

Arizona Lutheran Academy - Curriculum Guide 2016 - 2017

020 Introduction to English

Grade: 9, 10, 11, 12

Taught: full year

Teacher: S. Hill

Credit: .5 per semester

Prerequisite: None

Description: Introduction to English is a course designed to reinforce basic skills in the areas of composition (sentence and paragraph development), grammar (parts of speech and sentence construction), and literature (short stories, poetry and novels).

021 Introduction to Literature and Composition

Grade: 9

Taught: full year

Teacher: S. Hill

Credit: .5 per semester

Prerequisite: None

Description: Introduction to Literature and Composition has a three-fold purpose: composition, grammar, and literature. Composition activities include sentence and paragraph development and short research papers. Grammar studies include the parts of speech and sentence construction. Literature includes popular short stories, poetry, and selected novel studies.

022 Introduction to World Literature and Composition

Grade: 10

Taught: full year

Teacher: S. Hill

Credit: .5 per semester

Prerequisite: Introduction to Literature and Composition or its equivalent

Description: Introduction to World Literature and Composition follows the same curriculum as Introduction to Literature and Composition but is more in-depth. Topics covered include literature, composition, grammar, and a more formal introduction to public speaking.

023 American Literature and Composition

Grade: 11

Taught: full year

Teacher: J. Tierney

Credit: .5 per semester

Prerequisite: Introduction to World Literature and Composition or its equivalent

Description: American Literature and Composition is a course that studies American literature in all its many forms, paying particular attention to historical context and its impact on ways of thinking. Writing and vocabulary skills are emphasized. Term papers are required.

024 British Literature and Composition

Grade: 12

Taught: full year

Teacher: J. Tierney

Credit: .5 per semester

Prerequisite: American Literature and Composition or its equivalent

Description: British Literature and Composition introduces the study of British literature with an increased writing emphasis. The course also includes a cultural awareness section that examines literary interpretations of *Macbeth* based on differences in culture. Term papers are required.

025 Speech and Debate

(Available 2017-2018)

Grade: 10, 11, 12

Taught: full year

Teacher: J. Tierney

Credit: .5 per semester

Prerequisite: Introduction to Literature and Composition

Description: Speech and Debate is a course designed for students who desire to improve their communication skills and speech proficiency. This course also provides students opportunities to conduct research and analysis on debate topics, formulate case refutation strategies, and integrate support and evidence into speaking strategies.

028 AP English Literature and Composition

Grade: 12

Taught: full year

Teacher: J. Tierney

Credit: .5 per semester

Prerequisite: Junior English

Description: The College Board's Advanced Placement (AP) English Literature and Composition course will involve the reading and critical analysis of imaginative literature of recognized literary merit. It will include representative works from various genres (poetry, drama, fiction, and exposition), countries, and time periods from ancient Greek to modern day. The writing portion of the course will include primarily expository, analytical, and argumentative essays of various lengths with the goal of developing the students' abilities to organize ideas in a clear and coherent manner with persuasive language and mature style. A term paper will be required. A satisfactory grade of 3 or higher on the final College Board Standard Exam can result in college credit for the course.

029 Basic English Communication

Grade: 9, 10, 11, 12

Taught: full year

Teacher: L. Stahmann

Credit: .5 per semester

ESL Basic Communications is a course designed to introduce academic English to students studying in the United States for the first time. This course will help students develop English language skills necessary for language arts, social studies, science and math. Students will also practice their oral language skills on a daily basis through interaction with the instructor and their peers.

030 Intermediate English Communication

Grade: 9, 10, 11, 12

Taught: full year

Teacher: K. Rosales

Credit: .5 per semester

ESL II is a course for the advanced English learner which focuses on improving the international student's listening and speaking skills while continuing to expand their academic vocabulary. Because of its emphasis on oral language skills, ESL II is most often taken in addition to a mainstream English course which focuses on literature, writing and grammar.

102 Algebra I

Grade: 9, 10

Taught: full year

Teacher: L. Stahmann

Credit: .5 per semester

Prerequisite: Placement based on testing scores and elementary school recommendation.

