

A close-up photograph of a tiger's face, showing its distinctive orange and black stripes and intense yellow eyes. The tiger is looking slightly to the left of the camera.

**Course Description Guide**

**Albert Lea High School**

**2019-2020**

## ***Grades 9-12***

**Albert Lea High School  
2000 Tiger Lane  
Albert Lea, MN 56007  
507.379.5340**



**ALBERT LEA**  
SCHOOL DISTRICT 241

*(Revised May 2019)*

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# MINIMUM ALHS GRADUATION REQUIREMENTS

Students must earn 46 academic credits to meet Minnesota Graduation Requirements. A semester course is equivalent to 1 academic credit. (Semester course = 1 credit / Year-long course = 2 credits)

<b>Graduation Requirement: 46 Total Credits*</b>					
<b>Subject</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>	<b>Total Credits</b>
<b>English</b>	2 Cr	2 Cr	2 Cr	2 Cr	<b>8</b>
<b>Math</b>	2 Cr	2 Cr	2 Cr	--	<b>6</b>
<b>Science</b>	2 Cr	2 Cr	2 Cr	--	<b>6</b>
<b>Social Studies</b>	2 Cr	1 Cr	2 Cr	1 Cr	<b>6</b>
<b>Phy Ed/Health</b>	1 Cr	1 Cr	--	--	<b>2</b>
<b>Economics</b>	--	--	--	1 Cr	<b>1</b>
<b>Fine Arts</b>	2 Total Fine Arts Credits Req'd				<b>2</b>
<b>Electives</b>	15 Total Elective Credits				<b>15</b>
ALHS Graduation Requirement					<b>46</b>

## ALHS School Counselors

Students with last names **A-G**: Ms. Fischer 379-5360  
 Students with last names **H-O**: Ms. Lageson 379-5357  
 Students with last names **P-Z**: Ms. Lommen 379-5355



# AGRICULTURE

## **INTRO TO AGRICULTURE**

Prerequisite: none

Course: 3106011 – 1 credit

Grade: 9-10

This is an introductory class to the world of careers, leadership, and agriculture. Agriculture units will include: plant and animal science, natural resources, and horticulture. In the career exploration section, students will be introduced to the world of work and have the opportunity to research areas of interest. Using the FFA organization as a model, this class will stress premier leadership, personal growth, and career success.

## **SMALL ANIMAL CARE & MANAGEMENT**

Prerequisite: none

Course: 3106071 – 1 credit

Grade: 9-12

This course deals with the care and handling, selection and breeding, and special issues relating to companion animals. These animals include dogs, cats, horses, birds, fish, small mammals, and reptiles. Specific activities include training, feeding, teeth care, and general care and health maintenance of the animal. Units in animal rights/welfare and career exploration will also be included. This is an excellent course for pet owners and for students interested in pursuing a career in veterinarian medicine or other animal care careers. FFA, an inter-curricular organization of the Agriculture program, will be discussed in this class.

## **ANIMAL SCIENCE**

Prerequisite: none

Course: 3106021 – 1 credit

Grade: 10-12

This course is an introduction to the field of Animal Science. Species covered include beef, sheep, swine, and horses. We will cover selection and evaluation, current topics, and product utilization. Animal Science from a consumer standpoint will be stressed. Financial Record keeping will also be covered in this course. This is an excellent course for students interested in pursuing a career in veterinarian medicine or other animal care careers. FFA, an inter-curricular organization of the Agriculture program, will be discussed in this class.

## **WILDLIFE AND NATURAL RESOURCE MANAGEMENT**

Prerequisite: none

Course: 3106032 – 1 credit

Grade: 10-12

This course will introduce students to the very broad and complex topics of wildlife and natural resource management. Content will include the basic needs of wildlife as well as the specific needs of the most common species. The environmental and social aspects of natural resources will also be covered. The course will be activity oriented with projects and an outdoor environmental study. FFA, an inter-curricular organization of the Agriculture program, will be discussed in this class.

## **EQUINE (HORSE) SCIENCE Offered 2019-2020 and 2021-2022**

Prerequisite: none

Course: 3106061 – 1 credit

Grade: 10-12

This course is designed to enable students to acquire knowledge and develop the skills necessary to be successful in the horse industry. A wide range of topics will be studied including judging, selling, selection, reproduction, nutrition, horsemanship, and disease control. In addition, we will look at the environmental and housing requirements of horses and the factors to consider when buying a horse. The course materials will be presented in a variety of formats and hands-on activities will be utilized whenever appropriate. FFA, an inter-curricular organization of the Agriculture program, will be discussed in this class.

**LANDSCAPE/HORTICULTURE**

Prerequisite: Biology or General Biology

Course: 3106093 – 1 credit

Grade: 11-12

This course is designed to introduce students to the fields of horticulture and landscaping by demonstrating their relationship with each other. Time will be spent focusing on plants and flowers that are common to home or commercial greenhouses, as well as focusing on landscape maintenance, construction, and design. Students will learn about basic botany, plant identification and care, floral arranging, plant propagation, and commercial plant production. Much of the second half of the course will be spent working and landscaping the school grounds. Students should be motivated to do design as well as physical labor. FFA, an inter-curricular organization of the Agriculture program, will be discussed in this class.

# ART & PHOTOGRAPHY

*A ★ means that the class meets the Fine Arts graduation requirement.  
You must have at least 2 Fine Arts credits for graduation.*

**DRAWING A ★**

Prerequisite: none

Course: 3106221 – 1 credit

Grade: 9-12

This course will provide students with a comprehensive introduction to drawing that can be used as a foundation for future art classes. Students will complete a sequence of studies that will develop drawing techniques and skills using a variety of drawing media. Students will draw from life, photos, and make studies of other artists' work while studying the creative process and means of expression. Students who pass this class with a grade C or above are eligible to take Drawing B.

**DRAWING B ★**

Prerequisite: Drawing A with a grade C or higher

Course: 3106222 – 1 credit

Grade: 10-12

Drawing B continues to develop skills and techniques in a variety of drawing medium. Students will draw from life, photos and make studies of other artists' work. Students will also study the creative process and the means of expression. Students must pass Drawing A with a grade of C or above to be eligible to take this course.

**MIXED MEDIA A ★**

Prerequisite: none

Course: 3106211 – 1 credit

Grade: 9-12

Mixed Media A is designed to explore a variety of materials. We will mix materials and art methods to create a sampling of projects that may include collage, baskets, printmaking, and recycled art. Anyone who enjoys using their creativity should consider taking this class.

**SCULPTURE & CERAMICS A ★**

Prerequisite: none

Course: 3106231 – 1 credit

Grade: 9-12

This is an introductory course in sculpture. A variety of projects will be assigned to explore different methods of building. Some materials that may be used include paper mache, recycled items, and clay. Art history and written assignments will also be part of this course.

**SCULPTURE & CERAMICS B** ★

Prerequisite: Sculpture A

Course: 3106232 – 1 credit

Grade: 10-12

This course is designed to build upon the skills and techniques learned in Sculpture A. Students will continue to explore different methods of building and incorporate art history and written assignments into their learning. Students must pass Sculpture A with a grade of a C or above to be eligible to take this course.

**BLACK & WHITE PHOTOGRAPHY** ★

Prerequisite: none

Course: 3106252 – 1 credit

Grade: 10-12

Black & White Photography is a fun and useful course whether you plan to start a career in photography or simply want to make better pictures. You will learn how to operate a 35 mm camera, develop film, and make prints. You will study the history of photography and research influential photographers. Cameras and film provided.

**DIGITAL ART** ★

Prerequisite: none

Course: 3106250 – 1 credit

Grade: 10-12

Digital Art is an introductory course that teaches the fundamental techniques and tools in Adobe Photoshop. Adobe Photoshop is a computer program widely used in graphic and web design, animation, and many other professional fields. It is recommended that students have their own digital camera, or phone with a camera, but it is not necessary to take the class.

**PAINTING** ★

Prerequisite: Drawing A

Course: 3106241 – 1 credit

Grade: 10-12

Explore the world of painting by examining the creative process. Students will work to develop their compositional skills and painting techniques in watercolor, ink, and acrylic painting. Students must pass Drawing A with a grade of C or above to be eligible to take this course.

## BUSINESS & VIDEO

**COMPUTER SYSTEMS**

Prerequisite: none

Course: 3107003 – 1 credit

Grade: 9-12

This course will cover the topics needed to have a working knowledge of the personal computer system. Topics covered will include: the history of computers, computer hardware, computer security, information technology careers, and web page design.

**GAME PROGRAMMING and DESIGN**

Prerequisite: 9<sup>th</sup> grade students must have completed Advanced Algebra 8 A & B

10<sup>th</sup>-12<sup>th</sup> grade students must have completed Intermediate Algebra A & B

Course: TBD – 1 credit

Grades 9-12

GAME Programming and Design is an introductory course to computer game design and development that engages students in project-based learning. GAME Programming and Design is about designing and building computer games. In addition to building games through the use of code, students learn the components of how gaming is used in the 'real' world, what goes into designing quality games, what separates good games from bad games, the gaming and engineering design cycle, and much more.

**PERSONAL FINANCE**Prerequisite: none

Course: 3107006 – 1 credit

Grade: 10-12

This course provides students with hands-on experiences on how to obtain, manage, and build their financial resources through computer simulations, industry professional visits, and personal reflections projects. This class will promote personal and financial independence by gaining an understanding of their financial options. Students will examine benefits and consequences of properly managing or mismanaging their personal wealth. Students will learn how budgeting, saving, and investing impact financial freedom. They will learn strategies to wisely invest money in stocks, bonds, and mutual funds. Students learn how to select financing and insurance for cars, apartments, and homes. Other topics of instruction include managing debt and credit, credit scores, credit reports, basics of taxes, and tax return preparation. This is an excellent class to prepare students for a financially secure and independent life after high school.

**SMALL BUSINESS OWNERSHIP**Prerequisite: none

Course: 3107050 – 1 credit

Grade: 10-12

This course is designed to have students create and maintain inventory records, financial records, marketing strategies, and make ethical decisions regarding running a small business. Students will also analyze business transactions and make decisions about product placement, business hours, financial decisions, and other elements that affect a business all through our online simulations.

**VIDEO PRODUCTION** ★ *(meets Fine Arts requirement)*Prerequisite: none

Course: 3107310 – 1 credit

Grade: 10-12

This course deals with the exciting world of digital video and broadcast television. Students will learn the basic functions of video and editing. Video editing will be done primarily on the digital platform using Adobe Premiere, which is the industry standard.

**ACCOUNTING**Prerequisite: none

Course: 3107030 – 1 credit

Grade: 11-12

This is a basic introduction to accounting principles and is a valuable background for students interested in business. We deal with the financial operations and flow of money through a business. Accounting is strongly recommended for all students considering a business career.

**CIS-INTRO TO COMPUTERS** Offered 2019-2020 and 2021-2022Prerequisite: PSEO eligible; Accuplacer Test

Course: 3107010 – 1 credit

*Riverland BUSO 1648 –3 college credits*

Grade: 11-12

This college course covers basic information about computer hardware and software as a business productivity tool as well as for personal use. Topics covered include the operating system, fundamental word processing concepts, introduction to spreadsheet applications and database file management, presentation graphics, and e-mail usage. **This course meets only every other year. For juniors and seniors, this is your only opportunity to take this course. Word and Information Processing is recommended prior to taking this course.**

**TIGER VISION A & B**Prerequisite: Video Production with a grade of a "B" or better in both or instructor approval. Students must pass the 1<sup>st</sup> semester to continue taking the course 2<sup>nd</sup> semester.

