



Course Descriptions 2016-2017

<u>Subject Area</u>	<u>Page</u>
English and Literature	2
Writing	3
Art and Design	5
Foreign Languages	6
Social Sciences	8
Mathematics	10
Natural Sciences	12
Other Studies	14

Centreville Home School Enrichment Support Services

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English and Literature

American Literature – Honors option available

Grades 10-12* (younger students with instructor's permission) | Instructor: John Jenkins | Class meets 33 times

American Literature is not only an essential element in being prepared for the rigors of high school and college thinking, but in obtaining a critical insight to the importance of classic literature in our lives both as students and adults. Drawing from *Norton Anthology of American Literature* and Stobaugh's *American Literature: Encouraging Thoughtful Christians To Be World Changers*, this class will explore a broad range of genres, including forays into plays and poetry, in each of the major literary periods that frame the authors lives, their times, and their themes as related to the growth and development of our nation through five time periods: prior to 1820, 1820-1865, 1865-1914, 1914-1945, and 1945 to present.

In this class, students will learn 1) the historical context of American Literature from the founding of our nations to the 20th century, 2) the themes and worldviews of the authors, 3) the fundamentals of literary analysis (including literary devices) and apply their knowledge through class discussions and presentations, short and long answers. This class can be taken as an honor's class with additional reading, research and writing required.

Beginning Literary Analysis

Grades 7-9 | Instructor: Gill Kalbskopf | Class meets 33 times

This class is based on techniques from "Teaching the Classics" by Adam and Missy Andrews of The Center for Literary Education. It uses the Socratic Method (asking questions) for analyzing and studying literature. In order to grasp the concepts of content, structure, and style, which are common to all works of fiction, the students will begin by reading and analyzing children's books, well below their reading level, with stories that are clear, simple, and easily understood. Through these books, the students will learn to identify the five elements of fiction: theme, setting, characters, plot, and conflict. Once they have grasped these concepts using elementary level books, they will advance to reading and analyzing books that are on grade level. In addition, students will analyze poetry, and, throughout the course of the year, they will learn a variety of literary terms.

English 9

Grade 9 | Instructor: Theresa Powell | Class meets 33 times

Students who enroll in this class should be prepared to accomplish weekly assignments in the areas of grammar, vocabulary, writing, and reading. We will read, discuss, and evaluate four novels. Vocabulary enhancement will be a part of our weekly schedule. This will include fun and challenging games. Each week we will cover and build a solid foundation in the area of grammar using a grammar skills curriculum. Five paragraph essay writing will be incorporated throughout the course. Approximately four hours of homework each week.

English 10

Grade 10 | Instructor: Theresa Powell | Class meets 33 times

Along with grammar review, reading three novels, and vocabulary enhancement, this course will include a six week study of famous American poets, to include a creative project. Writing persuasive and informative essays will be sprinkled throughout the course. Challenging learning games will be incorporated into the class. Four to five hours of homework will be assigned each week.

English 11

Grade 11 | Instructor: Theresa Powell | Class meets 33 times

This course will provide each student an opportunity to create, plan and present an oral and visual presentation to the class pertaining to a specific author. In addition to this project, students will be required to complete weekly grammar reviews and vocabulary lessons from selected curriculum. The spring semester will focus on a unit study of Greek Mythology. Four to five hours of homework may be required for this class.

English 12

Grade 12 | Instructor: Theresa Powell | Class meets 33 times

Shakespeare and the Elizabethan period will be the focus for our seniors for the fall semester. Reading and understanding Henry V and preparing for our own Elizabethan festival, will consume much of our class time. We will balance out our meetings with vocabulary review, grammar review, and writing assignments. The spring semester will find us reading and learning much about the American short story and various authors. Four to five hours of homework will be assigned each week.

World Literature – Honors option available

Grades 10-12* (younger students with instructor's permission) | Instructor: John Jenkins | Class meets 33 times

World Literature is an essential element in being prepared for the AP Literature exam and in obtaining a critical understanding of the role of classic literature in our culture. Key student text: Stobaugh's World Literature. Key student websites: classics.mit.edu.com, and Norton World Lit Online. Students will explore a broad range of literary genres and themes through systematic forays into poetry, narrative, plays, and novels, including works such as *Gilgamesh*, *The Odyssey*, *Meditations* by Marcus Aurelius, *Journey to the Center of the Earth*, *Les Miserables*, *One Day in the Life of Ivan Denisovitch*, plus additional short stories and novellas from Tolstoy, Chekov, and others.

Students will learn 1) the historical context of World Literature from antiquity to the 20th century, 2) the thematic/worldviews focus of the authors, and 3) the fundamentals of literary analysis (including literary devices) and apply their knowledge through class discussions/presentations, basic and advanced essay writing, and literary vignettes/poems.



Writing

Basic Writing IEW: Structure and Style

Grades 7-9 | Instructor: Gill Kalbskopf | Class meets 33 times

Using the method described in the Institute for Excellence in Writing's "Teaching Writing: Structure and Style," students will learn structural models for different types of writing including note taking and outlining, summarizing from notes, writing narrative stories, creative writing, critiques, and organizing and writing research reports. In conjunction, students will learn a variety of stylistic techniques to incorporate into the structural models which will enhance their writing skills. As they are instructed in the stylistic techniques, students will come to understand the grammar associated with each one. Primarily designed as a beginning writing class for junior high students, this class adds depth and richness for those students who enjoy writing by offering new ideas and suggestions while encouraging and motivating those who struggle or currently despise writing.