Description: Algebra is a study of the language of mathematics. Students in Algebra I will grow in their understanding of the greatness of God in ordering our universe mathematically. Linear equations and inequalities, systems of equations in two variables, function notation, and graphs of linear, exponential, and quadratic functions are studied. Additionally, solving equations of one and two degrees will be an emphasis. Operations on polynomials and properties of exponents is also covered. Applications of all concepts in problem solving situations is a daily expectation. Completion of Algebra I prepares students to continue their study of mathematics in Geometry.

103 Algebra II

Grade: 10, 11, 12

Taught: full year

Teacher: S. Loberger

Credit: .5 per semester

Prerequisite: Geometry

Description: Foundational algebraic concepts learned in Algebra I are strengthened, extended, and enhanced in Algebra II. The coursework will begin building bridges necessary for a new world of mathematical understanding presented in calculus studies. Solving equations of all types numerically, algebraically, and graphically is a point of emphasis. Using functions of many families, many two-variable relationships will be modeled with the aid of technology. Completion of Algebra II will allow a student to take Statistics.

108 Geometry

Grade: 9, 10, 11

Taught: full year

Teacher: S. Loberger

Credit: .5 per semester

Prerequisite: Algebra I

Description: Geometry provides students with experiences that deepen the understanding of two and three-dimensional objects and their properties. Deductive and inductive reasoning as well

as investigative strategies in drawing conclusions are stressed. Properties and relationships of geometric objects include the study of:

1. points, lines, angles, and planes;
2. polygons with a special focus on quadrilaterals, triangles, and right triangles;
3. circles; and
4. polyhedral and other solids.

An understanding of proof and logic is developed. Students will see that algebraic concepts are integrated throughout the geometry coursework.

109 Pre-Algebra

Grade: 9, 10

Taught: full year

Teacher: to be determined

Credit: .5 per semester

Prerequisite: None

Description: Pre-algebra will prepare students for the rigors of algebra and geometry with a steady progression of lessons that deliver content in a manageable way. Interesting visuals and features create interest in math by emphasizing its importance in students' everyday lives while sharpening critical thinking skills.

112 Pre-Calculus

**Dual Credit with SMCC (MAT 187)

Grade: 11, 12

Taught: full year

Teacher: M. Steiner

Credit: .5 per semester

Prerequisite: Advanced Algebra

Description: After an introduction to number patterns and sequences, the course content delves into advanced mathematical topics with an emphasis on real-world applications. Base functions (linear, quadratic, exponential, logarithmic, trigonometric, etc) and their respective graphs are used to model relationships between two variables. A thorough study of trigonometry is included. An entire unit of study is devoted to analytic geometry as well as a study of matrices. Technology applications are stressed in each unit of study.

113 Personal Finance

Grade: 11, 12

Taught: full year

Teacher: V. Steinmetz

Credit: .5 per semester

Prerequisite: None

Description: Personal finance is a course that will guide students through the concepts of banking, credit, mortgages, investments, insurance etc. It is a course intended for students who have completed their personal highest possible level of mathematics offered at ALA and still desire or need more math instruction. Enrollment in the course is by teacher or administration recommendation.

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114 Statistics

Grade: 11,12

Taught: full year

Teacher: S. Loberger

Credit: .5 per semester

Prerequisite: Algebra II or Advanced Algebra

Description: This course is an introduction to statistics. Topics include descriptive statistics, methods of sampling, tables, graphs, percentiles, concepts of probability, normal and chi-square distributions, sampling distributions, confidence intervals, hypothesis testing of one and two means, proportions, binomial experiments, sample size calculations, correlation, and regression. Applications in business, social sciences, and other fields are discussed.

115 Advanced Algebra

Grade: 10, 11,12

Taught: full year

Teacher: M. Steiner

Credit: .5 per semester

Prerequisite: Geometry

Description: Foundational algebraic concepts learned in Algebra I are strengthened, extended, and enhanced in Advanced Algebra. The coursework will begin building bridges necessary for a new world of mathematical understanding presented in calculus studies. Solving equations of all types numerically, algebraically, and graphically is a point of emphasis. Using functions of many families, many two-variable relationships will be modeled with the aid of technology.

