

ARIZONA LUTHERAN ACADEMY - CURRICULUM GUIDE 2020-2021

021 Introduction to Literature & Composition

Grade: 9

Taught: full year

Teacher: B. Wells

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 & Composition

Grade: 10

Taught: full year

Teacher: S. List

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 & Composition

Grade: 11

Taught: full year

Teacher: S. List

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 & Composition

Grade: 12

Taught: full year

Teacher: B. Wells

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.

028 AP® English Literature & Composition

Grade: 12

Taught: full year

Teacher: B. Wells

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

Description: 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: L. Stahmann

Credit: .5 per semester

Description: 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.

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ARIZONA LUTHERAN ACADEMY - CURRICULUM GUIDE 2020-2021

102 Algebra I

120 Honors Algebra I

Grade: 9, 10

Taught: full year

Teacher: M. Heyn

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: M. Steiner

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: M. Heyn

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.

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: J. Severeid

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.

114 Statistics

119 Honors Statistics

Grade: 11,12

Taught: full year

Teacher: M. Heyn

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.

ARIZONA LUTHERAN ACADEMY - CURRICULUM GUIDE 2020-2021

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: Pre-calculus

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. Groth, G. Gray

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: 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

(Not offered 2020-21)

Grade: 11, 12

Taught: full year

Teacher: A. Wiechmann

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.

204 Physics

Grade: 11, 12

Taught: full year

Teacher: A. Wiechmann

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.

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205 AP® Biology

* Advanced Placement®

Grade: 11, 12

Taught: full year

Teacher: G. Gray

Credit: .5 per semester

Prerequisites: Biology, Anatomy & Physiology

Description: The AP biology course prepares students for the AP Exam and further study in health sciences. This course has been authorized by the 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: A. Wiechmann

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.

303 U.S. History

Grade: 11

Taught: full year

Teacher: J. St. Germaine

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

315 Honors 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

318 Honors 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: J. St. Germaine

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

* Advanced Placement®

Grade: 11, 12

Taught: full year

Teacher: J. St. Germaine, D. Meyer

Credit: .5

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.

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311 World History

(Not offered 2020-21)

Grade: 10, 11, 12

Taught: full year

Teacher: J. St. Germaine

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: 9, 10, 11, 12

Taught: full year

Teacher: TBD

Credit: .5 per semester

Description: 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 Joshua and the Conquest of Canaan relating Biblical truths to basic questions of life, as well as discussing the following topical studies: Introduction to the Bible, Christian Culture, Christian Leadership, Witnessing 101, and Hot Topics for Teens. 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. Priebe

Credit: .5 per semester

Prerequisite: None

Description: This course will cover the content from Judges through the Divided Kingdom. The course focuses primarily on the life of King David and the messages from the Prophet Isaiah. The remainder of the class will focus on topical units of experiences that young Christian students will have to deal with in the world.

408 Life of Christ & Christian Living

Grade: 10

Taught: 1 semester

Teacher: B. Priebe

Credit: .5 per semester

Prerequisite: None

Description: This class will cover the four Gospels and elements of Christian Living. The remainder of the class will cover topical units dealing with the daily life of a young Christian adult.

409 World Religions

Grade: 11

Taught: 1 semester

Teacher: L. Stahmann

Credit: .5 per semester

Prerequisite: None

Description: Time is spent discussing the world's major non-Christian religions. 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. Special units will include a focus on the authenticity of the Bible, proving and defending Christian doctrine with historical, logical and Biblical evidence (apologetics), Christian leadership, and the issue of cheating among high school students today.

410 Spread of the Early Christian Church

Grade: 11

Taught: 1 semester

Teachers: L. Stahmann

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 Timely Teen Topics such as Propriety in Social Media, Homosexuality, Bullying, and Christian principles of money management.

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. We will cover the New Testament's general epistles, the book of Revelation and the following topical courses: Christian Life Planning, Marriage and Sexuality, Apologetics, Christian Stewardship/FPU (Financial Peace University - a practical guide in wisely using the blessings God has given us), Comparison of Christian Churches, Differences among Lutherans, and Christian Leadership.

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Emphasis is placed on applying God's truth in our everyday lives and defending the truth of Scripture as we witness in college and beyond.

413 Introduction to Christianity

Grade: 9, 10, 11, 12

Taught: full year

Teacher: B. Bode

Credit: .5 per semester

Prerequisite: None

Description: ESL Religion - Students will be introduced to the Bible and Christianity through the use of the Basic Bible Christianity – a study in the truths of Christian Faith. 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.

414 Christian Health & Wellness

Grade: 9

Taught: full year

Teacher: A. Wiechmann

Credit: 0.2 per semester

Description: Christian Health and Wellness is a mandatory course for all freshmen students focused on developing and maintaining overall health during the high school years and beyond. The beginning of this course acts as orientation to high school and high school procedures at ALA. Building spiritual, mental, emotional, and physical habits, wellness, and resiliency is the focus for the rest of the school year. Dealing appropriately with stress, proper Christian use of technology and social media, and developing a Christian identity as a young adult are just some of the topics that will be addressed.

