throughout the course, students in grades 9-12 gain the skills and confidence required to land their dream job within the market. Topics of study during the semester include different types of financial reports and how they are used, different types of banks and how they are structured, the lending process, bank products, customer relationships, financial planning services, and banking careers.



### **Ignitia Introduction to Careers in Finance (.50 – elective credit)**

During this semester-long course, students in grades 9-12 receive an overview of the finance industry and the services that different sectors provide. Specific topics of exploration include investments, equity, risk and return, corporate finance, financial statements, capital budgeting, banking, risk management, and insurance. As the course explores these topics, students receive an inside look at the different careers in finance that serve those sectors and gain the skills and confidence required to land their dream job within the market.

### **Government & Public Administration:**

#### **Ignitia Introduction to Careers in Government and Public Administration (.50 – elective credit)**

This course will provide students with an overview of American politics and public administration, including how political institutions and public management systems at the local, state, and federal levels exercise supervisory authority and maintain accountability. Students will learn about the foundations of the U.S. government, the separation of powers, the federal civil service system, and the relationship between the government and state and local officials. They will also learn about governmental powers of the states and of local governments, such as education, law enforcement, and transportation.

### **Health Science:**

#### **Ignitia Careers in Allied Health (.50 – elective credit)**

Explore the professional opportunities available within the field of health care. This course provides students with an overview of occupations in several different branches of the health care system. The semester-long high school elective is ideal for those interested in learning more about nursing, physical therapy, dietetics, and other careers in health care.

#### **Ignitia Nursing: Unlimited Possibilities and Unlimited Potential (.50 – elective credit)**

This course provides students opportunities to compare and contrast the various academic and clinical training pathways to an entry-level position in nursing and to explore the growing number of opportunities for professional advancement given the proper preparation and experience. Students will have several opportunities to learn about the expanding scope of professional practice for registered nurses and better understand the important changes proposed in the education and ongoing professional development of nurses.

### **Human Services:**

#### **Ignitia Introduction to Consumer Services (.50 – elective credit)**

In this course, students will analyze various career paths in terms of employment opportunities. Educational requirements, including applicable hard and soft skills, certifications, and licensures for different pathways, will be discussed. Developing research, analytical, and presentations skills will be key components. This course is designed as an overview to prepare students for a consumer services–related career and to introduce them to specialty areas. Emphasis is placed on the human services aspect (vs. corporate concerns) of consumer services, as well as Biblical principles and standards. Social issues and advocacy, as well as ethics and legalities, are a recurring theme. Students will gain knowledge of current issues affecting various consumer services professions and of the impact of local, state, national, and global issues on consumer services.

### **Information Technology:**

#### **Ignitia Fundamentals of Computer Systems (.50 –computer credit)**

This course will provide students with an understanding of computers and how they operate as well as a basic understanding of how to manage and maintain computers and computer systems. These skills will provide students with the ability to configure computers and solve computer problems. They will learn to identify hardware devices and their functions. Students will learn about networking and the Internet. They will also be introduced to security issues in order to protect themselves and their computers and data. Students will also learn about some of the software applications typically used on computers today. In addition, students will learn specifics about maintaining and troubleshooting computers, including managing files, backing up systems, and using the administrative tools in the operating system.

### **Ignitia Fundamentals of Digital Media (.50 – fine arts or computer credit)**

This course gives an overview of the different types of digital media and how they are used in the world today. Students examine the impact that digital media has on culture and lifestyle. The course reviews the basic concepts for creating effective digital media and introduces a number of different career paths that relate to digital media. Students will examine some tools used to create digital media and discuss best practices in the creating of digital media. In the course, students will examine the use of social media, digital media in advertising, digital media on the World Wide Web, digital media in business, gaming and simulations, e-commerce, and digital music and movies. Students will review ethics and laws that affect digital media use or creation.

### **Ignitia Fundamentals of Programming and Software Development (.50 –computer credit)**

This course will provide students with an understanding of basic software development concepts and practices, issues affecting the software industry, careers within the software industry, and the skills necessary to perform well in these occupations. Students will learn details about core concepts in programming using Java, including writing and debugging code, proper syntax, flow of control, order of operations, comparison operators, and program logic tools and models. They will learn the function of key program techniques including if statements, looping, and arrays; web development using HTML and drag-and-drop development of user interfaces in an Integrated Development environment; and different programming languages and paradigms.