116 AP Calculus AB

*Advanced Placement

**Dual Credit with SMCC (MAT 221)

Grade: 12

Taught: full year

Teacher: M. Steiner

Credit: .5 per semester

Prerequisite: Precalculus

Description: Students of AP Calculus AB will study limits, continuity, rates of change, derivatives, mathematical modeling, integration, slope fields, areas, volumes, and the Fundamental Theorem of Calculus. Students will work with these topics graphically, numerically, analytically, and verbally. Students will understand the connections among these representations. Students will be prepared to take the AP Calculus AB test in May.

117 AP Calculus BC

*Advanced Placement

**Dual Credit with SMCC (MAT 221)

Grade: 12

Taught: full year

Teacher: M. Steiner

Credit: .5 per semester

Prerequisite: AP Calculus AB

Description: Students will study asymptotic and unbounded behavior, parametric, polar, and vector functions, lengths of curves, L'Hopital's Rule, polynomial approximation and series,

Taylor and Maclaurin series. Students will work with these topics graphically, numerically, analytically, and verbally. Students will understand the connections among these representations. Students will be prepared to take the AP Calculus BC test in May.

201 Physical Science

Grade: 9

Taught: full year

Teacher: M. Sonntag

Credit: .5 per semester

Prerequisite: None

Description: Physical Science will prepare the student for any of the other required and elective science courses offered at ALA. Physical Science is broken up by the two semesters; the first is a basic look at Chemistry, while the second semester looks at the basic laws and theories of Physics. Chemistry takes a look at physical, chemical, and nuclear reactions as well as the "why" and "how" of their occurrences. Physics looks at the natural laws around us, including gravitation, motion, acceleration, buoyancy concepts, and sound and light. Labs, reports, and quizzes are abundant. This course is taught in light of God's inerrant Word.

202 Biology

Grade: 9, 10

Taught: full year

Teacher: G. Gray

Credit: .5 per semester

Prerequisite: Physical Science

Description: Biology is the study of life as God created it. Therefore biology is taught in the light of God's Word. The course will strongly emphasize the students' problem-solving, critical-thinking, and inquiry skills. The curriculum allows learners to conduct investigations that are meaningful to them and that highlight experimental design, analysis, and the application of concepts.

203 Chemistry

(Available 2017-2018)

Grade: 11, 12

Taught: full year

Teacher: M. Sonntag

Credit: .5 per semester

Prerequisite: Physical Science, Algebra I

Description: This is a study of the theoretical basis of chemistry and the history of how conclusions have been reached. Laboratory time is provided for reinforcing theories and learning simple laboratory procedures. This course is offered in odd numbered years.

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204 Physics

(Available 2016-2017)

Grade: 11, 12

Taught: full year

Teacher: M. Sonntag

Credit: .5 per semester

Prerequisite: Physical Science, Algebra I

Description: Physics is an elective course that deals with natural laws and theories that help to explain God's creation around us. It is a college level introduction to physics. All types of teaching modes: demonstration, lecture, animations, labs, and sound. Physics looks at the natural laws around us, including gravitation, motion, acceleration, buoyancy concepts, and sound and light. Labs, reports, and quizzes are abundant. This course is taught in light of God's inerrant Word.

205 AP Biology

*Advanced Placement

Grade: 11, 12

Taught: full year

Teacher: G. Gray

Credit: .5 per semester

Prerequisites: Biology, Anatomy & Physiology

Description: AP Biology The AP biology course prepare students for the AP Exam and further study in health sciences. This course has been authorized by College Board to use the AP designation. It is the equivalent of an introductory college-level biology course. The course is divided into three sections with correlating laboratory exercises: molecules and cells; heredity and evolution; and organisms and populations. AP biology will make a heavy demand on time and energy. Entrance into the course is by teacher interview and approval.

206 Anatomy & Physiology

Grade: 10, 11, 12

Taught: full year

Teacher: G. Gray

Credit: .5 per semester

Prerequisite: Physical Science, Biology

Description: Anatomy and Physiology: this course studies the wonder of God's most complex creation-the human body. The underlying theme of anatomy is that God has given us mechanisms that allow our bodies to do literally everything in our lives. Physiology describes the process by which that happens. Lab, projects, readings and quizzes are abundant. this course is taught in light of Gods' inerrant word.