Course: 3107311, 3107312 – 2 credits

Grade: 11-12

This is the leadership team for our daily news show, The Growl. Students will extend their video experience beyond Video Production. You will be involved in a variety of activities such as editing, taping, interviewing, writing, and speaking. We will do the advanced

planning and editing for The Growl. Students must be proficient with Adobe Premiere and other audio/video editing techniques. Course may be repeated to be on staff during senior year.

### **DIVERSIFIED WORK INTERNSHIP/DIVERSIFIED WORK SEMINAR A & B**

Prerequisite: 38 credits by beginning of senior year

Course: 3107223, 3107224 – 4 credits

Grade: 12

Work Release/Seminar permits students to attend school in the morning and to be employed in the afternoon. The Work Seminar portion of the course is taught by a certified work-based learning coordinator. Students will be required to attend the Work Seminar class every day for the first two weeks to complete employee agreements and to learn about safety and employee rights. After that, students will only be required to attend Work Seminar once a week to complete work reports and additional curriculum follow up. The Work Release portion of the course is on-the-job experience, including self-analysis, career development, technical information, working with others, and individual job study. Students must be employed at an instructor-approved worksite by the third day of the semester. Placement assistance will be provided, but a job is not guaranteed.

### **WORD AND INFORMATION PROCESSING Offered 2020-2021 and 2022-2023**

Prerequisite: none

Course: 3107001 – 1 credit

Grade: 9-12

~~Students will have the opportunity to format personal business letters, reports, tables, announcements, and compositions. This course is recommended for anyone wishing to use the computer at home or in school. Students will be using current Microsoft Office software and will become skilled at formatting techniques. This course will develop skills essential for other business computer courses. We strongly recommend completing this course during the freshman or sophomore year.~~

## Career Options

Albert Lea High School has partnered with Riverland Community College (RCC) to offer “Career Options” courses designed only for Albert Lea students. These courses will format as Post-Secondary Enrollment Options (PSEO) courses which are designed to allow students the opportunity to receive college credit while completing courses within an area of career interest. Career Options courses do not have a minimum class rank requirement. Additionally, students must meet specific course requirements as established by RCC prior to enrolling in each course. These standards include, but are not limited to, assessment test scores, program admission or other requirements. Please review the course prerequisites below as each course has its own unique requirements prior to taking the course. Students receiving a grade of C or better in the course shall be allowed to take additional career or technical education courses in subsequent terms.

### **FIREFIGHTER I**

Prerequisite: Parent & student meeting; (Riverland will recommend a minimum Accuplacer reading score of “52” for students to be eligible to enroll in the firefighter courses.)

Meeting times: The class is currently proposed for meeting times 2-3 1011

weekly for 3 ALHS class periods a day. (For example, Tues/Thurs periods 1st-3rd while other weeks might be Wed/Fri periods 1st-3rd, etc.) Final course schedule to be determined collaboratively by Riverland, ALFD, and ALHS with the understanding that the course schedule to be determined by August 1st. Classes will begin the first week of school for ALHS students.

Course: 3109985 – 2.5 credits; **5 college credits**

Grade: 11-12

This course will be offered on campus at Albert Lea High School and taught by Albert Lea Fire Department Firefighters who are state of Minnesota certified instructors. This class is designed to cover the necessary skills to perform the basic duties of firefighting including thought processes used to decide appropriate operations. This includes the duties of rescue, exposure protection, confining the fire, extinguishing the fire, overhaul, salvage and ventilation. Upon successful completion, participants will be eligible (18-years old+) for taking the Minnesota State Firefighter I Certification Board Exam. Participants are eligible for the Minnesota State Fire Certification Board exam. This class involves 36 hours of clinical, hands-on training.



**NURSING ASSISTANT**

Prerequisite: Parent & student meeting (Riverland will strongly recommend a minimum Accuplacer reading score of “62” for students to be eligible to enroll in the Nursing Assistant course.)

Length: Class meets 7:30am-9:30am, Monday – Friday at Riverland Community College (AL Campus) for approximately 7 weeks including 20 additional hours of clinical, hands-on training.

Course: 3109987 – 1.5 credits; **3 college credits**

Grade: 11-12

Are you considering a career in the medical field? This course offers students a unique opportunity to begin their journey into a health-related career. Offered through Riverland Community College, this 3-credit (RCC semester credits) course combines classroom and clinical experiences to prepare students for the MN Department of Health Nursing Assistant (CNA) written and skills competency exams. This course provides students with the theory, laboratory and clinical experience to meet state and federal criteria for employment as a nursing assistant in a nursing home or other long term care facility. Completion of this course enables the student to take the Nurse Aide Competency Evaluation. After successfully completing the competency evaluation, the student will be placed on the Minnesota Nursing Assistant Registry. (This class, in accordance with MN Department of Health requirements, has strict attendance requirements for earning course credit.)

# ENGINEERING

**INTRODUCTION TO ENGINEERING DESIGN A & B\***

Prerequisite: Intermediate Algebra A & B or Advanced Intermediate Algebra A & B or Advanced Algebra 8 A & B

Course: 3106501, 3106502 – 2 credits

Grade: 9-12

The Introduction to Engineering Design course will instruct students in the process of product design. Students will use computer modeling software to solve design problems as they develop, create, and analyze product models. Students who are interested in an engineering career would benefit from this class. This is a two semester course.

*\*Students who successfully complete this course with an average of 85% can earn **3 college credits** from the University of Minnesota or St. Cloud State University at a cost of \$100.*

**PRINCIPLES OF ENGINEERING A & B\***

Prerequisite: Intermediate Algebra A & B or Advanced Intermediate Algebra A & B or Advanced Algebra 8 A & B

Course: 3106503, 3106504 – 2 credits

Grade: 9-12

Students explore technology systems and manufacturing processes to discover how math, science, and technology help people. This course will develop student’s problem solving-skills through real-world engineering problems. Students will learn the key elements and skills of engineering and technology-based careers. Students who are interested in an engineering career would benefit from this class. This is a two semester course. *Introduction to Engineering Design is highly recommended prior to taking this course.*

*\*Students who successfully complete this course with an average of 85% can earn **3 college credits** from the University of Minnesota or St. Cloud State University at a cost of \$100.*

**DIGITAL ELECTRONICS A & B 2019-2020 and 2021-2022**

Prerequisite: Intermediate Algebra A & B or Advanced Intermediate Algebra A & B

Course: 3106505, 3106506 – 2 credits

Grade: 10-12

This is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. Students who are interested in an engineering career would benefit from this class.

*\*Students who successfully complete this course with an average of 85% can earn **3 college credits** from the University of Minnesota or St. Cloud State University at a cost of \$100.*

**CIVIL ENGINEERING & ARCHITECTURE A & B\* 2020-2021 and 2022-2023**

Prerequisite: Intermediate Algebra A & B or Advanced Intermediate Algebra A & B

Course: 3106507, 3106508 – 2 credits

Grade: 10-12

This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. Students who are interested in an engineering career would benefit from this class. This is a two semester course.

*\*Students who successfully complete this course with an average of 85% can earn **3 college credits** from the University of Minnesota or St. Cloud State University at a cost of \$100.*

# ENGLISH

## ENGLISH | REQUIREMENTS

**ENGLISH 9 A & B** 

Prerequisite: none

Course: 3100911, 3100912 – 2 credits

Grade: 9

English 9 is required of all 9<sup>th</sup> grade students. This is a general English course with work done in the areas of vocabulary, grammar, writing, literature, public speaking, and media literacy.

**ADVANCED ENGLISH 9 A & B** 

Prerequisite: Grade of “B” or above in 8<sup>th</sup> grade English

Course: 3100913, 3100914 – 2 credits

Grade: 9

This course is intended for the highly motivated student committed to academic excellence, and is best suited for students who have excelled in previous English classes. It provides a faster pace, as well as greater depth of study, with considerable attention given to higher level critical thinking in preparation for upper level courses.

**ENGLISH 10 A & B** 

Prerequisite: none

Course: 3101011, 3101012 – 2 credits

Grade: 10

This course meets the Grade 10 English requirement. This course has a general language arts focus and is designed to meet the language arts needs of all sophomores. Students will gain practical experience in reading, writing, speaking, vocabulary, and building good reading comprehension skills.

**ADVANCED ENGLISH 10 A & B** 

Prerequisite: Grade of “B” or above in 9<sup>th</sup> grade English

Course: 3101013, 3101014 – 2 credits

Grade: 10

This course is intended for the highly motivated student committed to academic excellence, and is best suited for students who have excelled in previous English classes. It provides a faster pace, as well as greater depth of study, with considerable attention given to higher level critical thinking in preparation for upper level courses.

## Grades 11 & 12 English Course Choices

Students will choose **two** courses, in any order, from lists below to fulfill their junior and senior English language requirements for graduation. Each course is a year-long and will include both reading and writing. Students may not repeat courses as they share some curriculum materials. Students may not choose both *American Literature and Writing* and *American Humanities English* or both *World Literature and Writing* and *Western Humanities English*.

*\*\*Exceptional 10<sup>th</sup> grade students who meet a GPA requirement and have a teacher recommendation may choose **three** courses from those listed below (instead of taking Advanced English 10).*

### AMERICAN LITERATURE AND WRITING A & B

Prerequisite: none

Course: 3100112, 3100113 – 2 credits

Grade: 11-12

This course is designed to meet an English language requirement for Juniors or Seniors. Students will study American writers and analyze how their work fits in certain identified themes from life and literature. In addition to literature and film, students will also focus on reading skills, vocabulary, practical writing, research, and speaking skills.

### WORLD LITERATURE AND WRITING A & B

Prerequisite: none

Course: 3100116, 3100117 – 2 credits

Grades: 11-12

This course is designed to meet an English language requirement for Juniors or Seniors. It will give the student a background in world literature by examining basic themes of the human condition. Literature and film from a variety of cultures and time periods are studied and related to our lives today. Developing critical thinking and practical writing skills are goals of this program.

### AMERICAN HUMANITIES ENGLISH A & B

Prerequisite: Advanced English 10 preferred

Course: 3100114, 3100115 – 2 credits

Grades: 11-12

This course is designed to meet an English language requirement for Juniors or Seniors. It is a chronological approach to American studies, integrating the study of American Literature, philosophy, and popular music of the pre-colonial era through the mid-twentieth century. Students enrolled in this course should be highly motivated and prepared for daily reading assignments, weekly writing assignments, and a second semester research paper. Students should also be prepared for mature, college-level content. This course is a companion to Social Studies Humanities 11.

### CIS-WESTERN HUMANITIES ENGLISH A & B

Prerequisite: PSEO eligible; Accuplacer Test; Advanced English 10 preferred; American Humanities recommended

Course: 3100118, 3100119 – 2 credits

Riverland HUMA 1101, 1102 – 6 college credits

Grades: 11-12

This course presents curriculum from the point of view of the cultural tradition of Western civilization in the fine arts. Areas of study include literature, philosophy, religion, music, art, and architecture. Humanities is designed for highly motivated students with a GPA of at least 3.0 who are prepared for daily reading assignments. This course is web-enabled, meaning students enrolling in this course should either have stable Internet access at home or be willing to regularly utilize web access elsewhere.

### AP ENGLISH LANGUAGE and COMPOSITION A & B

Prerequisite: Advanced English 10 preferred

Course: 3100110, 3100111 – 2 credits

Grades: 11-12

Advanced Placement English Language and Composition is a rigorous year-long course that corresponds to the specifications of the College Board. The focus of this course will be to analyze the language and components of argument employed by a variety of writers. Authors of such works include (but are not limited to): Derek Bok, Milena Ataya, Annie Dillard, Lars Eihner, Amy Tan, John F. Kennedy, Lynn Peril, Nathaniel Hawthorne, Nysey Williams, Jon Pareles, Henry David Thoreau, Martin Luther King, Jr., and William Shakespeare. Students will further their understanding of language and rhetoric by employing strategies and analysis in written

assignments. The course begins with smaller, student-selected research projects and papers and culminates with a large and extensive research paper. All assignments, readings, and compositions are designed to prepare students for success in the AP exam.