Creative Writing

Grades 7-12 | Instructor: Betsy Dill | Class meets 33 times

Prerequisite: Student's writing sample

Advanced instruction in creative writing for "self-starters," who have an aptitude for writing and dream of being published someday. Primarily fiction; purposely fun! Students write: short stories, a simple children's book, a one-act play, an infomercial, and a mini "documentary" script on the subject of their choice. They will also polish work in their favorite genre. May prove too frustrating for students who struggle with learning difficulties. Sample of writing required. Participation in NaNoWriMo (meeting an individualized word count goal that each student sets during the entire month of November) and submissions to national writing contests and publications are encouraged but not required. Laptops or iPads encouraged in the classroom.

Effective Writing 7-9 plus Writing for Literature

Grades 7-9 | Instructor: John Jenkins | Class meets 33 times

Intro to Effective Writing will prepare your students for the rigors of effective essay writing. This class incorporates the same academic and professional techniques that develop a student's critical thinking, organizing skills, and effective communication through essays.

Students will learn how to 1) take notes, 2) conduct research on the internet, 3) organize information, 4) document sources including footnoting, 5) write effective sentences and paragraphs using basic grammar, spelling, capitalization rules, plus formatting skills such as double-spacing, indents and setting margins. Using these basic skills, the students will then learn how write effective essays.

Effective Writing 9-12 plus SAT Essay Prep - Honors option available

Grades 9-12 | Instructor: John Jenkins | Class meets 33 times

Effective Writing is an honors-optional class teaching college and professional writing techniques that develop a student's critical thinking, research and organizing skills, natural writing voice, and effective communication through essays. Class includes SAT timed essay preparation and practice.

Students will learn how to: 1) research and select effective essay/paper topics, 2) organize, plan, and structure a paper, 3) understand and avoid plagiarism through documenting sources with footnotes, 4) write and rewrite a paper using accepted college formats, and 5) use techniques for developing original thinking so that every paper is written with purpose. This class can be taken as an honor's class. Additional reading, research and writing required.

Journalism 101

Grades 8-12 | Instructor: John Jenkins | Class meets 33 times

Journalism 101 provides essential writing and thinking skills for high school, college and beyond by developing a student's natural voice while deepening their practical use of effective writing principles through time-tested professional writing techniques in the writing of news and feature stories for both current and historical time periods.

Journalism 101 will enable your student to brilliantly stand out against a bland background of typically mundane high school and college student writers. Students will learn: 1) notetaking and organizing skills, 2) listening and research skills, 3) effective writing skills, 4) natural voice, and most importantly, 5) effective communication skills.



Art and Design

3-D Art

Grades 7-12 | Instructor: Betsy Dill | Class meets 33 times

Three-dimensional objects can be measured in three different directions (height, width, and depth). In this course, they will be hand-made objects or spaces that communicate or explore ideas and/or emotions. Subtractive and additive figures (clay/wire), natural materials, foam core, cardboard, chipboard, clear or plaster tape casts, soft sculpture, etc. Special Christmas and Mother's Day projects. This is art for the hands-on artist whose strength and interests are in construction. Each year a number of different projects are introduced. No holiday homework assigned.

Creatives (Studio Art I)

Grades 7-12 | Instructor: Betsy Dill | Class meets 33 times

Studio art involves instruction in classic art techniques using different media. This class is for those with prior art training as well as those who want to try it for the first time. Projects in this course: composition and design, drawing, painting, a touch of art history (just the interesting parts), portraits, animal art, landscapes/seascapes, sculpture, book, poster, or magazine illustration. Acrylic paint, watercolors, oil pastels, pencil, India ink line work, Chinese brush paintings, clay, weaving. Special Christmas and Mother's Day projects. Different projects each year, no holiday homework. Relates somewhat to Va. SOL, "ART 1: Art Foundations."

Drawing In Depth

Grades 7-12 | Instructor: Betsy Dill | Class meets 33 times

In-depth study in realism, finishing techniques, shading and highlighting, simple anatomy, composition, elements of design, simple perspective, color theory. Emphasis is on developing a personal style. Line work with pencils, Conte crayon, charcoal, pen & ink, Egyptian reed pens, markers, etc. Human & animal portraits, Cartooning/caricatures, personal self-portraits, design work, special projects. Students continue work begun in class as homework. Relates to the drawing aspects of Va. SOL, ART 1: "Art Foundations" but open to those with prior art training to develop more fully. Different projects each year, no holiday homework.

Hands on Art History

Grades 7-12 | Instructor: Dee Dee Kintzing | Class meets 33 times

This class is a survey of Art History with hands-on studio reinforcement. Students learn drawing and painting terminology & techniques, color theory, and how to employ composition, form, line, and abstraction through the study of particular artists and periods of art history.

Studio Art II

Grades 7-12 | Instructor: Betsy Dill | Class meets 33 times

Advanced instruction in classic art techniques in more depth than The Creatives using different media and more time to polish projects. We continue to work with acrylic paints, watercolors, clay, block printing, collage, Batik or silk-screening, construction, more. The class is non-competitive, but students are urged to strive for excellence. Most projects are worked on in several classes and finished as homework. There is a strong emphasis on polishing the projects. If desired, 9-12 grade students can work an individualized plan to include (Visual) "Art II: Intermediate"; "Art III: Advanced Intermediate"; or "ART IV: Advanced" credit (using Va. SOL terminology), even while working in the same class. Special Christmas and Mother's Day projects. Different projects each year and no holiday homework.