208 Earth and Space Science

Grade: 10, 11, 12

Taught: full year

Teacher: M. Sonntag

Credit: .5 per semester

Prerequisites: Physical Science, Biology

Description: This course will be taught in light of God's Word. Earth science offers a look at the makeup of the earth, including the minerals that make it up and the processes that go into shaping it. Units include forces, oceans, the atmosphere, materials of the earth, and sculpting the earth's surface. Space

science shows us the earth's place in the universe, touching on subjects such as astronomy, the solar system, and astronomical observations.

303 U.S. History

Grade: 11

Taught: full year

Teacher: D. Peter

Credit: .5 per semester

Prerequisite: None

Description: United States History is a survey course on the history of our country from colonial times to the present. This is a study of "your" country with instruction centered on the fact that history is "His story." Students will recognize the cause and effect relationships of events while taking a broad overview of the historical events of the United States.

304 U.S. Government

Grade: 12

Taught: 1 semester

Teacher: K. Rosenbaum

Credit: .5 per semester

Prerequisite: U.S. History

Description: This senior level course offers students an introduction to political science, sociology, and current events. The class will conduct an in-depth study of the U.S. Constitution and the workings of our government. Select topics will be covered appropriately.

305 Economics

Grade: 12

Taught: 1 semester

Teacher: K. Rosenbaum

Credit: .5 per semester

Prerequisite: None

Description: Economics is a one-semester survey course. The goal of this course is to enable students to make reasoned judgments about both personal economic questions and broader questions of economic policy. Students will develop an economic way of thinking and problem solving to understand and apply basic economic principles to decisions they will make as consumers, members of the work force, citizens, voters and participants in global marketplace, as well as an application to the Christian's life of stewardship.

309 History/Geography

Grade: 9

Taught: full year

Teacher: D. Peter

Credit: .5 per semester

Prerequisite: None

Description: World Geography will examine the physical features of the earth and their effects on politics, economics, religions, and cultures of nations. In addition, the students will review basic social studies skills pertaining to geography and placing emphasis on the student's development of an understanding of international affairs and, as a member of the world community, the importance of individual responsibility.

310 AP European History*

(Available 2016-2017)

Grade: 11, 12

Taught: full year

Teacher: D. Meyer & K. Rosenbaum

Credit: .7 per semester

Prerequisite: Geography and/or World History

Description: This course will provide the student with an opportunity to acquire a general knowledge of European history (1450-present) as it is taught at the introductory level in most colleges and universities. Students will closely analyze political, social, cultural, intellectual, and economic events that set the stage for 19th century European imperialism and the world wars of the 20th century. Each student is required to take the AP exam and may receive credit or advanced standing at the college or university of his choice, depending on the AP exam score.

311 World History

(Available 2017-2018)

Grade: 10, 11, 12

Taught: full year

Teacher: B. Edmundson

Credit: .5 per semester

Prerequisite: None

Description: This course focuses on the major centers of civilization from Creation to 1300 A.D., with special emphasis on Egypt, China, Greece, and Rome. Students will examine the political, social, and economic events that shaped ancient and modern history. This course will also serve as an introductory course for AP European History.

317 Fundamentals of US History

Grade: B. Edmundson

Taught: full year

Teacher:

Credit: .5 per semester

ESL US History is a one year course designed to introduce the international student to the history of the United States from colonial America to the present day. Course materials are written at a level appropriate for ESL learners who have little prior knowledge of the history of the United States.

This course meets the US History requirement for graduation.

406 Foundations of Christian Faith

Grade: 9

Taught: full year

Teacher: B. Bode

Credit: .5 per semester

Prerequisite: None

Description: This course covers the Old Testament from Creation through the life of David, relating Biblical truths to basic questions of life, as well as discussing the following topical studies: "Reading the Bible: The Focus," and "Teenagers as Witnesses for Christ." Emphasis is placed on not just reading the Bible but also applying God's truth in our everyday lives.