## ENGLISH | ELECTIVES

### **BEGINNING ACTING/THEATER** ★ *(meets Fine Arts requirement)*

Prerequisite: none

Course: 3101621 – 1 credit

Grade: 9-12

This course will study the history of theater and acting on the stage. Basic drama information, creative writing, and performing are all part of this class. This is a one-semester class that is open to students with an interest in the theater and drama.

### **ADVANCED ACTING/THEATER** Prerequisite: Beginning Acting/Theater

Course: 3101623 – 1 credit

Grade: 10-12

This course will study well-known plays and explore the philosophies and methods of theater arts. This course will enable the student to improve acting, writing, and theater production skills. This is a one-term course for students who have a very strong interest in the theater as a career or hobby. Some involvement (performance or technical aspects) on an actual school production will be required.

### **COMMUNICATIONS**

Prerequisite: none

Course: 31001504 -- 1 credit

Grade: 10-12

This course is designed for students to hone their communication skills of listening, interviewing, evaluating, and speaking. These skills are needed for students entering the workforce directly after high school, as well as for those continuing in post-secondary education. Ability and confidence with these skills will serve students in their future work, community, and family lives.

### **CREATIVE WRITING**

Prerequisite: none

Course: 3101441 – 1 credit

Grade: 10-12

Students in this course will have the opportunity to write creatively in a variety of genres as they explore form and technique used in creative nonfiction, fiction, drama, and poetry. This is a one-semester course open to students with a strong interest in creative writing as a hobby or career.

### **MEDIA & FILM STUDIES** ★ *(meets Fine Arts requirement)*

Prerequisite: none

Course: 3101630 – 1 credit

Grade: 10-12

This course examines the role of movies and video in our culture today. Students will gain insight into the art of filmmaking, developing literacy in directors' use of sights and sounds to entertain and manipulate audiences. This visual literacy will allow students to view film and all media with greater insight, enjoyment and understanding, and with less risk of being manipulated.

### **OnToCollege**

Prerequisite: none

Course: 3101120 -- 1/2 credit (**one quarter class**, paired with study hall the opposite quarter)

Grade: 10-12

This course is designed to prepare students for success on the ACT college entrance exam. Through overview of test expectations, review of section specific tips and strategies, frequent opportunities to practice, and exclusive access to the On-Course-to-College resources and website, students will gain knowledge and confidence before they take this important test.

**PUBLICATIONS | AhLaHaSa/Tiger Yearbook**

Prerequisite: Introduction to Journalism, Application, and Interview

Course: 3101501, 3101502 – 2 credits

Grade: 10-12

**Application Process:** Students interested in this course must complete Introduction to Journalism, course application, and an interview. Staff positions will be chosen by the leadership board. This lab class is designed to provide for the publication of the school newspaper, the *AhLaHaSa*, and the *Tiger Yearbook*. Class activities including interviewing, journalistic writing, layout and page design and editing. Also included are photography, advertisement sales, and promotional events. It is expected students will enroll in Publications all year. Students may repeat the course in order to be on the *AhLaHaSa* and *Tiger Yearbook* staffs their senior year. This is a blended online course. Classroom attendance is required on alternating days.

**INTRODUCTION TO JOURNALISM** 

Prerequisite: None

Course: 3101029 – 1 credit

Grade: 10-12

This course is set up as the prerequisite for students who want to join the *AhLaHaSa* newspaper or *Tiger Yearbook* staffs, although if you are simply interested in doing writing that is read by other people that is enough reason to sign up for this course. This course will help strengthen your writing skills and sharpen your analytical skills. This course will make college—which is intensive—easier. The course will culminate in the production of *The Sophisticate* newspaper.

**CIS-WRITING COLLEGE PAPERS** 

Prerequisite: PSEO eligible; Accuplacer

Course: 3101422 – 1 credit

*Riverland ENGL 1101 – 3 college credits*

Grades: 11, 12

This course is designed to teach effective writing at the college level. Students will learn composition and organization skills that will enable them to write better and more confidently. Effective writing is a process that requires thought and practice beyond the classroom. Students will master the rules and conventions for written Standard American English. Students will also learn how to write a variety of academic papers. *This is a blended online course. The class will be scheduled for either Period 1 or Period 7. Classroom attendance is required Monday, Wednesday, and Friday. Online instruction and assignments will occur on Tuesday and Thursday.*

# ENGLISH LEARNERS

English Learners programming is designed to meet the needs of English learner students. Students who have not met the state criteria for English proficiency are eligible for this program. A language other than English indicated on the home language survey along with the W-APT placement exam or other English proficiency test scores are required for admission into these classes. A student's programming consists of required academic classes as well as EL support in an appropriately leveled course.

**EL LEVEL 1 A & B**

Prerequisite: Home language survey; W-APT placement test

Course: 3101319, 3101320 – 2 credits

Grade: 8-12

Courses focus on providing basic social and academic English vocabulary. Emphasis of instruction varies based on students' English language proficiencies. Courses focus on developing vocabulary and language skills to enhance communication competencies in speaking, listening, reading, and writing. Courses introduce students to basic English structure and grammar.

**EL LEVEL 2 A & B**

Prerequisite: Home language survey; W-APT placement test

Course: 3101321, 3101322 – 2 credits

Grade: 8-12

Courses support development of language arts skills proficiency. Emphasis of instruction varies based on student language proficiency. Courses focus on developing vocabulary and language skills to enhance communication competencies in speaking,

listening, reading, and writing. Additional focuses on writing skills, including composition skills, such as paragraph development, sentence construction, mechanics, grammar, and use of writing process. Courses also provide support for content classes.

**EL LEVEL 3 A & B**

Prerequisite: Home language survey; W-APT placement test

Course: 3101323, 3101324 – 2 credits

Grade: 8-12

Courses support development of language arts skills proficiency. Typically, students read a variety of articles and novels, write a variety of compositions, and continue to develop listening and speaking skills. Emphasis of instruction varies based on student language proficiency and may include vocabulary instruction and progress monitoring paired with academic support for content classes.

**EL LEVEL 4 A & B**

Prerequisite: Home language survey; W-APT placement test

Course: 3101325, 3101326 – 2 credits

Grade: 8-12

Courses support development of language arts skills proficiency. Typically, students read a variety of articles and novels, write a variety of compositions, and continue to develop listening and speaking skills. Emphasis of instruction varies based on student language proficiency and may include vocabulary instruction and progress monitoring paired with academic support for content classes.

**EL RESOURCE A & B**

Prerequisite: Home language survey; W-APT placement test

Course: 3101337, 3101338 – 0 credit

Grade: 8-12

Courses will focus on providing academic support in content classes.

**SOCIAL STUDIES 9E A & B**

Prerequisite: W-APT placement test

Course: 3101345, 3101346 – 2 credits

Grade: 9-12

Courses meets the graduation requirement for the 9<sup>th</sup> grade Social Studies World History class.

**EL WRITING A & B**

Prerequisite: Home language survey; W-APT placement test

Course: 3101339, 3101340 – 2 credits

Grade: 8-12

Courses primarily support the development of academic writing skills. Emphasis of instruction varies based on students' writing proficiencies. Courses develop student academic vocabularies and strengthen their knowledge of grammar usage and mechanics. Students will learn how to adjust paragraph and essay structure to fit the desired format.

# FAMILY AND CONSUMER SCIENCES

**CHILD DEVELOPMENT**

Prerequisite: none

Course: 3106302 – 1 credit

Grade: 9-12

Child Development will provide students with a comprehensive overview from birth to school age children. Focus for the course will include building strong families, pregnancy and childbirth, the developing brain, discipline, communication and self-esteem through ages and stages. Child development will identify the key concepts of development in all areas including social, emotional, physical, intellectual and moral development.

**CLOTHING**

Prerequisite: none

Course: 3106341 – 1 credit

Grade: 9-12

The Clothing course focuses on beginner clothing construction. Students will learn about various construction techniques and work with different fabrics, equipment and skills. Design and fashion will also be topics that are included with this course. Students will need to supply the fabric and notions for their own projects. They will apply their knowledge and understanding in making basic items by hand and with a sewing machine.

**CREATIVE FOODS A**

Prerequisite: none

Course: 3106321 – 1 credit

Grade: 9-12

This is an introductory course valuable for all students. It is especially relevant for students interested in careers related to nutrition, food, and wellness. Major course topics include, nutrition principles and applications, influences on nutrition and wellness: food preparation, safety, and sanitation; and science, technology, and careers in nutrition and wellness. Laboratory experiences emphasize industry practices and develop basic skills necessary for post-secondary education or living on your own.

**CREATIVE FOODS B**

Prerequisite: Creative Foods A (with a passing grade of "C" or better during either quarter)

Course: 3106322 – 1 credit

Grade: 10-12

This course gives students the chance to have more advanced cooking experiences. You will demonstrate the ability to interpret recipes, use correct terminology, and the proper use of equipment. Nutrition will be examined and how it plays a role in our health. Budgeting food dollars and eating well for health are practiced. Students will explore various and demanding careers in the food industry.

**DECISIONS FOR LIVING**

Prerequisite: none

Course: 3106311 – 1 credit

Grade: 9-12

Decisions For Living will help students develop decision making skills needed to succeed in life both now and in the future. Students will be provided with opportunities to develop practical skills needed to meet the challenges of their daily lives with confidence. The course topics will include management of individual and family resources including food, clothing, shelter, transportation, and finances. There will also be opportunities to set goals and explore career opportunities.

**MENTORSHIP PROGRAM**

Prerequisite: Application process

Course: 3106355 – 1 credit

Grade: 11-12

Mentorship is an accelerated, individualized program for students who want to learn a new skill, develop an interest, or explore a career field under the supervision of a specialist in the community. Students will be placed with mentors in educational or business career fields. Following a brief training period, students spend the remainder of the semester observing and interacting within that career field. The student must exhibit maturity, responsibility, and the willingness to commit to the expectations of the mentorship program and career field specialist.

**Additional Guidelines:**

- 1- Students interested in mentorships should register for the course. Priority will be given to seniors.
- 2- The student obtains application materials from the Mentorship teacher or counselor.
- 3- The Mentorship teacher arranges the placement. The student will contact the mentor after successful completion of orientation.
- 4- No monetary compensation can be provided to the mentor or student.
- 5- Family members of mentorship students are not permitted to serve as a mentor for that student.

**TEACHER CADETS**

Prerequisite: Child Development or have a minimum GPA of 3.0 with teacher approval

Grade: 11-12

Course: 3106305 – 2 credits

This course will help students identify developmental needs of young children and how to help young children meet these needs within an educational setting. Emphasis on creating and utilizing appropriate developmental activities for children 0-8 years of age in various experiences. Students will spend 1 quarter in the classroom setting for their field experience. Students will have the possibility of earning concurrent credits upon successful completion of this course. **Students must provide their own transportation.**

# INDUSTRIAL TECHNOLOGY

Course offerings by area of interest; arrows show the order that classes should be taken to meet prerequisite.