Foreign Languages

Introduction to French C

Grades 7-9 | Instructor: Mary O'Donnell | Class meets 33 times

Please note: If you're considering French I for your student please see the document on the website that would help you determine whether French I, or Introduction to French would be better for your student.

This super fun, interactive, academically slow-paced class has two main goals: to introduce younger students to some of the French vocabulary they will need for French I and to review grammar concepts that will enable easier transition into a foreign language.

This is a perfect class for those students who struggle with grammatical concepts or for those whose parents suspect might struggle in a beginning language course either now or in the near future. Students learning a foreign language for the first time can be overwhelmed by the amount of vocabulary to learn and by their inability to connect their understanding (or lack of understanding) of English grammar to the workings of French (or other foreign languages). This highly participatory class will introduce French language, some culture, correct pronunciation, and some history and geography through a variety of fun media including games, songs, and various interactive methods. There will be homework assignments and two very low-key oral geographical reports, and a famous French person visual report (all reports are in English at this stage). Parents will be required to re-teach concepts to their student as needed (ANY parent can easily do it- it's in English and simple) so that these typically younger students have all the resources they need to succeed. All of the curriculum will be in the form of handouts and CDs written by the teacher. References and insight about this class and upper level French classes from former parents/students are available upon request. Copy and material fee is \$35

French 1

Grade Level: 9-12 (8th by permission) | Instructor: Mary O'Donnell | Class meets 66 times

Time: 2.5 hours / week (Note: you are not charged for the extra .5 hr)

Prerequisite: purposed review of English grammar before classes begin (specifics available on website)

If you're considering French I for your student please see the document on the website that would help you determine whether French I, or Introduction to French would be better for your student.

Did you know that 60% of our English languages comes directly from French? This comprehensive French course, based in a Christian worldview/perspective, and taught by a relatively native speaker uses BJU *French I* materials and will include additional reading assignments, activities, and simple book reports. My goal is to equip students to communicate clearly and effectively to those in francophone countries (FYI: there are about 50+ countries where French is spoken over 7 continents!), to give them an appreciation for the French language and culture, and to improve their English vocabulary and language skills in preparation for the SATs. *I provide almost all the books needed for a rental fee of \$10 per item (first come basis) or you may purchase them all on your own for over \$200.* This is a FUN, interactive class with many games and oral exercises to encourage memorization and oral fluency, BUT *it is also fast-paced and academically rigorous.* For this reason, this first level French class needs 2.5 hours/week of class time and a minimum commitment of four to five hours per week of homework time. References and insight about this class from former parents/students are available upon request. I encourage parents and students to read the prospectus thoroughly before committing to this course. Also there's a document on the website that helps you determine whether French I, or Introduction to French would be better for your student. Copy and material fee is \$50-well worth the investment! (I recommend renting books to reduce overall cost)

French 2

Grades 9-12 | Instructor: Mary O'Donnell | Class meets 66 times | **Time: 2.5 hrs/wk** (Note: you are not charged for the extra .5 hr)

Prerequisite: French 1 with *BJU French 1* text or permission from instructor

This comprehensive French course, based in a Christian worldview/perspective, and taught by a relatively native speaker uses *BJU French 2* materials as a base and will include additional reading assignments, activities, scripture memorization and simple book reports. This is a slower paced class than French I in order to focus on the more challenging subject matter in French 2 and to meet my goal to equip students to communicate clearly and effectively to those in francophone countries. Beginning with the summer before class, I will be encouraging the students to communicate more fluidly in French. They will also be expected to do a lot of their work out loud at home and/or with each other in order to work on their oral communication skills. Students will complete half of the *BJU French 2* book, and additional material I provide to supplement and complement the material. The second half of the book is covered in French 3 (students are often able to get credit for 1.5-2 years of college French at the end of French 3). I provide almost all the books needed for a rental fee of \$10 per item, per year, or you may purchase them all on your own for over \$200. I will dispense semester grades and a final grade at the end of the year *suitable for high school transcripts*. This course also qualifies for language lab credit. Due to the immense amount of extra material provided by the instructor, there is a copy fee of \$50 (much of the copied material is helpful for future French study through college - I recommend renting books to reduce overall cost).

Note that there will be ten hours of summer work to be completed before classes begin. References and insight about this class from former parents/students are available upon request.

French 3

Grades 10-12 | Instructor: Mary O'Donnell | Class meets 66 times | Time: 2 hours/week

Prerequisite: French 2 with *BJU French 2* text or permission from the instructor

This comprehensive French course, based in a Christian worldview/perspective, and taught by a relatively native speaker uses the second half of *BJU French 2* materials as a base and will include: additional scripture reading and memorization; various story-telling, role playing, and other oral activities; and reading two level-appropriate French novels. This class is more slowly paced than French 2 in order to meet my goals to solidify their understanding of grammatical concepts and to equip students to communicate much more fluently. As always, they will also be expected to do work out loud at home and/or with each other in order to work on their oral communication skills. Students will complete the second half of the *BJU French 2* book, and additional material I provide to supplement and complement the material in the book. I provide almost all the *BJUP* books needed for a rental fee of \$10 per item, per year, or you may purchase them all on your own for over \$200. Plus, students will need to purchase three additional books to use this year (I might have a few of these books to rent also: TBD). I will dispense semester grades and a final grade at the end of the year *suitable for high school transcripts*. This course also qualifies for language lab credit. *Please note that I usually do teach French IV the following year, but usually off-site in order to include students from non-CHESS classes*. Due to the immense amount of extra material provided by the instructor, there is a copy fee of \$40 (much of the material is helpful for future French study through college - I recommend renting books to reduce overall cost).