407 Israel's Divided Kingdom

Grade: 10

Taught: 1 semester

Teacher: B. Edmundson

Credit: .5 per semester

Prerequisite: None

Description: This course picks up following the life of David as Israel enters its period of the Divided Kingdom. The northern kingdom of Israel and the southern kingdom of Judah went their separate ways and separate from God's ways and endured tragic results. Applying wisdom from the Psalms and the Proverbs is also a portion of the course.

408 Life of Christ and Christian Living

Grade: 10

Taught: 1 semester

Teacher: B. Edmundson

Credit: .5 per semester

Prerequisite: None

Description: Religion class is a chance to gain factual and practical knowledge in order to apply God's Word to our daily lives. The following topics are addressed through the course of the semester:

1. The Seven Habits of Highly Effective Christians
2. The Four Gospels/Life of Christ
3. God's Gift of Sexuality
4. Dealing with the Sins of Society

409 World Religions

Grade: 11

Taught: 1 semester

Teacher: B. Edmundson

Credit: .5 per semester

Prerequisite: None

Description: Time is spent discussing the world's major and minor religions and cults. Application of Bible passages to errors found in each religion is expected, and students will be guided to find a means of witnessing to people who have been misled by the erroneous teaching of these religions.

410 Spread of the Early Christian Church

Grade: 11

Taught: 1 semester

Teachers: A. Oppermann

Credit: .5 per semester

Prerequisite: None

Description: This course covers the book of Acts in detail, tracking the spread and growth of the early Christian church. A brief overview of the Apostle Paul's letters is covered as well. Topical studies throughout the year include Christian Citizenship, Church Membership, and Spiritual Gifts.

411 Christian Doctrine

Grade: 12

Taught: full year

Teacher: B. Bode

Credit: .5 per semester

Prerequisite: None

Description: This course provides a summary and in-depth discussion of our Christian doctrine, the New Testament's general epistles, the book of Revelation and the following topical courses:

1. Christian Life Planning
2. Marriage and Sexuality
3. Gospel Outreach, and
4. Christian Stewardship/FPU (Financial Peace University), a practical guide in wisely using the blessings God has given us.

Emphasis is placed on not just reading the Bible but also applying God's truth in our everyday lives.

413 Introduction to Christianity

Grade: 9, 10, 11, 12

Taught: full year

Teacher: B. Bode

Credit: .5 per semester

Prerequisite: None

ESL Religion - Students will be introduced to the Bible and Christianity through the use of the Bible Teachings Series, published by WELS Multi-Language Publications. Students will learn about God's plan of salvation for all people through the teaching of basic Law and Gospel. Bible stories will be used throughout the course to introduce students to the Bible and its teachings.

501 Spanish I

Grade: 9, 10, 11

Taught: full year

Teacher: K. Rosales

Credit: .5 per semester

Prerequisite: Reading ability at grade level.

Description: Spanish I is an introduction to the Spanish language. A variety of everyday vocabulary and basic Spanish grammar will be taught. Students will also learn about some of the unique characteristics of Spanish-speaking cultures. The students will begin to speak, read, write, and listen to the Spanish language with basic comprehension.

502 Spanish II

Grade: 9, 10, 11, 12

Taught: full year

Teacher: K. Rosales

Credit: .5 per semester

Prerequisite: Spanish I with at least a "C"

Description: Spanish II is a continuation of Spanish I. We continue to study a variety of everyday vocabulary and more advanced Spanish grammar. Students will also learn more about the unique characteristics of Spanish-speaking cultures. The students will speak, read, write and listen to the Spanish language with better understanding and proficiency.

508 Spanish III

Grade: 11, 12

Taught: full year

Teacher: K. Rosales

Credit: .5 per semester

Prerequisite: Spanish II

Description: Spanish III is a course that uses what the students learned in Spanish I and Spanish II as a foundation for more advanced learning of the Spanish language. Along with review of grammar and vocabulary, new vocabulary and grammar will be presented in a variety of ways. This will help the students speak, read, write, and listen to the Spanish language with a higher level of proficiency than Spanish II and will prepare students for Spanish IV.

509 Spanish IV

Grade: 12

Taught: full year

Teacher: K. Rosales

Credit: .5 per semester

Prerequisite: Spanish III

Description: Spanish IV is a course that reviews what the students have learned in Spanish I, Spanish II, and Spanish III. The course reviews important grammar and vocabulary. Along with review of grammar and vocabulary, new vocabulary and grammar will be presented in a variety of ways. Students will speak, read, write, and listen to the Spanish language with a higher level of proficiency than the previous three years.