### **Ignitia Introduction to Information Technology (.50 –computer credit)**

In this course, students are introduced to the knowledge base and technical skills that will help them to successfully compete for jobs within the Information Technology Career Cluster. Lessons are structured so that students learn and then demonstrate not only critical assessment and analytic skills, but also interpersonal skills that are valued so highly among IT employers. Students explore a range of career tracks that include network engineers, application/programming developers, and systems analysts.

### **Ignitia Introduction to Information Technology Support and Services (.50 –computer credit)**

This course focuses on real-world application including common industry best practices and specific vendors that offer tools for technicians, project managers, and IT leadership. Emphasis should be made that the purpose of the IT department of an enterprise is to support the overall mission of the company, and it is not simply a stand-alone component of the company's infrastructure. Students will apply their knowledge of hardware and software components associated with IT systems while exploring a variety of careers related to IT support and services. Students will analyze technical support needs to perform customer service, perform configuration management activities, and evaluate application software packages and emerging software. Students will demonstrate and apply knowledge of IT analysis and design by initiating a system project and evaluating applications within the IT system. Information Technology is a dynamic discipline that is continuously evolving.

### **Ignitia Introduction to Network Systems (.50 – computer credit)**

The course explores a good deal of technology, specifically the software and hardware supporting LANs, WANs, and Wi-Fi networks. Particularly important are the protocols in the TCP/IP stack that are used to communicate across a network, but the students are also introduced to the hardware, including hubs, switches, bridges, routers, and transmission media. The student is expected to learn that a network is not some mysterious idea out there in cyberspace. It is a mechanism that is fully dependent on its parts working properly. Once the students understand the fundamentals of the layers and network hardware, they can be introduced to questions of security, network management, and network operating systems.

### **Ignitia Network System Design (.50 – computer credit)**

This course will provide students with an understanding of computer networks and how they operate, as well as a basic understanding of how to manage and maintain computer networks. Students will learn the basics of network design, including how to identify network requirements and determine the proper network architecture. They will be instructed on the requirements of network models, as well as be introduced to local area networks. Students will also learn about Internet Protocol and the basics of routing data on a network. Students will be introduced to wide area networks and network security issues. In addition, students will learn about network

management, including monitoring and troubleshooting. Last, students will learn about network operating systems and their role in connecting computers and facilitating communications.

**Ignitia New Applications: Web Development in the 21st Century (.50 – computer credit)**

New Applications introduces students to the rapidly evolving world of apps, or applications. The introduction of the Apple II in 1977 followed by the IBM PC and scores of compatible computers just four years later created strong consumer demand for software programs, as these applications were referred to at the time. The explosive growth of the Internet that followed at the beginning of the twenty-first century with the introduction of high-speed networking, the dynamic World Wide Web, and most recently the development of affordable smartphones and web tablets have all contributed to global, cultural, and societal change.

**Ignitia Software Development Tools (.50 – computer credit)**

This course introduces students to the variety of careers related to programming and software development. Students will gather and analyze customer software needs and requirements, learn core principles of programming, develop software specifications, and use appropriate reference tools to evaluate new and emerging software. Students will produce IT-based strategies and a project plan to solve specific problems, and define and analyze system and software requirements.

**Marketing:**

**Ignitia Careers in Marketing Research (.50 – elective credit)**

Marketing research is the foundation of all marketing activities because it provides the data needed to make key strategic decisions about products, promotions, pricing, and other key organizational decisions. This course will provide information about the process of investigation and problem analysis by using research to produce key marketing statistics that are communicated to management and used throughout the organization. This course concludes with the execution, interpretation, and presentation of marketing research.

**STEM:**

**Ignitia Engineering and Design (.50 – elective credit)**

Engineering and Design is part of the STEM (Science, Technology, Engineering, and Mathematics) education and career path. By building real-world problem-solving and critical-thinking skills, students learn how to innovate and design new products and improve existing products. Students are introduced to the engineering design process to build new products and to the reverse engineering process, which enables engineers to adjust any existing product. A second and equally important emphasis will address how fluid power is used by engineers to make difficult maneuvers easier, increasing efficiency and minimizing effects on the environment.