<u>CONSTRUCTION</u>	<u>DESIGN</u>	<u>ENERGY/POWER</u>	<u>MANUFACTURING</u>	<u>TRANSPORTATION</u>	<u>ENGINEERING</u>
Basic Woods	Graphic Design	Digital Electronics	Machining & Manufacturing	Know Your Car	Intro. To Engineering Design A & B
↓ Advanced Woods Lab or Building Construction	Civil Engineering & Architecture	Residential Electricity	Welding	Small Engines	Principals of Engineering A & B
		↓ Advanced Residential Electricity	↓ Advanced Welding & Machining	↓ Advanced Small Engines	Digital Electronics A & B <b>(meets 2019-2020)</b>
			Youth Apprenticeship	Youth Apprenticeship	Civil Engineering & Architecture A & B <b>(meets 2020-2021)</b>

**GRAPHIC DESIGN** ★ (meets Fine Arts requirement)

Prerequisite: none

Course: 3106411 – 1 credit

Grade: 9-12

This course covers the basics of design, layout, editing, and the operation of equipment that are prevalent in today’s graphic communication industry. Computer programs that are used include Microsoft Publisher, FrontPage, and Adobe Photoshop. Students interested in a career in the printing industry, as well as the graphic communication industry (video game programmer, web page developer, digital photographer, graphic designers, and advertisement) would greatly benefit from this class.

**MACHINING & MANUFACTURING**

Prerequisite: none

Course: 3106487 – 1 credit

Grade: 9-12

Machining & Manufacturing is an introductory course into the world of manufacturing. Students will learn about the types of materials from which manufactured products are made and then use equipment found in industry to make them. Use of micrometers and calipers, blueprint reading, and spark tests are some of the lab activities performed by students prior to using metal cutting lathes, mills, shears, band saws, grinders, and drill presses. Students will make a variety of projects that will help them apply what they have learned. This course will benefit any student who likes to build things with their hands as well as those who are interested in careers in manufacturing - engineering, tool and die, design, quality assurance, etc.

**WELDING**

Prerequisite: none

Course: 3106081 – 1 credit

Grade: 10-12

This course is for anyone interested in learning about welding technology and developing basic welding skills. Students will learn how to join steel together using oxy-acetylene torches and arc, wire feed, and tig welders. Oxy-acetylene and plasma cutting skills will also be explored. This course will benefit any student with an interest in welding or has access to welding equipment or is interested in pursuing a career in manufacturing - engineers, tool and die makers, assemblers, etc. Please note that after



successfully completing this course, students are encouraged to continue developing their skill and knowledge in welding by taking Advanced Welding & Machining. This is an articulated course with selected MN community and technical colleges. **Completing this course with a letter grade of "B" or better will qualify you for college credit that will either replace a college course or significantly reduce the cost of the course.**

### **ADVANCED WELDING & MACHINING**

Prerequisite: Machining & Manufacturing; Welding

Course: 3106483 – 1 credit

Grade: 10-12

Advanced Welding & Machining is a course where students will continue to build on skills learned in Welding and in Machining & Manufacturing. Students will build projects of their own design. Students will learn new machining and welding techniques as they work to complete their projects.

### **SMALL ENGINES**

Prerequisite: none

Course: 3106488 – 1 credit

Grade: 9-12

The four-cycle engine will be the center of study for this course. Emphasis will be placed upon basic operating principles, maintaining, diagnosing/troubleshooting, repairing, and the safe use of the engine. Further study will include other types of engines, use of specialized tools, machines, and the safe use of the machines. Also, this course will include sophisticated troubleshooting techniques, testing equipment, and repair methods. Students pursuing automotive or small engine power related careers, as well as future homeowners and automobile owners, will benefit in taking this course. This is an articulated course with selected MN community and technical colleges. **Completing this course with a letter grade of "B" or better will qualify you for college credit that will either replace a college course or significantly reduce the cost of the course.**

### **ADVANCED SMALL ENGINES**

Prerequisite: Small Engines with a grade of 'C' or better

Course: 3106489 – 1 credit

Grade: 10-12

Students will overhaul and service two-cycle and four-cycle engines. Emphasis is placed on component testing, carburetion, ignition, and compression. Students must furnish at least two engines to be overhauled and earn enough points to equal another overhaul. This class is designed for those who have a real interest in engine service and repair. We will emphasize engine testing, diagnosis, and repair. In addition, students will learn about and how to use the testing and major repair equipment. Students will be responsible for locating engine specs, repair procedures, and part identification. This course may be repeated.

### **KNOW YOUR CAR**

Prerequisite: none

Course: 3106493 – 1 credit

Grade: 10-12

Are you a car owner or drive one on a daily basis? Do you ever wish you knew more about how to maintain the upkeep of your vehicle, or what to do if you find yourself on the side of the road with a flat tire? If you want to be more prepared to care for the huge investment that is automobile ownership, then this is the class for you. Know Your Car is a class for both boys and girls who own or regularly drive a vehicle. This class will cover car maintenance concepts from checking and maintaining fluid levels, to performing the most basic auto repairs that any car owner can complete. Concepts that will also be covered will include factors to consider when buying a new car, insurances, financing information, and much more.

### **RESIDENTIAL ELECTRICITY**

Prerequisite: none

Course: 3106471 – 1 credit

Grade: 9-12

This is an introductory course in residential electrical power. Students will learn about electrical circuit fundamentals, electrical power generation and transmission, building and electrical codes, blueprint reading, estimating, and basic circuit installation. Students will apply the knowledge they have gained by designing, installing, and testing typical residential electrical circuits, creating electrical prints, and estimating typical construction costs. Future homeowners, renters, and students pursuing a construction, engineering, and/or architectural career will benefit from this course. This is an articulated course with selected MN community and

technical colleges. Completing this course with a letter grade of "B" or better will qualify you for college credit that will either replace a college course or significantly reduce the cost of the course.

### **ADVANCED RESIDENTIAL ELECTRICITY**

Prerequisite: Residential Electricity

Course: 3106486 – 1 credit

Grade: 10-12

Advanced Residential Electricity is a continuation of the introductory Residential Electricity course. Students in this course will split their time evenly between learning about more advanced electrical circuits and industrial motors and controls. Service installations, demand factors, advanced circuits, conduit bending and installation, and electrical codes make up one half of the course while motor theory, installation, control, and repair account for the other half. Students entering an electrically related career will benefit by taking this course. This course may not be repeated.

### **BASIC WOODS**

Prerequisite: none

Course: 3106484 – 1 credit

Grade: 9-12

This is a course that introduces students to cabinet-making construction. Students will learn about principles of design, wood properties and characteristics, cabinet joinery, and proper tool and machine use and operation. They will then apply what they have learned through the design, estimation, planning, and construction of a small cabinet. Students interested in pursuing cabinetry and construction careers, or simply developing a lifelong hobby will benefit by taking this course.

### **ADVANCED WOODS LAB**

Prerequisite: Basic Woods with a grade of 'C' or better.

Course: 3106485 – 1 credit

Grade: 9-12

The Advanced Woods Lab class is a continuation of the introductory Basic Woods course. This lab class has two required projects for the students to build. One of the projects is a coffee table and then the student can choose between one of the following projects for their second choice. These projects are an end table, hall mirror, or a bread box. Students will have a chance to incorporate etched glass or plain glass into these projects as well. The average cost for a student to build the two projects can range from \$75 to \$150 or higher depending on which type of material of which they choose to build their project. Problem solving, scheduling, meeting deadlines, and self-evaluation are some of the skills that all students must achieve in this course. This course may be repeated.

### **BUILDING CONSTRUCTION**

Prerequisite: Basic Woods

Course: 3106494 – 1 credit

Grade: 11-12

The Building Construction course will instruct students in proper construction techniques, building codes, and the safe use of tools. Each student will build a carpenter stool and sawhorse to take home. Students will work as teams to construct a storage building. Students who may be pursuing a career in the construction, carpentry, engineering, and architectural fields may benefit from this course.

### **YOUTH APPRENTICESHIP**

Prerequisite: Pass 4 Industrial Technology courses, instructor approval, *and* application process

Course: 3106593 – 4-8 credits

Grade: 11-12

Youth Apprenticeship (YA) integrates school-based and work-based learning to instruct students in employability and occupational skills defined by Minnesota industries. Albert Lea's program will provide training based on statewide youth apprenticeship curriculum guidelines, endorsed by business and industry. Students are instructed by qualified teachers and skilled worksite mentors. Students begin their journey in YA as juniors will take a safety course in the spring of their 11<sup>th</sup> grade. Students as seniors work 10-15 hours per week during the school year and are encouraged to work during the summer, depending on business needs. ***In order to apply***, students must be on track for high school graduation, have explored the career area they want to participate in, be interested in participating in a hands-on learning experience, *and* be at least 16-years-old. Students must also maintain strong employment performance. See Mrs. Ebeling for details.

# MATHEMATICS

Students are required to have their own calculator. A standard scientific calculator (such as a TI—30X IIS) is all that is required for classes preceding Algebra II. All students must complete four credits in Algebra and two credits in Geometry to meet the Minnesota graduation standards and to meet the graduation requirements of Albert Lea High School.

## MATH COURSE PROGRESSION

2- OR 4-YEAR COLLEGE/UNIVERSITY/WORK/VOCATIONAL PROGRAM	4-YEAR COLLEGE/UNIVERSITY/ACCELERATED
Intermediate Algebra A & B	Advanced Intermediate Algebra A & B
Geometry A & B	Advanced Geometry A & B
Algebra II A & B	Advanced Algebra II A & B
Math For College	Pre-Calculus A & B
Statistics	AP Calculus A & B
Plane Trigonometry	

*The Homework Guide gives a general idea of the amount of time you can expect to spend outside of class each week. Homework load will vary from week to week, student to student, and among teachers.*

### INTERMEDIATE ALGEBRA A & B

Prerequisite: Basic Algebra 8 A & B OR Algebra 8 A & B

Course: 3104097, 3104098 – 2 credits

Grade: 9-12

**Homework Guide: 1-2 hours/week outside of class**

This course studies the nonlinear concepts of Algebra. The units that will be covered include: factoring trinomials; combining and simplifying rational expressions; solving quadratic equations; solving exponential and radical functions; and the study of data analysis and probability.

### ADVANCED INTERMEDIATE ALGEBRA A & B

Prerequisite: Algebra 8 A & 8 B *and teacher recommendation*

Course: 3104099, 3104100 – 2 credits

Grade: 9-12

**Homework Guide: 3+ hours/week outside of class**

Advanced Intermediate Algebra is applicable for students who have excelled in math. This is an accelerated, in-depth study of Algebra. The units of study will include: factoring trinomials; combining and simplifying rational expressions; solving quadratic equations; solving exponential and radical functions; rational functions and equations; and the study of data analysis and probability.

### GEOMETRY A & B

Prerequisite: Intermediate Algebra A & B or Advanced Intermediate Algebra A & B

Course: 3104103, 3104104 – 2 credits

Grade: 10-12

**Homework Guide: 1-2+ hours/week outside of class**

This course introduces basic geometric concepts. Students will study the nature of "proof" with respect to definitions, postulates, and theorems. It is also expected that students will review and extend their knowledge of Algebra. This course is a prerequisite for students planning on taking Algebra II. Units of study will include work with properties of segments, rays, lines, angles, triangles, quadrilaterals, symmetric polygons, circles, similarity, congruence, and volumes of geometric figures.

### ADVANCED GEOMETRY A & B

Prerequisite: Grade "C" or better in Advanced Intermediate Algebra A & B

Course: 3104213, 3104214 – 2 credits

Grade: 9-10

**Homework Guide: 3+ hours/week outside of class**

Advanced Geometry is a two term course applicable for students who have excelled in math. This course is an accelerated, in-depth study of geometry. Students will become acquainted with the nature of a "Proof" with respect to definition, postulates, and theorems. Students will also extend their knowledge of geometry into three-dimensional figures. In the second half of the course,

students will cover units on polygons, the right triangle, similarity, and an introduction to trigonometry. Arcs and circles, areas, volumes, and transformations are also studied.