604 Band

Grade: 9, 10, 11, 12

Taught: full year

Teacher: A. Oppermann

Credit: .5 per semester

Prerequisite: Previous instrumental experience or consent of instructor.

Description: This is a concert band and pep band ensemble performance class. Students should be proficient in a concert band instrument. Orchestra members are welcome with approval from the director. Piano players are also welcome with prior approval and a willingness to learn mallet percussion instruments.

627 Basic Music

Grade: 9

Taught: full year

Teacher: A. Oppermann

Credit: .3 per semester

Prerequisite: none

Description: This is an introductory music class that will review basic note reading and composition skills. The main goal is to read and understand the musical notation on a basic hymnal page. This course is a pre-requisite to participating in Concert Choir/A Cappella, and Concert Band (10th-12th grade).

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606 A Cappella Choir

Grade: 10, 11, 12

Taught: full year

Teacher: A. Oppermann

Credit: .3 per semester

Prerequisite: Selected by audition. Concurrent enrollment in Concert Choir or consent of instructor.

Description: The A Cappella is an auditioned choir selected from the Concert choir that also performs at all concerts, some chapel services, community events, participates in worship at ALA Sundays and is ALA's representative at the WELS Choral Festivals. A Cappella requires outside-of-the-school-day rehearsal and performances.

605 Concert Choir

Grade: 10, 11, 12

Taught: full year

Teacher: A. Oppermann

Credit: .2 per semester

Description: Concert Choir is designed to give students the opportunity to prepare, experience and excel in ensemble choral music. It is a group learning course which counts on the cooperation of the group as a whole to learn the art of choral singing. Throughout the year the students will study/perform many different styles of music from Chant to Contemporary Music. The Concert Choir performs in four major concerts each year and also for chapel services throughout the year.

645 World Art

Grade: 9, 10, 11, 12

Taught: full year

Teacher: A. Indahl

Credit: .5 per semester

Description: World Art will be looking at works of art from different countries around the world. Written observations of some of this art will be part of weekly assignments. Projects that reflect the styles of artists from these countries will be assigned. Sketching still life objects will take place one day a week. A written detailed description will accompany the project.

All projects will be saved and displayed at an art show at the end of the school year. Art students will be the docents (educated tour guides) for the display.

648 Creative Christian Art

(Available 2017-2018)

Grade: 9, 10, 11, 12

Taught: full year

Teacher: A. Indahl

Credit: .5 per semester

Description: Take a look at art created by masters. Master similar art projects you create. Look at applications of Christian art. Apply Christian "flavor" into your art. This class is for any grade and any level of art experience.

1601 Ceramics

Grade: 10, 11, 12

Taught: full year

Teacher: A. Indahl

Credit: .5 per semester

Prerequisite: none

Description: Students will explore a variety of methods—including molds, pinching, coiling, slabbing and throwing on a potter's wheel—to create decorative and functional pieces.

734 Computer Publishing

Grade: 10, 11, 12

Taught: full year

Teacher: V. Steinmetz

Credit: .5 per semester

Prerequisite: Computer Applications

Description: In Computer Publishing, students will create the school yearbook using *Jostens Yeartech* software online. The school yearbook is created in an online environment giving the students the ability to work on the yearbook from home or anywhere they have an internet connection. The students will also do all of the digital photography and upload the photos to the Jostens site. The students will also learn digital photography and editing of photos in *Adobe Photoshop CS5*. The students will develop a portfolio of various photo types in the first semester. In the second semester the students will learn videography and video editing. Each student will write and direct one video in the second semester.

739 Computer Information Systems

**Dual Credit with SMCC (CIS105)

Grade: 11, 12

Taught: Full Year

Teacher: V. Steinmetz

Credit: .5 per semester

Prerequisite: none

Description: Computer Information Systems introduces students to computer basics, word processing, spreadsheets, databases, presentation software, networking, programming, web page design and use of the internet. CIS105 is a prerequisite for most CIS college courses. It transfers to ASU as CSE180 and satisfies the Computer/Statistics (CS) requirement.