Note also that there will be ten hours of summer work to be completed before classes begin. References and insight about this class from former parents/students are available upon request.

Spanish 1

Grades 9-12 (younger students with teacher's permission) | Instructor: Christina Bacca | Class meets 66 times

This class is designed for students who are new to the study of a language. Level One will introduce students to listening, reading, speaking and writing as well as the study of Latino culture. Listening and reading are the language skills that students acquire first, so active participation is essential. The classroom methodology is based upon the TPRS (Teaching Proficiency through Reading and Storytelling) /CI (Comprehensible Input method. Each student must have access to a computer at home in order to complete the online assignments. In addition to the class, 2-3 hours of homework will be assigned each week. In class there will be homework review, presentation of new material, and fun, interactive exercises. Students will read at least one short novel.

Spanish 2

Grades 9-12 | Instructor: Christina Bacca | Class meets 66 times
Prerequisite: A previous Spanish class with Mrs. Bacca or teacher approval

Spanish 2 builds on previously learned concepts and continues to challenge the student in the areas of listening, speaking, reading, writing and culture. This class requires active participation and focused attention. The classroom methodology is based upon the TPRS (Teaching Proficiency through Reading and Storytelling) /CI (Comprehensible Input method. We will read at least 2 short, fun novels. Each student must have access to a computer at home in order to complete the online assignments. In addition to the class, about three hours of homework will be assigned each week. In class there will be homework review, presentation of new material, and fun, interactive exercises all presented with comprehensible input.

Spanish 3

Grades 9-12 | Instructor: Christina Bacca | Class meets 66 times
Prerequisite: A previous Spanish class with Mrs. Bacca or teacher approval

This class is designed for students in grades 9-12 who have successfully completed Spanish 2 or the equivalent. Spanish 3 consists of a complete review of structures learned in Spanish 1 and 2 and introduction to more complex tasks. We will continue developing listening, reading, speaking and writing skills and reading 2-3 short novels. The classroom methodology is based upon the TPRS (Teaching Proficiency through Reading and Storytelling) /CI (Comprehensible Input method. Spanish 3 is an exciting level where students reach an advanced level of understanding and speaking to hold basic conversations and think in another language. Each student must have access to a computer at home in order to complete the online assignments. In addition to the class, about three hours of homework will be assigned each week. In class there will be homework review, presentation of new material, and fun, interactive exercises.



Social Sciences

New World to Old Dominion - Virginia History

Grades 7-12 | Instructor: Jody Lyon | Class meets 33 times

What makes history come to life? Seeing it through new eyes. Walking through it in different shoes. Where can you stand in the shoes of an adventurer? A Powhatan leader? An African landowner? A frontier explorer? A founding father? A confederate soldier? An idealistic Prohibitionist? Where can you ride out the hurricane that inspired Shakespeare's The Tempest? Watch from the woods with the natives

as English gentlemen bungle their attempts to become "seasoned" to the land they call Tsenahcommacoh? Look over the shoulders of the insurrectionists as they plan their treachery? Ride along along with hardened mountain men as they teach English soldiers modern warfare? Sit in the gallery as revolutionaries inspire through oratory? Attend the most famous trial in American history?

Virginia History is the place. Together we will explore the unique history of our state through the personal stories of those who lived it. Students will conduct research each week to prepare for weekly discussions. This brings individual study to the group and stimulates the desire to further explore a topic in addition to multiplying the learning by the number in the group! To further bring meaning to a subject many students see as dry and unrelatable, each student will choose a topic to be a lens through which to view the over 400 years of Virginia history. By tracing a subject of interest, students will discover how the past impacts the present. Their findings will be presented in our Festival of the Commonwealth at the end of the year. Creativity is encouraged in all class projects. Join us and you will never see Virginia the same way!

Understanding Worldviews: Preparing Christian Students for College and the Secular World

Grades 10-12 | Instructor: Sandy Boerman | Class meets 33 times

Major Textbook: *Understanding the Times: The Collision of Today's Worldviews* by David Noebel (Summit Ministries)

Teens are often unprepared for the bombardment of unbiblical ideas and values that are everywhere – college textbooks, teacher lectures and thinking, peer pressure, workplace ethics, and the media, to name just a few. A web search to get an idea of how many Christian students leave their faith and church after high school will give you mixed results, but the overwhelming majority tells you that at least 50% of youth brought up in Bible believing, Christian homes walk or drift away from their faith after high school. Sadly, this includes home schooled students whose parents have spent years instilling Biblical values and thinking into their children. We need to prepare our students to recognize unbiblical thinking and ideas the minute they encounter it, and this is what this course will teach your student to do. Your teen will learn to compare Biblical Christianity with the thinking and ideas of Secular Humanism, New Age, Post Modernism, Marxism, Islam, Mormonism, Jehovah's Witness and cults. They will understand the danger and fallacy of these opposing belief systems. American society has all these ideas or combinations of them imbedded in just about every place you can imagine, and are often so subtle, they are difficult to recognize. At the end of this course when your teen confronts these false beliefs, they will be able to discern them immediately, stand strong in and defend their Biblical Christian beliefs.