### ALGEBRA II A & B

Prerequisite: Geometry A & B

Course: 3104105, 3104106 – 2 credits

Grade: 10-12

**Homework Guide: 1-2+ hours/week outside of class**

This course includes the following units of study: the real number systems and operations with these numbers in the form of polynomials, first degree equations and inequalities in one and two unknowns, factoring of polynomials including the remainder and factor theorems, work with the rational numbers in performing operations on and solving of fractional equations, graphing of linear equations, finding linear equations when points and/or slope is known, an introduction to functions, and problem solving associated with these topics. In the second half of the course, the units of study will include: systems of linear equations and inequalities and their solutions by graphic and algebraic methods, an introduction to functions, the graphing and study of the equations dealing with conics including inequalities and the solution of sets of quadratic equations, exponential and logarithmic functions and the solution to their equations, and problem solving associated with these topics. It is recommended that each student has a graphing calculator (TI-83, TI-83 plus, TI-84 or TI-84plus).

### ADVANCED ALGEBRA II A & B

Prerequisite: Grade “C” or better in Advanced Geometry A & B

Course: 3104215, 3104216 – 2 credits

Grades: 10-11

**Homework Guide: 3+ hours/week outside of class**

Advanced Algebra II is applicable for students who have excelled in mathematics. This is an accelerated, in-depth study of Algebra II topics. Units of study will include real numbers and their properties, linear relationships, and graphing linear functions. Applications to real world problems will be stressed. In the second half of the course, the topics covered will include polynomials, rational expressions, the complex number system, systems of equations, quadratic relationships, quadratic systems, and polynomial equations. The student will need a graphing calculator (TI-83, TI-83 plus, TI-84 or TI-84plus).

## MATH | ELECTIVES

### MATH FOR COLLEGE

Prerequisite: Algebra II A and B

Course: 3104108 – 1 credit

Grades: 11-12

**Homework Guide: 1-2 hours/week outside of class**

This course is designed for students who anticipate taking a college algebra course at a post-secondary institution. This course will address topics necessary to prepare for a college-level algebra course. Course content will include: Equations and inequalities, graphs and functions, polynomials, rational expressions, radicals, exponents, complex numbers, and quadratic functions.

### STATISTICS & PLANE TRIGONOMETRY

Prerequisite: Algebra II A & B

Course: 3104111, 3104112 – 1 credit

Grades: 11-12

**Homework Guide: 1-2 hours/week outside of class**

This course is an introductory course to both statistics and plane trigonometry for students desiring enter college in a field of study requiring a strong mathematics background. This course is designed for students that have completed Algebra II with a “C” or better. A scientific calculator is required. Units of study will include: radian measure, trigonometric functions, graphing trig functions, right triangle trig, basic identities, law of sines and cosines, displaying data, normal distributions, regression, sampling and experimentation, anticipating patterns, statistical inference, and tests of significance as time allows.

### CIS-PRE-CALCULUS A

Prerequisite: Advanced Algebra II A & B; PSEO eligible; Accuplacer Test

Course: 3104211 – 1 credit

Riverland MATH 1110 – 3 credits

Grades: 11-12

**Homework Guide: 3+ hours/week outside of class**

Pre-Calculus is a course that is designed to be a rigorous preparation for students that will major in mathematics, a mathematics related field or be required to take a college mathematics course beyond college Algebra. The course will begin with the review of the Geometry and Algebra concepts. Units of study will include graphs of linear functions in the Cartesian plane, combinations of functions, inverse functions, and graphs of quadratic functions, operations on quadratic functions, operations on the complex

numbers, exponential and logarithmic functions, systems of equations, and systems of inequalities. The student will need a graphing calculator (TI-83 or TI-83 plus or TI-84 or TI-84plus).

### **CIS-PRE-CALCULUS B**

Prerequisite: Pre-Calculus A; PSEO eligible; Accuplacer Test

Course: 3104212 – 1 credit

Riverland MATH 1120 – **4 credits**

Grade: 11-12

**Homework Guide: 3+ hours/week outside of class**

In this course, the main focus will be an introduction to trigonometry, the graphs of the six trig functions and their inverses, trigonometric identities, trigonometric equations, applications of trigonometry, the unit circle, right triangle trig, vectors, conic sections, parametric equations, polar form, and an introduction into complex analysis. The student will need a graphing calculator (TI-83 or TI-83 plus or TI-84 or TI-84plus). **Required for CIS-AP Calculus.**

### **CIS-AP-CALCULUS A & B**

Prerequisite: Pre-Calculus A & B; PSEO eligible; Accuplacer Test

Course: 3104301, 3104302 – 2 credits

Riverland MATH 1210 – **5 credits**

Grade: 12

**Homework Guide: 3+ hours/week outside of class**

Advanced Placement Calculus is a course designed for students who have an interest in a career in the fields of Mathematics, Engineering, Business, Economics, and/or the Life Sciences. Successful completion will give the student the ability to advance into college calculus. Students must have their own graphing calculator. Units of study will include the review of the Cartesian plane, review of functions and trigonometry, the study of limits, introduction to the derivative, rules for differentiation, and curve sketching with the aid of derivatives. Application of these concepts to real world problems will be stressed. In the second half, units of study will include optimization problems, business and economics applications, differentials, anti-derivatives, The Fundamental Theorem of Calculus, and integration of volumes of revolution.

# MUSIC DEPARTMENT

*A ★ means that the class meets the **Fine Arts graduation requirement.***

*You must have at least 2 Fine Arts credits for graduation.*

## **9<sup>th</sup> GRADE TIGER BAND, TIGER CHOIR, & TIGER ORCHESTRA**

### **TIGER BAND A & B ★**

Prerequisite: Band experience/Instructor's approval

Course: 3106616, 3106617 – 2 Credits

Grade: 8-9

Tiger Band is a year-long performing organization open to all 8<sup>th</sup> and 9<sup>th</sup> grade students who have played in band prior to the high school. A wide variety of quality music will be performed at 3-4 required concerts during the school year and selected pep band events. Instrumental playing techniques, music reading, musicianship, as well as a commitment to the group concept will be emphasized. Individual or small group lessons are required for all members. Solo and small ensemble playing will be emphasized and encouraged.

### **TIGER CHOIR A & B ★**

Prerequisite: Instructor's approval

Course: 3106601, 3106602 – 2 Credits

Grade: 9

Tiger Choir is a year-long performing organization open to all students who enjoy singing and wish to develop their voices through ensemble singing. Emphasis will be on developing vocal technique, music reading, and choral singing skills. A wide variety of music will be used, and attendance at fall, winter, and two spring concerts are required. Voice lessons are required for 9<sup>th</sup> grade choir students for part of the year and will be scheduled for students during their regular school week.

**TIGER ORCHESTRA A & B ★**

Prerequisite: Orchestra experience/Instructor's approval

Course: 3106653, 3106654 – 2 Credits

Grade: 8-9

Tiger Orchestra is a year-long performing ensemble open to 8<sup>th</sup> and 9<sup>th</sup> grade students who enjoy playing string instruments and want to continue to develop their playing skills. Emphasis will be placed on continuing to develop good posture and playing techniques, music reading, musicianship, and ensemble skills. A wide variety of music will be used, and attendance at fall, winter, and two spring concerts are required. Individual or small group lessons are also required for all members.

**TIGER BAND AND CHOIR A & B ★**

Prerequisite: Choir/Band experience/Instructor's approval

Course: 3106618, 3106619, 3106621, 3106622 – 2 credits

Grade: 8-9

The Tiger Choir and Band is set up for those students wanting to pursue both choir and band in their 8<sup>th</sup> and 9<sup>th</sup> grade year. Students will attend Tiger Choir or Tiger Band daily on an alternating schedule.

**TIGER BAND AND ORCHESTRA A & B ★**

Prerequisite: Band/Orchestra experience/Instructor's approval

Course: 3106627, 3106628, 3106629, 3106630 – 2 credits

Grade: 8-9

The Tiger Band and Tiger Orchestra is set up for those students wanting to pursue both band and orchestra in their 8<sup>th</sup> and 9<sup>th</sup> grade year. Students will attend Tiger Band or Tiger Orchestra daily on an alternating schedule.

**TIGER CHOIR AND ORCHESTRA A & B ★**

Prerequisite: Choir/Orchestra experience/Instructor's approval

Course: 3106623, 3106624, 3106625, 3106626 – 2 credits

Grade: 8-9

The Tiger Choir and Tiger Orchestra is setup for those students wanting to pursue both choir and orchestra in their 8<sup>th</sup> and 9<sup>th</sup> grade year. Students will attend choir or orchestra daily on an alternating/every-other-day schedule.

**BAND****SYMPHONIC BAND A & B ★**

Prerequisite: Band experience/Instructor's approval

Course: 3106631, 3106632 – 2 credits

Grade: 10-12

This is a year-long performing organization for 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> graders who have been playing in a band setting prior to this year. It may also include selected 9<sup>th</sup> grade students based on instrumental needs. A wide variety of quality music will be performed at 3-4 concerts during the school year and selected pep band events. Instrumental playing techniques, music reading, musicianship, as well as a commitment to the group concept will be emphasized. Individual or small group lessons are required for all members. Solo and small ensemble playing will be emphasized and encouraged.

**CONCERT BAND A & B ★**

Prerequisite: Band experience/Instructor's approval

Course: 3106641, 3106642 – 2 credits

Grade: 10-12

This is a year-long performing organization for 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> graders who have played in the band setting prior to this year and have been approved by the instructor. Demanding music of the highest quality will be performed at 3-4 concerts during the school year and selected pep band events. This group is the top-performing band at ALHS and will participate in the Big 9 Music Festival in May. Instrumental playing techniques, music reading, musicianship, as well as a commitment to the group concept will be emphasized. Individual or small group lessons are required for all members. Solo and small ensemble playing will be emphasized and encouraged.

## CHOIR

### **VARSITY CHOIR A & B ★**

Prerequisite: Instructor's approval

Course: 3106607, 3106608 – 2 credits

Grade: 10-12 Soprano and Alto

This is a year-long performing organization open to soprano and alto students who enjoy singing and wish to develop their voices through ensemble singing. Emphasis will be on developing vocal technique, music reading, and choral singing skills. A wide variety of music will be used and appearances at fall, winter, and two spring concerts are required. Private voice lessons are encouraged and required for at least 2 quarters of the year for 10th graders and new students to the program. These voice lessons are provided for students and scheduled to occur during the school day.

### **CONCERT CHOIR A & B ★**

Prerequisite: Instructor's approval

Course: 3106611, 3106612 – 2 credits

Grade: 10-12

This is a year-long performing organization open to students in grades 10-12 who enjoy singing and wish to develop their voices through ensemble singing. Emphasis will be on developing vocal technique, music reading, and high-quality choral singing skills. A wide variety of challenging music will be used and appearances at fall, winter, and two spring concerts are required as well as the Big 9 Festival in May. Private voice lessons are available to all, however, they are required for 10<sup>th</sup> graders and students new to the program. Students required to take voice lessons would complete at least two quarters (of private voice lessons) during the school year.