741 Freshman Computer Applications

Grade: 09

Taught: full year

Teacher: V. Steinmetz

Credit: .2 per semester

Prerequisite: None

Description: Students will learn the most important topics of Microsoft Word and PowerPoint. No prior computer experience is assumed. Students will learn to use Microsoft Word to create and edit a word document, include graphics and tables. Students will then learn how to use Microsoft PowerPoint. Topics include printing existing presentations, creating a new presentation with text, clip art, and sound, and building and modifying charts and tables. A PowerPoint presentation and 2 page paper will be the final project for this course. Microsoft Office 2010 will be used to complete all assignments. Keyboarding proficiency will be beneficial for this class.

743 Robotics

(Available 2017-2018)

Grade: 11, 12

Taught: full year

Teacher: V. Steinmetz

Credit: .5 per semester

Prerequisite: None

Fee: \$250

Description: *LabVIEW™ Lessons* utilizes the *LabVIEW* and *LEGO® MINDSTORMS®* platform as a tool in the classroom for teaching engineering, science, math, critical thinking, and most of all, creative problem solving. It features a number of activities designed to develop students' computational thinking and engineering design skills through the presentation of open-ended problems. With these problems, every team of students will have a different answer, enabling them to learn not only from their mistakes and successes but also from the mistakes and successes of their fellow classmates. The book also includes classroom management tips, introductory activities for the *NXT*, tutorials for teaching *LabVIEW* programming, advanced *LabVIEW* programming lessons, and much more. Each team of students will complete a project resulting in a functioning *LEGO® MINDSTORMS®* robot.

744 Computer Applications 2

Grade: 10

Taught: full year

Teacher: V. Steinmetz

Credit: .5 per semester

Prerequisite: Freshman Computer Applications

Description: Students will learn the most important topics of Microsoft Excel, Access and Publisher. Students will learn to use Microsoft Excel to create and edit worksheets, use functions, enhance worksheets with graphics and charts, and work with multiple worksheets and workbooks. Next students will learn to use Microsoft Access to create and edit databases, create queries in a database, create forms in a database, create reports in a database, and finally merge access with other Office applications. Finally students will learn to use Microsoft Publisher to create publications in Publisher 2010. The final project will be a Capstone Simulation. Microsoft Word and PowerPoint will be required knowledge to take this course.

802 Weight Training

Grade: 10, 11, 12

Taught: full year

Teacher: S. Hill

Credit: .5 per semester

Prerequisite: none

Description: Weight training class is designed for the serious athlete that cannot fit weight lifting into his/her busy sports schedule and students that are committed to a high level aerobic and weight training program. Free weights, plyometrics, and conditioning will be integrated to train the entire body and increase strength and speed.

808 Physical Education/Health

Grade: 9, 10, 11, 12

Taught: full year

Teacher: B. Edmundson

Credit: .5 per semester

Prerequisite: none

Description: Physical Education strives to give students knowledge and skills needed to improve and maintain healthy bodies now and in the future. Students are given the opportunity for physical activity and exercise while developing positive habits for a healthy lifestyle. Knowledge and understanding of the basic principles of good health allows students to care for their bodies.

901 Service

Grade: 11, 12

Taught: 1 semester or full year

Teacher: Various

Credit: .25 per semester

Prerequisite: none

Description: Service work on campus for credit may include assisting a teacher or working in the school office. This may not be used to fulfill required service hours, since school credit is given.

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Online Courses through ALHSO***

Latin 1

Grade: 11-12

Taught: full year

Teacher: Mathew Schaeve (HVLHS)

Credit: .5 per semester

Prerequisite: None

Description: First year Latin for high school students. Students will begin a study of the Latin language as well as a familiarity with Roman culture and customs. The course also includes a rigid study of Latin vocabables, syntax and translation. There are frequent quizzes to test the current skills of the students and numerous exercises in translation and grammar.

Latin 2

Grade: 11-12

Taught: full year

Teacher: Karl Peterson (retired)

Credit: .5 per semester

Prerequisite: Latin I

Description: Latin 2 will be a continuation of Latin 1.