U.S. Government: The Words We Live By – Honors option available

Grade 12 (Grade 11 if space allows) | Instructor: Jody Lyon | Class meets 33 times

In this class, students will be presented with the origins, meanings and application of our form of government. We will first focus on philosophy and history, placing the formation of our nation in context. Students will research philosophers who influenced our founders and look at documents in place before the Constitution. Next, we will study the Constitution. As we look at each Article/section/ amendment, the class will address history, personalities, present-day issues, court interpretations, and implications for the future. The Constitution Project (the student's "personal" U.S. Constitution) will reflect their personal insights and understanding of "the words we live by." Students taking full advantage of class activities should become more familiar with this document than most adults - even Congressmen! The course will wind up with a study of the Bill of Rights and corresponding Supreme Court decisions. Now familiar with the nature of our government, the students will become Supreme Court justices making their own rulings on precedent-setting cases. Students will participate in group and individual case study and assemble a casebook of 50+ cases. The final project is the presentation of an issue essay reflecting the students' unique interests and grasp of the material presented throughout the year. This class can be counted as social studies or as social science. No textbook required. Younger students may be admitted at the permission of the instructor.

Work and Prosperity: Introduction to Economics – Honors option available

Grades 11-12 | Instructor: Jody Lyon | Class meets 33 times

In an election year, the word "economy" can be heard every day in the media and from the mouths of candidates and their supporters. What a better time to learn exactly what it really means? Join us as we study supply and demand, absolute advantage, inherent value versus value in exchange, mercantilism, the laws of... Did we lose you? Let's start over.

Understand the role of government intervention through playing Monopoly. Create your own market using candy and barter each week with your classmates to reach your hidden goals. Plan a purchase of an item or activity that you have been struggling for a means to obtain and actually follow through. Discover what makes a true entrepreneur through researching a business person and then enlighten the class with what you uncovered. Compare the major economic systems using real life stories of those living under their philosophies. Learn the role integrity plays in business through witnessing the wrench dishonesty throws into the natural course of economics. Determine for yourself this election year which system leads to prosperity for individuals and nations.

This course is filled with new jargon and concepts about a subject that has been called "the dismal science, but this class is always quite lively and accented with hands-on learning and meaningful projects. Yes, there are standard academic activities like reading, composing, studying and listening to lecture. But there is also plenty of room for discussing, debating and applying what is presented. And in case you were wondering, there is no math!

World Geography

Grades 7-9 | Instructor: Dee Dee Kintzing | Class meets 33 times

This exciting, interactive class uses the *Mapping the World by Heart* and Bob Jones University Press *Cultural Geography* curriculum. Students develop a core knowledge of Geography that serves as a foundation for exploring the full spectrum of high school social science courses. Students learn vital mapping skills, refine memorization techniques, engage in project research, analyse world current events, and improve speech and presentation skills. Current news and historical events become significantly more meaningful when viewed through a well-rounded lens polished with deep Geographic understanding.



Mathematics

Pre-Algebra

Grades 7-9 | Instructor: Camilla Rivera | Class meets 66 times

Prerequisite: Placement test

Pre-Algebra is a bridge between the computational math learned in grades 1-6 and the world of algebra with variable manipulation. In this class we will review fractions, decimals, and percents to be sure the concepts are solidly mastered. We will also introduce the beginning concepts of measurements, geometry, and algebra to help the student become familiar with the terms used again in high school math and science. The teacher will provide a daily schedule and will grade all tests. Homework will be required Tuesday, Thursday, and Friday. Students are required to check homework answers and come to class with any questions. Class time will be spent reviewing previous material, answering any questions, and introducing new topics. Students are asked to complete a placement test.

Algebra I

Grades 8-11 | Instructor: Camilla Rivera | Class meets 66 times

Prerequisite: Placement test

Algebra 1 is a one-year course that builds on arithmetic skills and extends basic algebraic concepts taught in all previous math classes giving the students a foundation for all future math courses. Students will explore: the real number system; writing and solving linear equations; powers and exponents; quadratic equations, polynomials and factoring; rational and radical expressions; graphing and solving linear inequalities; and introduce functions. By the end of Algebra I the student will not only increase their mathematic literacy, but also their problem solving and critical thinking skills which are both valuable tools that can be taken to and applied in other disciplines. Students are asked to complete a placement test. Those who have completed a previous course in pre-Algebra will be the most successful.

Geometry

Grades 9-12 | Instructor: Dr. Elena Ziu | Class meets 66 times

Prerequisite: Completion of Algebra I with a grade of C or higher

This high school level course introduces students to Euclidean geometry with a strong emphasis on developing proofs and problem solving skills. The required text is "Geometry: Seeing, Doing, Understanding," by Harold Jacobs. As the title suggests, the course will help students recognize the main ideas in geometry. The students will do geometry by working on exercises both individually at home and with their peers in the classroom. By going through the exercises on their own, and by sharing their solutions with other students will help them develop an understanding, and thus knowledge of geometry. Additionally, the course will help students develop their spatial reasoning skills, and especially their deductive reasoning and problem solving skills. These skills are highly beneficial skills to acquire regardless of students' future academic pursuits.