## ORCHESTRA

### **SYMPHONY ORCHESTRA A & B ★**

Prerequisite: Orchestra experience/Instructor's approval

Course: 3106651, 3106652 – 2 credits

Grade: 10-12

This is a year-long performing ensemble open to 10<sup>th</sup>, 11<sup>th</sup>, & 12<sup>th</sup> grade students who enjoy playing string instruments, been involved in orchestra the previous year, and want to continue to develop their playing skills. Emphasis will be placed on building advanced playing techniques, music reading, musicianship and ensemble skills. Woodwind, brass, and percussion musicians are added throughout the year to perform with the orchestra. A wide variety of string and full-orchestra music will be performed in the fall, winter, and two spring concerts as well as the Big 9 Music Festival in May. Attendance at all concerts, including Big 9, is required. Individual or small group lessons are also required for Orchestra members.

# PHYSICAL EDUCATION and HEALTH

### **PHYSICAL EDUCATION 9**

Prerequisite: none

Course: 3106700 – 1 credit

Grade: 9

Physical Education 9 is a co-ed class required of all 9<sup>th</sup> graders. Emphasis is placed on active participation and becoming physically fit through a variety of aerobic activities. Anaerobic activities are also included to improve coordination, balance, and motor skills. Group activities and sports are played to teach cooperation, leadership, and role playing. Swimming, weight training, and relaxation exercises are also part of the curriculum. Projects include record keeping of fitness testing, fitness plan, strength training, and evaluation. Some activities of this course include: Progressive Aerobic Cardiovascular Endurance Run (PACER), basketball, volleyball, soccer, flag football, floor hockey, and others. The class is designed to introduce students to the importance of physical fitness and lifetime activities which can benefit their health.

**PHYSICAL EDUCATION 10-12**

Prerequisite: none

Course: 3100068

Grade: 10-12

Physical Education 10-12 is a graduation course requirement for students that have not yet completed a physical education course. Alternatively, all students who have already completed a physical education class may enroll in the class for elective academic credit. This class is designed for the student who has not received the required 9th grade Physical Education credit for graduation.

**HEALTH 10**

Prerequisite: none

Course: 3106711 – 1 credit

Grade: 10

This is a co-ed course and is required of all sophomores. Emphasis is placed on presenting information so those students make healthy decisions, promote healthy diet and physical fitness practices, and reduce/prevent tobacco/drug/alcohol use. Other areas covered include injuries, intentional and unintentional; STD/unintentional pregnancy; Community Services; and long-term health promotion. Students are required to demonstrate the decision-making model in a variety of activities.

**PHY ED | ELECTIVES****AQUATICS**

Prerequisite: none

Course: 3106720 – 1 credit

Grade: 9-12

This elective in the physical education curriculum is for the student who enjoys the water and will get into better physical condition by doing a number of water activities. The activities of this course include swimming laps, water aerobics, water running, and various water techniques and skills. Students who take this class should have had some instruction in swimming, but need not be a skilled swimmer. It is not a class for non-swimmers. This class will provide a great opportunity to build strength and conditioning of the cardio-respiratory system without stress to the body joints.

**FIT FOR LIFE**

Prerequisite: Physical Education 9

Course: 3106721 – 1 credit

Grade: 10-12

This course is designed to investigate and apply basic concepts and principles of lifetime fitness and other health-related factors. Topics will include cardiovascular fitness, muscular strength and endurance, and flexibility. Students will participate in rigorous workouts which will be prescribed by the teacher. Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal fitness program based on individual needs, abilities, and interests. Activities will take place in the gym, weight room, wrestling room, pool, outside space, and the computer lab.

**WEIGHTS & FITNESS**

Prerequisite: Physical Education 9

Course: 3106731 – 1 credit

Grade: 10-12

Emphasis is teaching proper weight training techniques. Students will be taught the principles and techniques of weight training. Topics will include cardiovascular fitness, muscular strength and endurance, and flexibility. Students will participate in rigorous workouts which will be prescribed by the teacher. Students will utilize fitness self-assessments to enable them to set goals and evaluate their program throughout the semester. Strength training will occur three days per week, and cardiovascular activities will occur two days per week. Grading criteria will include work ethic, quizzes, weight terminology, body composition, and a final project.



**ADVANCED WEIGHTS & FITNESS**

Prerequisite: Weights & Fitness

Course: 3106732 – 1 credit

Grade: 11-12

Students will become familiar with different methods and techniques of weight training and apply this information to develop their personal weight training program. This advanced course allows students to create an individual strength training and cardiovascular conditioning program. Topics include cardiovascular fitness, muscular strength and endurance, and flexibility. Students will participate in rigorous workouts which will be prescribed by the teacher. Students will be assessed at the beginning of the semester and set personal goals based on the results of the assessments. Grading criteria will include work ethic, quizzes, weight terminology, body composition, and a final project.

# SCIENCE

**PHYSICAL SCIENCE 9 A & B** 

Prerequisite: none

Course: 3103001, 3103002 – 2 credits

Grade: 9

This class is a laboratory-based course that includes the study of chemistry and physics. Students will study the metric system, conversions, instrumentation, and scientific methods. Chemistry topics that will be covered are atoms, molecules, elements, compounds and mixtures, properties and states of matter, the periodic table, chemical bonding, and chemical reactions. Physics topics that will be covered are motion, forces, gravity, heat, electricity, magnetism, sound, and light. This course will give students the fundamental skills and knowledge to succeed in any future science course.

**ADVANCED PHYSICAL SCIENCE 9 A & B** 

Prerequisite: Grade of “B+” or above in 8<sup>th</sup> grade Science

Course: 3103003, 3103004 – 2 credits

Grade: 9

This course will cover the topics in Physical Science 9 A & B, but at a faster pace and more rigorous level.

This course is designed for a student committed to academic achievement. The course will be more rigorous and require a greater commitment from students. Students best suited for this class typically have excelled in previous Science classes.

**GENERAL BIOLOGY A & B** 

Prerequisite: Physical Science

Course: 3103011, 3103012 – 2 credits

Grade: 10-12

Biology is the branch of science devoted to the study of life. This two-semester course is intended for students who have had difficulty in math and science in the past, and need a more hands-on approach to the subject at an accommodated pace. The major topics include: kinds of life, reproduction, body systems, genetics, plants, and relationships in the environment.

**BIOLOGY A & B** 

Prerequisite: Physical Science

Course: 3103013, 3103014 – 2 credits

Grade: 10-12

Biology is a two-semester course for students interested in the study of the diversity of living things and the common processes of life. This level is intended for students who plan to go on to a two or four-year college, but career choices and/or major fields of study are undecided at this time. Topics include: human biology, classification, scientific method and techniques, evolution, genetics, reproduction, ecology, and development.

**ADVANCED BIOLOGY A & B** 

Prerequisite: Physical Science OR Advanced Physical Science

Course: 3103015, 3103016 – 2 credits

Grade: 10-12

Advanced Biology is a two-semester course similar to Biology A & B, however students will have more opportunities for enriched study in the areas of focus. This level is intended for students who plan to go on to a two or four-year college, but career choices and/or major fields of study are undecided at this time. Topics include: human biology, classification, scientific method and techniques, evolution, genetics, reproduction, ecology, and development. A major area of focus is preparing students to take CIS-AP Biology their junior or senior year.

**PHYSICS A & B** 

Prerequisite: Biology or Advanced Biology AND either Advanced Algebra I or Algebra II

Course: 3103061, 3103062

Grade: 11-12

Knowledge of physics is needed for anyone who is considering a technical occupation, such as scientist, engineer, various technicians, medical doctors, and related fields. This course is designed to prepare students to exist in an increasingly technological society, by developing analytical, problem solving, and laboratory skills while integrating math, science, and technology. The course will provide a systematic understanding of the fundamental laws that govern physical, chemical, and biological processes. Students will conduct experiments and study theories with mechanical forces, straight line and circular motion, modern physics, kinetic and potential energy, work, light, heat, nuclear energy, wave motion, sound, magnetism, electrical theory, and the forces and energies they contain. **Students may satisfy their 11<sup>th</sup> grade science graduation requirement by taking one of the following courses:**

**Chemistry, Chemistry in the Community, or Physics.**

**CHEMISTRY IN THE COMMUNITY A & B** 

Prerequisite: Intermediate Algebra I A & B

Course: 3103034, 3103035 – 2 credits

Grade: 11-12

This course is designed for students planning on attending 2-year college or technical training. This course emphasizes traditional chemical concepts through application rather than through the development of mathematical theory. Major topics of study include: periodic table, naming compounds, laboratory techniques, chemical reactions, atomic structure, and chemical bonding. **Students may satisfy their 11<sup>th</sup> grade science graduation requirement by taking one of the following courses: Chemistry, Chemistry in the Community, or Physics.**

**CHEMISTRY A & B** 

Prerequisite: (Intermediate Algebra A & B OR Advanced Intermediate Algebra A & B), Biology A & B

Course: 3103031, 3103032 – 2 credits

Grade: 11-12

Chemistry is an introduction to the study of composition, structure and properties of matter, and the changes it undergoes. Systematic understanding of the physical environment will be attained by studying the following topics: behavior of matter, energy, measurement, and scientific method as applied in chemistry research, acids/bases, chemical reactions, periodic table, gases, bond types, atomic structure and theory, and stoichiometric calculations. **Students may satisfy their 11<sup>th</sup> grade science graduation requirement by taking one of the following courses: Chemistry, Chemistry in the Community, or Physics.**

## SCIENCE | ELECTIVES

**ZOOLOGY** 

Prerequisite: Biology A & B or concurrent with Biology A & B

Course: 3103041 – 1 credit

Grade: 10-12

Zoology is the study of the Animal Kingdom. This course is recommended for all students who are planning to attend a 2- or 4- year post-high school program. Students will study representative animal classes from different phyla. Major topics considered will be a comparative study of cells, systems, and organisms as they relate to the understanding of structure and function in higher animals, including humans. Skill in the use of microscopic and dissection techniques is highly recommended. Topics covered include animal behavior and relationships, studies of representative animal classes of vertebrates and invertebrates, the closely related Protist Kingdom, animal anatomy, and field-study techniques.

**FORENSIC SCIENCE** 

Prerequisite: Biology A & B

Course: 3103071 – 1 credit

Grade: 11-12

This one-semester class will focus on practicing forensic science and analyzing physical evidence that may be found at crime scenes. Major topics include crime scene analysis and processing, evidence collection and identification techniques, DNA analysis, blood spatter analysis, fiber and hair analysis, and fingerprinting. Instruction will include a mixture of lecture and discussion, projects and presentations, and labs. This course is designed for the general student population that has had little or no difficulty in science in previous years.

**ANATOMY & PHYSIOLOGY** 

Prerequisite: Biology A & B

Course: 3103081 – 1 credit

Grade: 11-12

This course is open to students who plan to attend either a 2-year or 4-year college and have an interest in anatomy and physiology. This is an introductory course for students considering a career in any health-related field (medicine, athletic training, massage therapy, etc.) or for those who would like a better understanding of how the human body works for both the medical and business fields. Students will engage in lab work, numerous hands-on activities, and presentations with emphasis on the development of critical thinking and inquiry skills. This course is designed for the general student population who read near or above grade level and who have had little or no difficulty in science courses in previous years.

**CIS-AP BIOLOGY A & B** 

Prerequisite: Chemistry A & B or concurrent with Chemistry; PSEO eligible; Accuplacer Test

Course: 3103051, 3103052 – 2 credits

*Riverland BIOL 1091, 1092 – 8 college credits*

Grade: 11-12

Advanced Placement Biology is aimed at students who desire a challenging in-depth study of biology. This two-semester class covers topics at a pace/level that closely resembles a college introductory biology course. Students should anticipate more time spent outside of class than what may be traditionally required in their previous science courses. Topics covered include: Evolution and Biodiversity, Organisms and Populations, Ecology, Chemistry of Life, Cells and Cellular Energy, Cellular division and Cancer, Molecular Genetics and Heredity, Biotechnology, Scientific Method, and Inquiry. Students will complete the Advanced Placement Test near the conclusion of the course.