German 1

Grade: 11-12

Taught: full year

Teacher: Jean Neitzel (retired)

Credit: .5 per semester

Prerequisite: None

Description: The major objective of the course is to teach students the basic components of an inflected language. This objective is met by teaching the pronunciation of the German language, the grammatical structure of sentences, teaching simple phrases, and basic translating. The student will develop a vocabulary of approximately 750 words and phrases.

German 2

Grade: 11-12

Taught: full year

Teacher: Jean Neitzel (retired)

Credit: .5 per semester

Prerequisite: German 1

Description: German 2 will be a continuation of German 1.

AP Environmental Science *

Grade: 11-12

Taught: full year

Teacher: Paul Boehlke (retired)

Credit: .5 per semester

Prerequisite: 2 years of laboratory science

Description: An overview of components of ecosystems, including energy flow and the structure and dynamics of populations and communities. Students review the processes that affect natural environments, examine the impact of human

activities on ecosystems, and discuss current environmental issues. The course is designed to prepare high school students to take the College Board AP exam on this subject. Throughout the course the student is encouraged to demonstrate love for God through respect for His artistic work and love for neighbor in that others are not hurt or harmed by how we act. Field projects will be required.

AP Psychology *

Grade: 11-12

Taught: full year

Teacher: Greg Bork (Apostles, San Jose, CA)

Credit: .5 per semester

Prerequisite: None

Description: Course designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

AP US History

Grade: 11-12

Taught: full year

Teacher:

Credit: .5 per semester

Prerequisite: None

Description: A college-level course designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship. Students develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

Chinese

Grade: 11-12

Taught: Spring semester

Teacher:

Credit: .5 per semester

Prerequisite: None, but basic computer knowledge is assumed
Description: An introduction to the Mandarin Chinese language and culture that includes listening, reading, writing, and speaking.

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Online Courses through Bethany Lutheran College***

Introduction to Fiction

Grade: 11, 12

Taught: full year

Teacher:

Credit: .5 per semester

Description: This course introduces literary terminology most commonly used in discussing and writing about short stories and novels. British and American literature is selected from the 19th - 21st centuries. Emphasis is placed on relationships between authors' lives and their fiction, as well as individual works of fiction that have influenced other authors' fiction. Cultural literacy is also addressed, with a focus on the research of literary allusions.

College Algebra

Grade: 11, 12

Taught: full year

Teacher:

Credit: .5 per semester

Description: A study of functions, starting with the definition and focusing on the use of functions in all forms to model the real world. Includes comparing linear and nonlinear functions, transforming functions, looking at polynomial and rational functions globally and locally, models of growth and decline of systems and equations. (Students need to be proficient in mathematical thought and reasoning developed through the study of polynomials, factoring, rational expressions, roots and radicals, quadratic equations, functions and graphing.)

Statistics

Grade: 11, 12

Taught: full year

Teacher:

Credit: .5 per semester

Description: Beginning statistical theory and practice are introduced through topics of data collection, sampling techniques, organization and presentation of data, measurement of central tendency, probability concepts, discrete and continuous probability distributions, statistical estimation, hypothesis testing, correlation analysis, linear regression and analysis of variance.

Introduction to Mass Media

Grade: 11, 12

Taught: full year

Teacher:

Credit: .5 per semester

Description: Through study of the nature, functions, and responsibilities of the various print and electronic media, students are encouraged toward intelligent appraisal of the contributions and effects of mass media on the individuals and on our culture.

Music Appreciation

Grade: 11, 12

Taught: full year

Teacher:

Credit: .5 per semester

Description: Introduction to music as artistic expression. No musical background necessary for this course.

College Writing I

Grade: 11, 12

Taught: full year

Teacher:

Credit: .5 per semester

Description: Through a variety of writing assignments and activities, successful students of ENGL110 will learn to generate ideas, experiment with ways to express them, and craft their thinking on paper into effective, reader-based prose both for academic and creative settings.

Notes:

- * The Advanced Placement test may be taken in Spring 2017 as the culmination of this course. College credit can be earned, depending upon the test score and the college.
- ** Dual Credit with South Mountain Community College
- *** There may be an extra fee for these courses.