Algebra 2

Grades 9-12 | Instructor: Camilla Rivera | Class meets 66 times

Prerequisite: Algebra 1 and placement test

Algebra 2 is designed to review and enrich all concepts from Algebra 1. Topics covered will include operations with real number, systems of linear equations and inequalities, polynomials and factoring, rational equations, quadratic functions, some work with conic sections, exponential functions, complex numbers and logarithms. This is an important high school course and is necessary for all college bound students; the content of this course is needed for students' success on the college mathematics entrance exams (ACT or SAT). Those who succeed in this second part of the algebra sequence are well on their way to pre-calculus, calculus, and higher mathematics, which open the door to careers in science, engineering, medicine, economics, information technology, and many other fields. All students are asked to complete a placement test. It is recommended that students take Geometry before Algebra 2, but Geometry is not a requirement. The TI-83 or above graphing calculator is required.

Precalculus

Grades 11-12 | Instructor: Camilla Rivera | Class meets 66 times

Prerequisite: Algebra 2, Geometry, and placement test

Not interested in pre-calculus because you are not pursuing an engineering degree? Well think again. Engineering, science and math majors take calculus of course, but even business majors, computer programmers and IT majors must take some form of calculus. If your student is not interested in any of **the previously listed majors, pre-calculus class will be extremely valuable for the college entrance exams** (ACT or SAT) and math placement tests at college. All college bound students should take this class.

Pre-calculus will begin with functions, review Algebra topics ranging from polynomial, rational, and exponential functions to conic sections, introduce trigonometry concepts such as Law of Sines and

Cosines, and end with the limits, the introduction to calculus. All students are asked to complete a placement test. A TI-83 or above graphing calculator is required.

Personal Finance

Grades 11-12 | Instructor: Vicki Cochran | Class meets 16 times

This is a one semester class covering banking, debt, insurance, investing, giving, and succeeding with employment, education, and retirement. *Building Your Future* helps students easily grasp the essentials of personal finance, by giving them multiple opportunities to practice core skills and showcase the real-world impact of the financial decisions they make. It also addresses developing trends, such as the use of smart phones in banking and the increasing risk of identity theft. Other sources such as Randy Alcorn's *Managing God's Money* and Dave Ramsey's *Complete Guide to Money* will also be used. During the 16 weeks, we will have four non-cumulative tests with questions taken from the homework. Also, we will be creating a personal financial plan based on each student's future plans.



Natural Sciences

Biology Lab

Grades 9-12 | Instructor: Lorie Zellner | Class meets 33 times

Exploring Creation with Biology is designed to be the student's first high school science class. During the weekly class, the main focus is to conduct experiments, but some review and discussion may take place. Students are expected to read/study the material on their own. This book is written in lecture format, it is designed to be learned at home. Parents should expect to help their students learn new science specific vocabulary and to help them learn how to study. The instructor provides daily reading and homework assignments, and grades all tests and labs. Exploring Creation with Biology 2nd edition Textbook and Solutions Manual are required. Lab fee is \$70.

Advanced Biology: Human Body

Grades 11-12 (younger students may be accepted if completed both biology and chemistry)

Instructor: Camilla Rivera | Class meets 33 times

Prerequisite: successful completion of high school level Biology and Chemistry. Please contact Mrs. Rivera with the description of the curriculum used for each class.

This class covers both the anatomy and physiology of each of the human body's organ systems and is intended to be a second biology course. We will be using Apologia's text, *Advanced Biology: The Human Body* 2nd Edition. Actual class time will focus on completing the labs, but some review and discussion may take place. Homework and tests will be completed at home. The instructor provides daily reading and homework assignments, and grades all tests and labs. Students are expected to read/study the material on their own. Topics covered include: Histology (study of tissues), Integumentary and Skeletal Systems (skin and bones), Skeletal System Histology and Movement, Muscle Histology and Physiology, Skeletal Muscle System, Nervous System, Central Nervous System, Peripheral Nervous System, Endocrine System, Circulatory System, Lymphatic System, Digestive System, Respiratory System, Urinary System and the Reproductive System. Lab fee is \$65.

Chemistry Lab

Grades 9-12 | Instructor: Sandy Kelly | Class meets 33 times

Prerequisite: completion of Algebra I and some other high school lab science, preferably physical science

Discovering Design With Chemistry is a college-prep chemistry course, which gives students a rigorous foundation in chemistry. During class the main focus is to conduct experiments, but some module review

and homework discussion will take place. Students are expected to read/study the material on their own. The required book is written in independent-study format, and is designed to be learned at home. Parents are expected to help the students with any insufficient math skills. The instructor provides weekly reading and homework assignments, and grade all tests and labs. *Discovering Design with Chemistry* by Dr. Jay L. Wile textbook is required. All students interested in Chemistry must take this LAB only class. Those that think they might need extra help should consider also taking the extra Lecture course. Lab fee \$30 and each family will be asked to provide some household items (paper towels, baking soda, etc.) when needed.

Chemistry Lecture

Grades 9-12 | Instructor: Sandy Kelly | Class meets 33 times

Prerequisite: Students must also be enrolled in Chemistry Lab to attend this class.

This extra lecture class is suggested for: students that are weak in math; students that have a difficult time learning new concepts from reading a book; and for parents that know there is no way they, or someone else in the family, could possibly help their student with chemistry concepts. Additional lectures, extra practice problems, and discussion will occur in this class to help give the student that extra boost to get through chemistry. All lectures will be one week ahead of the schedule for the Chemistry Lab class. This class is not required for the Chemistry Lab. Not all students in Chemistry Lab need to take the Chemistry Lecture. Copy Fee is \$10.