**PHYSICS A & B** 

Prerequisite: Biology or Advanced Biology AND either Advanced Algebra I or Algebra II

Course: 3103061, 3103062 – 2 credits

Grade: 11-12

Knowledge of physics is needed for anyone who is considering a technical occupation, such as scientist, engineer, various technicians, medical doctors, and related fields. This course is designed to prepare students to exist in an increasingly technological society, by developing analytical, problem solving, and laboratory skills while integrating math, science, and technology. The course will provide a systematic understanding of the fundamental laws that govern physical, chemical, and biological processes. Students will conduct experiments and study theories with mechanical forces, straight line and circular motion, modern physics, kinetic and potential energy, work, light, heat, nuclear energy, wave motion, sound, magnetism, electrical theory, and the forces and energies they contain. **Students may satisfy their 11<sup>th</sup> grade science graduation requirement by taking one of the following courses:**

**Chemistry, Chemistry in the Community, or Physics.**

**CHEMISTRY A & B** 

Prerequisite: Algebra I A & B, Biology A & B

Course: 3103031, 3103032 – 2 credits

Grade: 11-12

Chemistry is an introduction to the study of composition, structure and properties of matter, and the changes it undergoes. Systematic understanding of the physical environment will be attained by studying the following topics: behavior of matter, energy, measurement, and scientific method as applied in chemistry research, acids/bases, chemical reactions, periodic table, gases, bond types, atomic structure and theory, stoichiometric calculations, organic chemistry, and thermochemistry. **Students may satisfy their**

11<sup>th</sup> grade science graduation requirement by taking one of the following courses: Chemistry, Chemistry in the Community, or Physics.

# SOCIAL STUDIES

## **WORLD HISTORY I A & B**

Prerequisite: none

Course: 3102001, 3102002 – 2 credits

Grade: 9

This course is designed to increase student interest and knowledge in the ideas, events, and key figures in world history. This is a survey course; we will cover the major political, social, economic, and cultural developments of the peoples of the world. Course topics include: first civilizations, Ancient Greece, Ancient Rome, Medieval Europe, Islamic World, Japan, Mesoamerica, the Columbian Exchange, Renaissance, Reformation, Revolutions, Napoleonic Era, and the Industrial Revolution up to 1900.

## **ADVANCED WORLD HISTORY I A & B**

Prerequisite: Grade of “B+” or above in 8<sup>th</sup> grade Social Studies

Course: 3102003, 3102004

Grade: 9

This course is designed for the highly motivated student and requires students to utilize advanced reading and writing skills in addition to foundational geographic and historical knowledge. This course is designed to increase student interest and knowledge in the ideas, events, and key figures in world history. This is a survey course; we will cover the major political, social, economic, and cultural developments of the peoples of the world. Course topics include: first civilizations, Ancient Greece, Ancient Rome, Medieval Europe, Islamic World, Japan, Mesoamerica, the Columbian Exchange, Renaissance, Reformation, Revolutions, Napoleonic Era, and the Industrial Revolution up to 1900.

## **WORLD HISTORY II/GEOGRAPHY**

Prerequisite: none

Course: 3102011 – 1 credit

Grade: 10

Modern World History is a required course for graduation. Materials in this course will focus on world events from 1850 to the present day with emphasis Industrialism, Nationalism, Imperialism, Totalitarianism, World Wars, Post War period, and Modern Middle East.

## **ADVANCED WORLD HISTORY II/GEOGRAPHY**

Prerequisite: Grade of B+ or above in 9<sup>th</sup> grade Social Studies

Course: 3102022

Grade: 10

This course is designed for the highly motivated student. The faster pace and increased rigor will prepare students for more advanced social studies classes in their junior and senior years.

## **AP HUMAN GEOGRAPHY A & B**

Prerequisite: 10<sup>th</sup> grade students must demonstrate a B+ or above average in the Advanced World History I course and have a 3.3 cumulative GPA.

Course: 3102105, 3102106 – 2 credits

Grades: 10-12 (This course would satisfy the 10<sup>th</sup> Grade Social Studies Graduation Requirement)

In this class, students learn more about human geography with in depth discussions, hands on activities, lecture, critical reading skills, deep analysis of various forms of data, analytical writing and reasoning through a systematic discovery of the patterns and processes that have shaped our human environment. Students will complete the Advanced Placement Human Geography Test during AP Testing week in May.

**UNITED STATES HISTORY A & B** 

Prerequisite: none

Course: 3102101, 3102102 – 2 credits

Grade: 11

This course is designed to survey events in United States history from pre-colonial times to the present. The primary goal is to engage students in a discussion and analysis of the people, events, and controversies that have shaped our nation. This course will provide students with an in-depth study of content that will provide knowledge and skills required for success in post-secondary education, the skilled workplace, and civic life.

**CIS-HUMANITIES SOCIAL 11 A & B** 

Prerequisite: PSEO eligible; Accuplacer Test

Course: 3102111, 3102112 – 2 credits

*Riverland HIST 1001, 1002 – 6 college credits*

Grade: 11

Humanities Social 11 is an advanced course in the study of American History, Architecture, Art, and Culture. The course is geared towards the highly motivated student. A Humanities Social student can expect to have heavy homework loads and expect to actively participate in course discussions, note taking, and cooperative groups.

**AMERICAN GOVERNMENT** 

Prerequisite: none

Course: 3102201 – 1 credit

Grade: 12

This course meets the 12<sup>th</sup> grade graduation requirement and will provide students with an understanding of the structure and functions of the American government while also examining the rights and responsibilities of being an American citizen. Students will also examine the purpose, organization, and functions of the legislative, executive, and judicial branches of government. In addition, students will review how we elect our leaders, the privileges and duties of citizenship, and the rights afforded to citizens by the US Constitution. Students will interact with these concepts through daily assignments, projects, and simulations.

**CIS-AP GOVERNMENT A & B** 

Prerequisite: PSEO eligible; Accuplacer Test

Course: 3102203, 3102204 – 2 credits

*Riverland PSCI 1010, 1020 – 6 college credits*

Grade: 12

AP Government is a two-term course; students must sign up for A & B. This course will cover the Constitutional underpinning of democracy in the U.S., political beliefs and behaviors of individuals, political parties, interest groups, campaigns and elections, the mechanisms of government including the bureaucracy, legislative, executive, and judicial branches, civil rights, civil liberties, and other elements of government and its relationship to society. This course will help you distinguish the important issues from the non-important; understand and evaluate competing arguments; formulate and express your own opinion on the political and policymaking process; and help you carry on an intelligent discussion on political events. Students will complete the Advanced Placement Test near the conclusion of the course.

**ECONOMIC SYSTEMS** 

Prerequisite: none

Course: 3102202 – 1 credit

Grade: 12

This required 12<sup>th</sup> grade course is an introduction into micro-economic and macro-economic concepts. Students will be exposed to the relevance of economics in decision making by individuals, businesses and governments in today's world. Included among the topics covered in this course are consumer economics, the comparison of different economic systems, the capitalist system, investing, globalization and trade, and the study of the local economy.

**AP MACROECONOMICS** 

Prerequisite: none

Course: 3102207 – 1 credit

Grades: 11-12

Students will gain a thorough understanding of the principles of economics that apply to an economics system as a whole. This course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. This course will focus on preparing students to take the AP exam successfully and the pace is comparable to a college-level course. Students will complete the Advanced Placement Macroeconomic Test during AP Testing week in May.

## SOCIAL STUDIES | ELECTIVES

**AP HUMAN GEOGRAPHY A & B** 

Prerequisite: 10<sup>th</sup> grade students must demonstrate a B+ or above average in the Advanced World History I course

Course: 3102105, 3102106 – 2 credits

Grades: 10-12 (This course would satisfy the 10<sup>th</sup> Grade Social Studies Graduation Requirement)

In this class, students learn more about human geography with in depth discussions, hands on activities, lecture, critical reading skills, deep analysis of various forms of data, analytical writing and reasoning through a systematic discovery of the patterns and processes that have shaped our human environment. Students will complete the Advanced Placement Human Geography Test during AP Testing week in May.

**AP PSYCHOLOGY A & B** 

Prerequisite: none

Course: 3102488, 3102489 – 2 credits

Grades: 11-12

Students will be introduced to the discipline of psychology by emphasizing the history of psychology as a science, the different theoretical approaches that underlie explanations of behavior, and the contemporary research methods used by psychologists. This course will focus on preparing students for the AP exam in May. The pace and rigor is comparable to a college-level course. Topics of study will include: history & approaches, research methods, biological bases of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality, testing and individual differences, abnormal behavior & treatment, and social psychology.

**CIS-MODERN EUROPEAN HISTORY** 

Prerequisite: PSEO eligible; Accuplacer Test

Course: 3102471 – 1 credit

*Riverland HIST 1012 – 3 college credits*

Grades: 11-12

This course will survey historical themes, topics and events in European History from the French Revolution (1450) through the present. Class instructional methods will include lecture, discussion, movies/documentaries, reading of primary sources/documents, and writing. Students interested in history will have an opportunity to further their knowledge through challenging writing activities and college-level reading. This course offers a great opportunity for students to gauge (and grow in) their level of readiness for the expectations of college coursework.

**CRIMINOLOGY** 

Prerequisite: none

Course: 3102441 – 1 credit

Grades: 10-12

This course is an examination of the major definitions, concepts, and theories sociologists and criminologists use to study adult criminality and juvenile delinquency. Students will also survey types of crime, examine methods of crime measurement, and investigate the criminal justice system's response to criminal behavior.

**PSYCHOLOGY** 

Prerequisite: none

Course: 3102490 – 1 credit

Grades: 11-12

Psychology is a study of human behavior and mental processes. This is a class for students curious about why we act the way we do. Students taking this class will be introduced to the origins of psychological science as well as the methods used to study human behavior. Other areas of study include personality theory and psychological disorders. This class is for the general student population and for learners reading near or above grade level.

# WORLD LANGUAGES

Students must register for A & B courses in the same year. A student must pass the “A” section of the class to continue with the “B” section. Completion in consecutive terms is highly recommended. Native Spanish-speakers and transfer students should consult with a Spanish teacher or his/her school counselor prior to registration to determine the appropriate Spanish class. A placement test is available.

**FRENCH 1 A & B** 

Prerequisite: none

Course: 3105161, 3105162 – 2 credits

Grade: 9-12

This course introduces students to the French language, cultures, and history of the French-speaking world. Students will communicate in simple conversations, write and read basic materials, and learn the central aspects of French culture and the cultures of regions where French is spoken. Grammar instruction will focus on the basic structures of the French language. Students will develop communication skills by learning vocabulary and phrases related to the theme of each unit. Topics include school, leisure activities, food, personal descriptions, and places to visit, clothing, and everyday life. Some instruction will be in French.

**FRENCH 2 A & B** 

Prerequisite: French 1 A & B

Course: 3100101, 3100102 – 2 credits

Grade: 10-12

The intermediate French course builds on skills from French 1. Students will explore and analyze different cultures from the French-speaking world. Students will gain a deeper understanding of the structure of the French language, and learn how to communicate in a variety of formal and informal situations. Authentic texts and movies will be used to increase skills in vocabulary and communication. Units are designed around cultural and communication themes. Topics include fashion, meals, cinema, and mass media, health and athletics, home, and tourism. Most instruction will be in French.

**FRENCH 3 A & B** 

Prerequisite: French 2 A & B – 2 credits

Course: 3105157, 3105158

Grade: 11-12

French 3 focuses on building literacy in French, fluency in conversational and formal speaking, and writing on a variety of topics. Students will learn how to use complex structures and language functions in real life situations. They will also read and analyze a variety of literature and other texts. Cultural topics will include day-to-day life in various French speaking countries, as well as historical perspectives of French culture.