501 Spanish I

Grade: 9, 10, 11

Taught: full year

Teacher: M. Aleisa

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 through the use of storytelling. The students will begin to speak, read, write, and listen to the Spanish language from the first day of class.

502 Spanish II

Grade: 9, 10, 11, 12

Taught: full year

Teacher: M. Aleisa

Credit: .5 per semester

Prerequisite: Spanish I with at least a "C"

Description: Spanish II builds from the foundation created in Spanish I. The students will learn more advanced grammar and

a wider range of vocabulary through the use of storytelling. We will begin to use Bible stories and fairy tales as comprehensible input. The students will begin to speak, read, write, and listen to the Spanish language from the first day of class.

508 Spanish III

Grade: 10, 11, 12

Taught: full year

Teacher: M. Aleisa

Credit: .5 per semester

Prerequisite: Spanish II

Description: Spanish III is a literature- and film-based course. Students will write in full paragraphs and defend their opinions on a wide variety of relatable topics as we explore Spanish countries, authors, and producers. Students are expected to speak Spanish in the classroom.

516 AP® Spanish Literature and Culture

(offered in 2020-2021)

517 AP® Spanish Language and Culture

(not offered in 2020-2021)

Grade: 11, 12

Taught: full year

Teacher: M. Aleisa

Credit: .5 per semester

Prerequisite: Spanish III

Description: AP Spanish is a course that will cover both "Literature and Culture" and "Language and Culture" in a two year block. The Language and Culture course (Year 1) emphasizes communication—understanding and being understood by others—by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This course requires a considerable amount of time spent in the Spanish language and daily practice of its use. The Literature and Culture course (Year 2) emphasizes comprehension—understanding written and spoken word—by studying authors from Spain, Latin America, and the United States. This course requires a considerable amount of time spent reading and writing in the target language.

604 Band

Grade: 9, 10, 11, 12

Taught: full year

Teacher: J. Severeid

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.

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1608 Basic Music

1607 Honors Basic Music

Grade: 9

Taught: full year

Teacher: J. Severeid

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).

605 Concert Choir

Grade: 10, 11, 12

Taught: full year

Teacher: J. Severeid

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.

606 A Cappella Choir

Grade: 10, 11, 12

Taught: full year

Teacher: J. Severeid

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 chapels 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.

645 World Art

(Not offered 2020-21)

Grade: 9, 10, 11, 12

Taught: full year

Teacher: S. Marquez

Credit: .5 per semester

Description: World Art is a broad exploration into the history of visual art from different countries around the world. By way of cultural and thematic approach, students will become familiar with a selection of significant art periods, contemporary and historical artists, their artworks, and real world topics regarding art. Written observations will be required for some projects and assignments. Projects that reflect the styles of artists will

be assigned. A written detailed description will accompany some projects. Each student will be required to display some of their projects at an art show at the end of the school year.

646 Art Across America

Grade: 9, 10, 11, 12

Taught: full year

Teacher: S. Marquez

Credit: .5 per semester

Description: Art Across America is a course where you will examine the unique qualities (elements and principals) of art and learn to appreciate its use in our history. You will be exposed to many past cultures and learn to appreciate how art was used to serve many purposes in each one. You will learn to see yourself as a uniquely talented artist and see how you can use your gifts to be a blessing to God's kingdom.

648 Creative Christian Art

(Not offered 2020-21)

Grade: 9, 10, 11, 12

Taught: full year

Teacher: S. Marquez

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: 9, 10, 11, 12

Taught: full year

Teacher: S. Marquez

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.

1610 Studio Art

(Not offered 2020-21)

Grade: 9, 10, 11, 12

Taught: full year

Teacher: S. Marquez

Credit: .5 per semester

Description: Studio in Art is designed to be an exploration in art and sculpture and an opportunity for students to create three-dimensional art. Emphasis is placed on understanding the Elements of Art and Principles of Design as a basis for composition. Students will explore a variety of artists, art processes and materials such as drawing, painting, printmaking, two & three-dimensional design, and digital art. Students will also explore the element of form using a variety of materials such as clay, plaster, wood and metal. Student artwork will reflect aesthetics, cultural and historical contexts. A written detailed description will accompany some projects. Each

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student will be required to display some of their projects at an art show at the end of the school year. Willingness to get involved in the creative process is a more important requirement than student's talent or previous experience.

739 Computer Information Systems

**Dual Credit with SMCC (CIS105)

(Not offered 2020-21)

Grade: 11, 12

Taught: Full Year

Teacher: M. Groth

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.

743 Robotics

Grade: 10, 11, 12

Taught: full year

Teacher: M. Groth

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.