**Ignitia Engineering and Product Development (.50 – elective credit)**

Engineers address society's needs and problems by designing and producing products and services. The field is diverse and includes professionals who design skyscrapers, design machinery, oversee public works, and develop software and systems. The purpose of this course is to provide an overview of the concepts of product engineering and development. Students will analyze the life cycle of a product to prepare it for distribution and target markets. The course begins with building an understanding of the product life cycle, from the initial idea to drafting requirements to using 3-D modeling tools and other design tools. The final unit focuses on assembling project plan pieces for a product and evaluating the plans for a successful product launch.

**TRANSPORTATION, DISTRIBUTION & LOGISTICS:**

**Ignitia Careers Logistics Planning and Management Services (.50 – elective credit)**

This course discusses careers in Logistics Planning and Management, and provides students with the history of logistics and recent advances in the field. Current trends in logistics favor low-cost methods, safety, technology, sustainability, and regulations to keep the goods flowing from their source to the consumers. Logistics is a high growth industry, and is a stable career choice. There is something for every career-seeker, ability, and experience level. The objective of this course is to introduce the student to the field of logistics planning and management and to explain the career opportunities that are available in this field.

### **Ignitia Introduction to Careers in Transportation, Distribution and Logistics (.50 – elective credit)**

Transportation and Distribution Logistics is a course intended to introduce students to the complicated world of commercial transportation. This area of commerce is becoming increasingly complex and sophisticated, with work and career openings available at all levels of education. Most people, however, see only fragments of the big picture. Transportation is among the most crucial and defining elements of modern commerce.

## **Ignitia On-Line Elective Courses**

### **Ignitia American Literature - (.50 – English elective credit)**

American Literature is a five-unit elective that engages high school students in a literary conversation with some of the most colorful and influential minds in American history. Their words will give students a greater understanding of themselves, their culture, and the ideas of others. The course teaches students the various movements in American literature, starting with the roots of American literature in writings from the Puritans. The course concludes with works by Dr. Martin Luther King, Jr., and other black writers who were part of the struggle for racial freedom during the civil rights era.

### **Ignitia British Literature (.50 – English elective credit)**

Beginning with works from the Middle Ages, British Literature is a five-unit course that teaches high school students about some of the greatest books of Western Civilization. Students will learn how to appreciate the English literature of the Middle Ages for its wisdom and beauty and will gain a better understanding of the development of the English language and its literature. Course units cover one to two centuries, concluding with the writings of apologist C.S. Lewis in the 20th century.

### **Ignitia Christian Faith and Living – (1.00 Bible elective credit)**

Christian Faith and Living applies what students have learned in their study of the teachings of the Old and New Testaments. The course focuses on personal Christian ministry, the nature of God, comparative religions, and the writings of James, John, David, Solomon, and Daniel. These areas target three content strands: the attributes of God, biblical literature, and Christian growth.

### **Ignitia College Planner (.50 –elective credit)**

This semester-long course helps high school students to find their way through the complex business of choosing post-secondary options, college entrance requirements, financial planning, and considering non-educational career options. Filled with ideas, instructions, and inspiration to seek God's will, this course is practical and encourages students to think critically and independently. As a part of a complete learning management system, college planner is a self-directed elective infused with technology-based tools, and exercises to prepare students for college. Like all Ignitia courses, biblical references support the development of a Christian worldview and encourage practical Christian living.

### **Ignitia Essentials of Communication/Speech- (.50 – elective credit)**

Essentials of Communication: A Guide to Interacting Effectively in Today's World™ is an elective course for high school students. The materials cover fundamentals of the communication process important for successful interaction in a variety of social and professional settings. Students can use the course to gain and apply knowledge about communication theories, characteristics of language and language use, interpersonal relationships, group dynamics, and public speaking in order to interact more effectively with others. Students will be better equipped to use communication to hone other life skills, including exchanging information, fulfilling social obligations, developing relationships, and understanding and meeting the needs of others.

### **Ignitia Earth Science- (1.00 – science elective credit)**

Earth Science is a high school science course that explores Earth's structure, interacting systems, and place in the universe. The course uncovers concepts and processes found in:

- astronomy – Earth's place in and interaction with space,
- geology – physical structure and dynamic processes,
- meteorology – atmosphere, weather and climate, and
- Oceanography – oceans and marine life.

### **Ignitia Family & Consumer Science (1.00 elective credit)**

Family and Consumer Science is an elective that uses biblical principles to help high school students develop positive self-esteem and learn to successfully navigate relationships with family, friends, coworkers, and even those in the marketplace. The curriculum introduces students to character and appearance from a biblical perspective. The material also teaches about nutrition, clothing styles, home care and hospitality, personal finance, and child development and care.