**FRENCH 4 A & B** 

Prerequisite: French 3 A & B – 2 credits

Course: 3105159, 3105160

Grade: 12

This course refines students’ mastery of French vocabulary, grammar, and language functions. Students will increase their confidence in expressing themselves in French. Students will read short stories, poems, articles, and a novel. Informal journals,

formal compositions, and oral presentations will be major components of the course, as well as in-depth analysis of French history, culture, literature, cinema, and mass media.

### **SPANISH 1 A & B**

Prerequisite: none

Course: 3105111, 3105112 – 2 credits

Grade: 9-12

The focus of Spanish 1 is learning to speak the language. You will talk about your daily life: sports, hobbies, likes and dislikes, school, food, clothing, and family. Activities may include: movies, songs, projects, and games. In Spanish 1 you will learn about other cultures and begin to be able to communicate with others in Spanish. Other expectations: participation in conversations and interviews (you will be **required** to speak Spanish) and memorization to expand your vocabulary.

### **SPANISH 2 A & B**

Prerequisite: Spanish 1 A & B or teacher approval

Course: 3105121, 3105122 – 2 credits

Grade: 10-12

This course builds upon the basic material studied in Spanish 1. We will do more speaking and writing in real-life situations that students may encounter while traveling, studying, or working. Activities may include: readings, role playing, writing, oral presentations, projects, games, and videos. Through readings and discussions, we will continue to build awareness of other cultures. Speaking Spanish will be part of your participation grade.

### **SPANISH 3 A & B**

Prerequisite: Spanish 2 A & B or teacher approval

Course: 3105131, 3105132 – 2 credits

Grade: 11-12

As you progress through Spanish 3, you will be strengthening your conversational skills by learning how to communicate in typical, daily-life situations here and in other countries: how to get around in a Spanish-speaking country, how to tell people what to do, talk about past activities and future plans, etc. You will also read a novel, short stories, write brief compositions, and create your own stories and skits.

### **SPANISH 4 A & B**

Prerequisite: Spanish 3 A & B or teacher approval

Course: 3105141, 3105142 – 2 credits

Grade: 12

Emphasis in this course is on communication and the skills necessary for speaking while traveling or studying in college. We will read short stories, novels, and increase your knowledge of grammar, vocabulary, and culture necessary to communicate in Spanish. You will learn to express your opinions in Spanish through compositions, skits, and role playing. You may also go to a local elementary school to teach Spanish to the children there. At the completion of the course, students will be given information about CLEP testing. The CLEP test is an optional test which may give students the opportunity to earn college credits in Spanish and/or test out of college Spanish classes.

### **SPANISH 5 A & B**

Prerequisite: Spanish 4 A & B or teacher approval

Course: 3105151, 3105152 – 2 credits

Grade: 12

This will be an intensive, college prep course in which students will be challenged to delve into the intricacies of the Spanish language. Students will be required to work independently or in small groups in this class. This class often consists only of native speakers who are moved-up a level in their 9<sup>th</sup> grade year after completing a placement test to confirm level of study. Students may also choose to take the CLEP test. The CLEP test is an optional test which may give students the opportunity to earn college credits in Spanish and/or test out of college Spanish classes.



## COLLEGE in the SCHOOLS (CIS) CLASSES



**Riverland**  
COMMUNITY COLLEGE  
A Technical & Community College

In Minnesota, concurrent enrollment courses are college courses offered at the high school and are taught by ALHS faculty. These courses are offered in partnership with Riverland Community College. Students who successfully complete these courses generate both high school and transcripted college credit from Riverland Community College. We refer to these courses as College in the School (CIS) classes. There is no cost to the student to participate in these courses. Research shows that high school students who participate in an accelerated learning option, such as concurrent enrollment, benefit greatly from: exposure to high expectations, participation in challenging courses, and a gained momentum by earning college credits while still in high school.

**PSEO** participation is available to juniors and seniors enrolled at ALHS who present evidence of the ability to perform college-level work. Such evidence includes the following:

1. For juniors, class rank in the upper one-third of their class or a score at or above the 70th percentile on a nationally standardized, norm referenced test.
2. For seniors, class rank in the upper one-half of their class or a score at or above the 50th percentile on a nationally standardized, norm-referenced test.

Eligible juniors and seniors will need to take and pass the college placement test (i.e. Accuplacer). Eligible students will be notified by mail of their eligibility and will have the opportunity to take the Accuplacer Test during school hours. Eligible students will receive written notification, prior to the end of the school year, regarding their status for next year's CIS courses.

### CIS ENGLISH

#### **CIS-WESTERN HUMANITIES ENGLISH A & B**

Prerequisite: PSEO eligible; Accuplacer Test

Grade: 11 or 12

Course: 3101221, 3101222 – 2 credits

*Riverland HUMA 1101, 1102 – 6 college credits*

This course presents curriculum from the point of view of the cultural tradition of Western civilization in the fine arts. Areas of study include literature, philosophy, religion, music, art, and architecture. Humanities is designed for highly motivated students with a GPA of at least 3.0 who are prepared for daily reading assignments. This course is web-enabled, meaning students enrolling in this course should either have stable Internet access at home or be willing to regularly utilize web access elsewhere.

#### **CIS-WRITING COLLEGE PAPERS**

Prerequisite: PSEO eligible; Accuplacer Test

Grade: 11, 12

Course: 3101422 – 1 credit

*Riverland ENGL 1101 – 3 college credits*

This course is designed to teach effective writing at the college level. Students will learn composition and organization skills that will enable them to write better and more confidently. Effective writing is a process that requires thought and practice beyond the classroom. Students will master the rules and conventions for written Standard American English. Students will also learn how to write a variety of academic papers. *This is a blended online course. The class will be scheduled for either Period 1 or Period 7. Classroom attendance is required Monday, Wednesday, and Friday. Online instruction and assignments will occur on Tuesday and Thursday.*

### CIS MATH

#### **CIS-PRE-CALCULUS A**

Prerequisite: Advanced Algebra II A & B; PSEO eligible; Accuplacer Test

Grade: 11-12

Course: 3104211 – 1 credit

*Riverland MATH 1110 – 3 college credits*

Pre-Calculus is a course that is designed to be a rigorous preparation for students that will major in mathematics, a mathematics related field or be required to take a college mathematics course beyond college algebra. The course will begin with the review of the Geometry and Algebra concepts. Units of study will include graphs of linear functions in the Cartesian plane, combinations of functions, inverse functions, graphs of quadratic functions, operations on quadratic functions, operations on the complex numbers,

exponential and logarithmic functions, systems of equations, and systems of inequalities. The student will need a graphing calculator (TI-83 or TI-83 plus or TI-84 or TI-84plus).

### **CIS-PRE-CALCULUS B**

Prerequisite: Pre-Calculus A; PSEO eligible; Accuplacer Test

Grade: 11-12

Course: 3104212 – 1 credit

*Riverland MATH 1120 –4 college credits*

In this course, the main focus will be an introduction to trigonometry, the graphs of the six trig functions and their inverses, trigonometric identities, trigonometric equations, applications of trigonometry, the unit circle, and right triangle trig. The student will need a graphing calculator (TI-83 or TI-83 plus or TI-84 or TI-84plus). **Required for AP Calculus.**

### **CIS-AP CALCULUS A & B**

Prerequisite: Pre-Calculus A & B; PSEO eligible; Accuplacer Test

Grade: 11-12

Course: 3104301, 3104302 – 2 credits

*Riverland MATH 1210 – 5 college credits*

Advanced Placement Calculus is a course designed for students who have an interest in a career in the fields of Mathematics, Engineering, Business, Economics, and/or the Life Sciences. Successful completion will give the student the ability to advance into college calculus. Students must have their own graphing calculator. Units of study will include the review of the Cartesian plane, review of functions and trigonometry, the study of limits, introduction to the derivative, rules for differentiation, and curve sketching with the aid of derivatives. Application of these concepts to real world problems will be stressed. In the second half, units of study will include optimization problems, business and economics applications, differentials, anti-derivatives, The Fundamental Theorem of Calculus, and integration of volumes of revolution.

## **CIS SCIENCE**

### **CIS-AP BIOLOGY A & B**

Prerequisite: Chemistry A & B; PSEO eligible; Accuplacer Test

Course: 3103051, 3103052 – 2 credits

*Riverland BIOL 1091, 1092 – 8 college credits*

Grade: 11-12

Advanced Placement Biology is aimed at those students who have completed the course prerequisites and desire a challenging in-depth study of biology. Students should be self-motivated and read at or above their grade level. This is a two-semester class. The concepts covered in this course will mirror closely the topics offered in an Advanced Placement Biology course and/or a college introductory biology course. You must be willing to spend more time outside of class than you traditionally may have done in other science courses. The additional time outside of class needs to be a priority. Topics covered include: Evolution and Biodiversity, Organisms and Populations, Ecology, Chemistry of Life, Cells and Cellular Energy, Cellular division and Cancer, Molecular Genetics and Heredity, Biotechnology, Scientific Method, and Inquiry.

## **CIS SOCIAL STUDIES**

### **CIS-HUMANITIES SOCIAL 11 A & B**

Prerequisite: PSEO eligible; Accuplacer Test

Grade: 11

Course: 3102111, 3102112 – 2 credits

*Riverland HIST 1001, 1002 – 6 college credits*

Humanities Social 11 is an advanced course in the study of American History, Architecture, Art, and Culture. The course is geared towards the highly motivated student. A Humanities Social student can expect to have heavy homework loads and expect to actively participate in course discussions, note taking, and cooperative groups.

**CIS-AP GOVERNMENT A & B** 

Prerequisite: PSEO eligible; Accuplacer Test  
Grade: 12

Course: 3102203, 3102204 – 2 credits

*Riverland PSCI 1010, 1020 – 6 college credits*

AP Government is a two-term course; students must sign up for A & B. This course will cover the Constitutional underpinning of democracy in the U.S., political beliefs and behaviors of individuals, political parties, interest groups, campaigns and elections, the mechanisms of government including the bureaucracy, legislative, executive, and judicial branches, civil rights, civil liberties, and other elements of government and its relationship to society. This course will help you distinguish the important issues from the non-important; understand and evaluate competing arguments; formulate and express your own opinion on the political and policymaking process; and help you carry on an intelligent discussion on political events.

**CIS-MODERN EUROPEAN HISTORY** 

Prerequisite: PSEO eligible; Accuplacer Test  
Course: 3102471 – 1 credit

*Riverland HIST 1012 – 3 college credits*

Grade: 11-12

This course will survey historical themes, topics and events in European History from the Renaissance (1450) through the present. Class instructional methods will include lecture, discussion, movies/documentaries, reading of primary sources/documents, and writing. Students should have an interest in history, writing, and reading.

**NCAA ELIGIBILITY ACADEMIC REQUIREMENTS** 

Students who are considering participating in a sport at a Division I or Division II college/university must register with the NCAA Eligibility Center and meet specific academic requirements. Courses at ALHS that meet the NCAA Academic Eligibility requirements have the NCAA logo next to the course title throughout this course description guide. Please visit our [website](https://goo.gl/QECcZM) (<https://goo.gl/QECcZM>) and contact your school counselor if you would like more information.

**ALHS School Counselors**

Students with last names <b>A-G:</b>	Ms. Fischer	379-5360
Students with last names <b>H-O:</b>	Ms. Lageson	379-5357
Students with last names <b>P-Z:</b>	Ms. Lommen	379-5355