Advanced Chemistry Lecture and Lab

Grades 11-12 | Instructor: Sandy Kelly | Class meets 33 times **(2-hour class)**

Advanced Chemistry prepares students to take the AP exam. Students who pass the AP exam may receive college credit for the subject.

Prerequisites: A student should have completed Algebra 2 with a grade of A or B and the first year of chemistry using *Exploring Creation with Chemistry* with a grade of A or B.

This chemistry course is designed to be taken after a college-preparatory chemistry course such as *Exploring Creation with Chemistry*. Students must like chemistry and be willing to work hard, since some modules require many long calculations and others require lots of memorization. When both courses are taken, the student is prepared to take the AP (Advanced Placement) or CLEP (College Level Examination Program) chemistry exam. (It is recommended that a student use a test preparation book, along with the course work, if planning to take one of these exams.) Students are expected to read and study the material on their own. Additional lectures, extra practice problems, discussion, and experiments will occur in this class. The instructor provides weekly reading and homework assignments, and grades all tests and labs. Apologia *Advanced Chemistry in Creation, 2nd edition* Textbook is required. Lab fee of \$60 and each family will be asked to provide some household items (paper towels, baking soda, etc.) when needed.

Physical Science

Grades 8-9| Instructor: Lorie Zellner | Class meets 33 times

Exploring Creation with Physical Science is designed to be the last science course the student takes before taking high school biology. It is recommended as an 8th grade course, but can be taken in 9th grade as well. We will cover such topics as the atmosphere, the hydrosphere, weather, the structure of the earth, environmentalism, the physics of motion, Newton's Laws, gravity, and astrophysics. Lab skills will be developed throughout the course. This is an excellent course for preparing the student to take a college-prep high school science curriculum. Class time will be used for labs and class discussion of the material. Students will be expected to read the material and answer the questions on their own. The instructor will provide daily reading and homework assignments and will grade all tests and labs. Parents will be asked to monitor homework and proctor tests. There is a lab fee for this course. (Your child should be taking or have completed a pre-algebra course before starting this course.)

Science Fundamentals Through Art

Grades 8-9* (7th with instructor's permission) | Instructor: Dee Dee Kintzing | Class meets 33 times

This CHESS-exclusive course is an introductory to science that blends fundamental scientific principles and concepts in Biology, Chemistry, and Physics with key aspects of artistic design and presentation. Teaching these principles through the lens of Art provides foundational skills that help spawn and refine organizational and critical thinking aptitude essential for success in future science courses. Students discover and learn concepts through a combination of lecture and discussion, independent research, and in-class labs disguised as art projects designed to explore and reinforce these scientific principles. Each project culminates with a formal critique in which, like a lab report, methodical observation and orderly reason is required to examine the work and properly interpret meaning with valid reasoning. This serves to improve cause-and-effect discernment and sharpen expressive language skills. Students will also learn effective design principles and develop a poster to communicate a selected scientific concept, as well as will give an oral presentation demonstrating an artistic technique or scientific development. These activities provide students with important experience in the art of presenting the results of their work to a group of peers.



Other Studies

Career Exploration and Job Search Skills (Fall)

Grades 10 – 12 | Instructor: Sandy Boerman | Class meets 16 times; ½ credit

Your student will learn life-long skills to be successful in choosing college majors and careers for their future. These skills are figuring out what interests they have that can translate into a career or job, and how to go about finding out about those careers, including the future outlook of those careers. Students will take several interest inventories including the Holland Code Career Test, and also take a work values assessment. These tests and assessments can be linked to specific jobs. We will then learn the skills and tools to research jobs, and students will be required to research at least 3 careers or jobs that are linked to their interests and work values. We will also learn about interviewing skills and applying for jobs. At the conclusion of this class, your student will have identified and researched jobs that interest them, and will have the information and tools necessary to do this in the future should their interests change.

Career Photography

Grades 9 – 12 | Instructor: Kimberly Glover | Class meets 33 times

Photography is an art, but there are many other aspects to it if you want to make a career of photography. I will spend class time discussing and demonstrating the art of photography and what that art looks like through the lens of a business. The students will learn how to photograph in manual mode of their cameras so they can begin to picture what they want and then achieve it. Next we will use that knowledge to delve into the different career opportunities of photography. The students will study great photographers and their business habits. Some of the careers we will explore are: portrait photography, landscape photography, sports photography and photojournalism. Students also will plan their own small businesses by creating a "Cost of Doing Business" and a marketing plan. While students probably could spend only an hour a week on most assignments, I will encourage them to spend at least two hours a week on practicing their newly learned craft. A few assignments during the year may take more time. Each student will need a digital SLR camera with the capability to shoot in manual mode. Students also will need computer access at home.

Choir

Grades 8-12 | Instructor: Tracy Klicka | Class meets 33 times

Prerequisite: An audition will be required to participate in choir. Each student will be asked to sing one stanza of a hymn of their choice, and demonstrate basic ear training ability through a few short vocal exercises.