748 AP® Computer Science Principles

* Advanced Placement®

(Not offered 2020-21)

Grade: 10, 11, 12

Taught: full year

Teacher: M. Groth

Credit: .5 per semester

Description: AP Computer Science Principles introduces you to the foundations of computer science with a focus on how computing powers the world. Along with the fundamentals of computing, you will learn to analyze data, create technology that has a practical impact, and gain a broader understanding of how computer science impacts people and society. The AP

CSP course is organized around seven **big ideas**, which are essential to studying computer science.

1700 Digital Media & Design

Grade: 10, 11, 12

Taught: full year

Teacher: M. Groth

Credit: .5 per semester

Description: In Digital Media & Design, students will create the school yearbook using Jostens 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. The students will develop a portfolio of various photo types. Students will also produce thirty-second to five-minute videos throughout the course of the year. Each project will follow the basic production elements (pre-production, shooting, editing, and post-production) while utilizing the basic cinematography vocabulary. Additionally, students will learn how to correctly operate camera equipment and entry-level computer software. Though students will have some individualized assignments, cooperative group-work will be the main pattern during class. All students will be expected to work in small groups to successfully complete this class.

1701 Computer Office 1 & 2

(Not offered 2020-21)

Grade: 10, 11, 12

Taught: full year

Teacher: M. Groth

Credit: .5 per semester

Prerequisite: Freshmen Computer Application

Description: Students will learn advanced topics in Microsoft, PowerPoint and Excel. Students will learn to use Microsoft Access to create and edit databases, create queries, forms, and reports in a database, and merge Access with other Office applications. Finally students will learn to use Microsoft Publisher to create publications. The final project will be a Capstone Simulation applying all of the Microsoft applications. The students will use Understanding Computers in a Changing Society to enhance their critical thinking skills as well as learn ethics and safety for using the internet.

1702 STEM Introduction to Engineering Design

Grade: 10, 11, 12

Taught: full year

Teacher: M. Groth

Credit: .5 per semester

Introduction to Engineering Design allows students insight to the engineering profession and a common approach to the solution of engineering problems, an engineering design process. Through both individual and collaborative team activities, projects and problems, students will solve problems

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as they practice common engineering design and development protocols such as project management and peer review. Students will develop skill in technical representation and documentation of design solution according to accepted technical standards and they will use current 3D design and modeling software to represent and communicate solutions. In addition, the development of computational methods that are commonly used in engineering problem solving, including statistical analysis and mathematical modeling, are emphasized. Ethical issues related to professional practice and product development are also presented.

802 Weight Training

Grade: 10, 11, 12

Taught: full year

Teacher: D. Peter

Credit: .5 per semester

Prerequisite: none

Description: Weight training class is designed for the serious athlete who 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: D. Peter

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: Varies

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.

Notes:

- * The Advanced Placement® test may be taken in Spring 2021 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.

ARIZONA LUTHERAN ACADEMY - CURRICULUM GUIDE 2020-2021

Online Courses through ALHSO***

Latin 1

Grade: 11-12

Taught: full year

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 vocables, 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

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

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

Credit: .5 per semester

Prerequisite: German 1

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

AP Environmental Science

*Advanced Placement

Grade: 11-12

Taught: full year

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

*Advanced Placement

Grade: 11-12

Taught: full year

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

*Advanced Placement

Grade: 11-12

Taught: full year

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

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.

ARIZONA LUTHERAN ACADEMY - CURRICULUM GUIDE 2020-2021

How the Church Grows

Grade: 11, 12

Taught: full year

Credit: .5 per semester

Prerequisite: None

Description: A careful examination of the spread and growth of the Christian Church in the First Century as recorded in the book of Acts. This study will also provide a framework for understanding the epistles of the New Testament.

*** There may be an extra fee for these courses.

ARIZONA LUTHERAN ACADEMY - CURRICULUM GUIDE 2020-2021

Online Dual Credit Courses through Bethany Lutheran College***

Introduction to Theatre

Grade: 11, 12

Taught: one semester

Credit: .5 per semester

Description: A class designed to acquaint students with the theatre arts. Play and text readings, the viewing of live performances, critical writing assignments, and group discussion will be utilized to enhance understanding and appreciation for the art as a whole.

Criminal Deviance and Justice

Grade: 11, 12

Taught: one semester

Credit: .5 per semester

Description: A class designed to acquaint students with the theatre arts. Play and text readings, the viewing of live performances, critical writing assignments, and group discussion will be utilized to enhance understanding and appreciation for the art as a whole.

General Psychology

Grade: 11, 12

Taught: one semester

Credit: .5 per semester

Description: Provides an overview of the major concepts of psychology viewed through contrasting perspectives and gives students a general knowledge base pertaining to the field. A wide range of topics are covered, including: biological influences, learning and memory, development, social factors, abnormal behavior, and therapy. Emphasis is placed on the relevance of psychology to everyday life and faith.

Introduction to Fiction

Grade: 11, 12

Taught: one semester

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: one semester

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: one semester

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: one semester

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: one semester

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: one semester

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.

*** There may be an extra fee for these courses.