### **Ignitia Foundations for Living (1.00 elective credit)**

Foundations for Living is an elective for high schools students. Designed specifically with 11th and 12th grader in mind, Foundations for Living provides a Bible-based, sequential development of a Christian worldview using fundamental truths from the Bible and the application of biblical principles to the various areas of contemporary life. The course aims to pull all of a student's education together into a unified whole, preparing them for new adventures beyond high school in the home, church, college, and society.

### **Ignitia Personal Financial Literacy (.50 – elective credit)**

Every Christian student should understand financial responsibility and money management from a Christian perspective. This semester-long elective prepares your high school students to make thoughtful and effective financial decisions throughout their lives. As with all Ignitia courses, interactive, multimedia-rich lessons teach students to explore career options from a monetary perspective, create a budget, assess financial information, and plan for their future. Ignitia Personal Financial Literacy gives your students practical advice and skills for living in today's world. This course is strongly recommended for juniors and seniors.

### **Ignitia New Testament Survey – (1.00 Bible elective credit)**

New Testament Survey provides a developmental and in-depth academic study of the teachings of the New Testament from the Intertestamental period (prior to the birth of Christ) to the book of Revelation. The survey emphasizes the most important people, places, and events in the development and expansion of the Church. The course also includes material on Christian suffering, witnessing, and the will of God. New Testament Survey targets four major strands: theology, biblical literature, biblical background, and Christian growth.

### **Ignitia Old Testament Survey – (1.00 Bible elective credit)**

Old Testament Survey provides a developmental and in-depth academic study of the teachings of the Old Testament, from the creation of the world (Genesis) to the restoration of Israel and the ministry of its post-exilic prophets (Malachi). The survey emphasizes the most important people, places, and events in the development and decline of the nation of Israel. These areas target three content strands: theology, biblical literature, and biblical background.

## **Ignitia On-Line Fine Arts Courses**

### **Ignitia Fundamental of Digital and Online Media - (.50 – fine arts or computer credit)**

Fundamentals of Digital Media presents an overview of the different types of digital media and how they are used in the world today. This course examines the impact of digital media on culture and lifestyle, reviews the basic concepts for creating effective digital media, and introduces a number of different career paths related to digital media. Students learn about the tools used as well as the best practices employed for creating digital media. This includes an overview of the new media creation process and the basic concepts of project management. In this course, students explore topics such as the use of social media, digital media in advertising, digital media on the World Wide Web, digital media in business, gaming and simulations, e-commerce, and digital music and movies. Students also review the ethics and laws that have an impact on digital media use and creation

### **Ignitia Music Appreciation - (.50 – fine arts credit)**

The goal of this semester-long course is to provide instruction in basic musical elements, trace the development and growth of classical music and give students a strong foundation for a greater appreciation of music. Students will examine music in the world around them and discover how they experience music. They will be introduced to the basic elements and sounds of music and instruments. Students will learn the names and backgrounds of several famous musical composers and will learn how and where classical music began, how it developed over the centuries and the ways in which music and culture affect each other. Lastly, students will examine the ways modern music has been influenced by classical music. This course also provides students with lessons in engaged listening. These special lessons allow students to listen and respond to music. A template for how to listen and respond is provided.

### **Ignitia Music Theory (.50 – fine arts credit)**

Music Theory is semester-long fine arts elective for students. The course requires no prior instrumental, vocal, or music theory study. Using the piano keyboard as a visual basis for comprehension, the course materials explore the nature of music, integrating these concepts: rhythm and meter; written music notation; the structure of various scale types; interval qualities; melody and harmony; the building of chords; transposition. Ear training exercises are interspersed in the lessons with the bones of composition technique, building in students the ability not only to hear and appreciate music, but step-by-step to create it in written form. This highly interactive course culminates in the student producing original compositions, which while based on standard notation, demonstrate facets of personal expression. As the students' ability to perform increases in the future, they will better understand music and better demonstrate its intrinsic communication of emotion and ideas.