This is for the beginning to intermediate vocalist. The objectives are to pursue musical excellence in vocal technique, to achieve a moderate degree of music literacy, and to gain enjoyment through being in a performance group. This course will include: basic music notation (it will be helpful if the student knows how to read music, but it is not required), ear training, vocal technique fundamentals, choral techniques, and participation in scheduled Christmas and spring concerts. Music selections will be drawn from sacred and classical music, folk songs and spirituals, Broadway and patriotic pieces. In addition, musical programs will give students experience singing in a foreign language and may include choreography, besides providing opportunities for students to perform a solo or in a small ensemble.

Minimum: 24 students

Fearless Public Speaking (Fall/Spring)

Grades 7-12 | Instructor: Betsy Dill | class meets 16 times; 1/2 credit

Choose either Fall or Spring semester

Every career depends on the persuasive transfer of information in an engaging fashion. Begin that training in a fun, no-stress atmosphere where humor is welcome and peers are supportive. Learn the mechanics of delivery, how to present research, organize content, design effective posters, and best of all, remain relaxed in the spotlight! Participate in a newscast and become a celebrity on a "talk show!" Videotape of newscast and talk show, no holiday homework.

IMHO or In My Humble Opinion – Logic

Grades 10-12 | Instructor: Jody Lyon | Class meets 33 times

What are the skills that are used by everyone on a daily basis, or at least should be? --Thinking, reasoning, and soundly arguing your point. Do these sound familiar? Should I buy a Mac or a PC? Which college will match my needs? Let me tell you why you should support Trump. Who would win in a fight, Batman or Superman? I say we pay sports guys too much! More seriously... I say free speech should be limited. Women shouldn't be in combat. Christianity will set you free.

We are always thinking, pondering and trying to convince others of our views. But do we always go about it in an effective way? Or does passion and emotion get in the way. Each week, students will be presented with beginning formal logic and then put it to practice discussing topics of their choice in a safe, facilitated environment. The topics can be whimsical or serious, but must be agreed upon by the class. Students will be required to research a topic the week before the discussion and use the skills presented in the "logic" portion of the class. Creativity is encouraged. Individual projects may be presented in the form of reports, but poetry, songs, dance, puppet shows, stand up, drama, short stories have all been used effectively in past years.

Mastering Microsoft Essentials

Grades 9-12 | Instructor: John Jenkins | Class meets 33 times

Prepare your student for high school, college, and young adulthood in an upbeat and interactive classroom setting focused on developing critical thinking skills and learning how Microsoft Office Word, PowerPoint, and Excel can be used to accomplish a variety of real-world student projects. Give your student the skills they will need to interpret and explain and effectively communicate ideas, situations, and solutions to academic and real-world problems. Students will be able to apply many of their new or

upgraded skills directly to assignments or projects for other classes.

Students are required to bring laptops or Microsoft-compatible tablets to conduct research, participate in teams and in-class discussions, complete projects and create hardcopy presentation materials. They will make individual and group written or verbal presentations of their projects using Microsoft Office programs.

Mock Trial

Grades 9-12* (younger students with instructor's permission) | Instructor: John Jenkins | Class meets 33 times

Using a courtroom backdrop for civil, constitutional, civil, and/or criminal cases, this highly interactive and team-oriented class integrates all of the basic academic skills needed to succeed in both college and life. Less formal and structured than organized speech and debate classes, Mock Trial uses drama and an introduction to our court and legal system to create a thoroughly compelling academic elixir that will help your students develop competence, confidence, and collective creativity – the interactive power of teams.

Students will learn: 1) notetaking and organizing skills, 2) critical listening and reading skills, 3) problem solving skills, 4) effective speaking skills, 5) teamwork and leadership skills, and 6) conflict resolution skills.

Photography-Yearbook Class

Grades 9-12 | Instructors: Kimberly Glover and Faith Lillemo | Class meets 33 times

The Photography-Yearbook class is so much more than just creating memories. The students will have the opportunity to learn professional photography skills, learn how to use the Photoshop program, build a personal portrait portfolio, engage in photojournalism, perform design and layout, and work on advertising, creative writing, graphic design, and so much more! Each student will have a specific role in the process and will have weekly assignments to complete outside of class that will 1-3 hours per week first semester, and 2-4 hours second semester. During the Spring we will be focusing on yearbook design and lay-out. There will be more homework and the focus will shift to publishing. In late Spring, after yearbook deadlines have been met, we will have a few more photography classes and a photo contest. Students will need a DSLR camera that can go into manual mode and a computer to work on at home.

Study Skills for Success in College and Life

Grades 10 – 12 | Instructor: Sandy Boerman | Class meets 33 times

This is not a crash course in study skills – this is a 1 credit elective, in-depth course, to give your student the tools they need to be successful in any learning environment. This class is designed to equip students with the following study and life skills that are critical for success in upper level high school and college: (1) how to effectively manage their time and set goals to accomplish the challenges of high school and college, and beyond (2) discover how they individually learn best and ways to make their learning styles work for them (3) master and practice methods for effective note taking during lectures (4) learn strategies for test taking (multiple choice, true/false, essays and math) (5) learn and practice multiple methods for extracting the most important information from a textbook and turning it into their own personal study guide (6) practice various memory techniques and discover what techniques work best for them (7) comprehend and practice critical thinking and oral/written communications woven throughout the course (8) understand and develop habits, attitudes and thinking which support educational success. Everything that we learn will be practiced using our own course material and often material from other classes they are taking. God's role in their education and life is woven throughout their study skills experience. Your student will be well prepared for whatever comes next in their educational experiences and challenges.