## **Ignitia On-Line Mathematics Courses**

### **Ignitia Consumer Math - (1.00 – math credit)**

Consumer Math is an introduction to the many ways in which math can be used in everyday life. The course gives practical advice on how to handle situations that involve money and math principles. Consumer Math focuses on the basic skills and methods of arithmetic and provides students the opportunity to develop experience with algebraic techniques of evaluating variables and equations, including geometric formulas and interest equations. Students will also be introduced to topics in statistic.

### **Ignitia Probability and Statistics A (.50 – math credit)**

Semester A of Probability of Statistics is designed to give 11th- and 12th-grade students an overview of basic concepts of statistics, with an emphasis on descriptive statistics. The semester begins with the key concepts of data, samples, and populations. Students will create visual representations of data sets, such as histograms and bar graphs. Students will describe the central tendency and spread of data for a data set. Students will look for patterns in a data set and determine models based on those patterns.

### **Ignitia Probability and Statistics B (.50 – math credit)**

Semester B of Probability and Statistics is designed to give 11th- and 12th-grade students a more in-depth look at statistics and its many applications, with an emphasis on inferential statistics. Students are also introduced to advanced counting techniques as well as probability and its applications.

### **Ignitia Trigonometry (.50 – math credit)**

This course teaches students to develop trigonometric formulas and use them to solve real-world problems. Topics include right angle trigonometry, sines and cosines, vectors, polar coordinates, graphing, and complex numbers. The course units include text-based lessons, on and off-computer exercises, special projects, learning games, quizzes, and tests that appeal to today's digital generation and help teachers to evaluate progress and mastery of the materials. **Prerequisite: Algebra II**

## **Ignitia On-Line Social Studies Courses**

### **Ignitia Civics - (.50 –social studies elective credit)**

In this elective, high-school students will learn about the rights and responsibilities of being an American citizen. By studying different forms of government, students will investigate what motivated America's founding fathers as they drafted the U.S. Constitution. Students will also learn about the branches of the U.S. government as laid out in the Constitution and about the structure of state and local governments. In each unit, students will complete an in-depth project related to that unit's topic.

### **Ignitia Psychology (.50 – elective credit)**

Psychology is an introductory elective course for high school students. Throughout the course, students will examine influences on human actions and beliefs, factors influencing behavior and perception, and basic psychological theories. Students will develop and apply their understanding of psychology through lessons and projects that require interaction and observation of others.

### **Ignitia Twentieth Century American History (.50 – social studies elective)**

Twentieth Century American History is a history elective for high school students interested in examining American history during a century of change, continuity and conflicts. Students will examine America's economic, political, governmental, cultural, and technological growing pains during the twentieth century. They will also consider the causes and effects of national and international cooperation, competition, and conflict. In attaining these goals, students will develop insight and perspective on the themes and patterns of history and a greater understanding of today's world.

### **Ignitia Vietnam Era – (.50 – social studies elective)**

This course covers the Vietnam Era that for many represents a difficult time in U.S. history. This course will cover the history of the Vietnam War, why the United States got involved in the conflict and why the United States failed to achieve its objectives.

### **Ignitia World Geography - (1.00 – social studies elective)**

World Geography takes students on a journey around the world in which they will learn about the physical and human geography of various regions. They will study the history of each region and examine the political, economic and cultural characteristics of the world in which we live. Students will also learn about the tools and technologies of geography such as globes, maps, charts, and global information systems. Students will also gain practice in writing and note taking. They will be asked to create graphic organizers, conduct research, analyze information, and write essays on topics such as current events, energy resources, and national parks.

## **Ignitia On-Line Test Prep Courses**

### **ACT Test Preparation - (.50 elective)**

High school students prepare for the ACT and success in college with this test prep course. The class provides students with an orientation to the exam and covers the essential components found in all current ACT prep materials. Highlighting everything from registration to study strategies, the online course includes modules and practice tests for English, math, reading, science, and writing. The course also includes access to videos filled with helpful reviews and study tips. This course utilizes the ACT test scoring and therefore will be graded on a Pass/Fail basis.

### **Ignitia Essentials of Mathematics (Test Prep) - (.50 – elective credit)**

A refreshing alternative to traditional textbooks, this seven-unit online course was created for students who need to review their math skills or reinforce fundamental math concepts. This math elective can be used to provide additional practice or remedial instruction, or to challenge advance learners. As a part of a complete learning management system, Ignitia Essentials of Math is a self-directed elective infused with technology-based lessons, tools, and exercises to enrich learning for students and streamline instruction and administrative tasks for teachers.