

*2015-2016 Course
Description Book*



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ALTA-AURELIA SENIOR HIGH SCHOOL

PURPOSE OF THIS BOOKLET

The purpose of this booklet is to acquaint students with the subject offerings of Alta-Aurelia High School and to provide information, which will assist in the selection of classes by students at the time of registration. Belinda Shea, our counselor, is available to students and their parents in the matter of selection of subjects.

CLASS LOAD

The minimum class load is 7 credits. You may take eight (8) classes with counselor and administration approval; you will not be considered for this option unless your GPA is 3.0 or higher or if you are going to be short credits for graduation.

REQUIREMENTS FOR GRADUATION

(54 credits)

English	8 credits (English I, English II, and Creative Writing or Composition required)
Science	6 credits (Physical Science and Biology required)
Mathematics	6 credits
Social Studies	6 credits (American History I and Government required)
Computers	1 credit
Fine Arts	2 credits (Choir, Band, or Art)
Vocational	3 credits (Business, Family & Consumer Science, Industrial Tech, or Ag)
Physical Education	4 credits
Health	2 credit
Discovery	1 credit
On Your Own	1 credit
Electives	14 credits

DROP POLICY

Only students taking more than the minimum load (7 credits) may drop a course. A course that is dropped before the end of the first nine weeks of a reporting period of a semester will be recorded on the permanent record as a withdrawal. This will not affect their grade point average. All courses that are dropped during the second nine weeks of a semester, except those that are dropped for medical reasons, will be recorded as an "F" and will be figured into the student's grade point average. A student may not drop a required course. Those courses are as follows: English I, English II, Composition or Creative Writing, American History I, Government, Physical Science, and Biology, Discovery, and On Your Own. Students that drop a course will have a study hall added during that period.

* See Alta-Aurelia College Class Policies for information on dropping a college course.

Students may change their schedule during the first 5 days of classes.

REGISTRATION AND SCHEDULING PROCEDURES

March Each student in grades 8-11 will make course selections with help from the counselor, connections advisor, principal and parents.

<u>April</u>	Section numbers set and master schedule built.
<u>May</u>	First and 2nd semester schedules completed and proofed. Master schedule to teachers. Student schedules distributed.
<u>Summer</u>	Any adjustments or changes made – new students registered.
<u>August</u>	School registration – final schedules distributed.

Students may make schedule changes until final schedules are handed out at registration. Changes made after a student’s final schedule is distributed will be subject to the following conditions:

1. School error
2. Graduation or entrance requirements not met
3. School personnel recommendation
4. Class dropped by school
5. Balance section – move from larger to smaller

EARLY GRADUATION

Early graduation will be permitted upon completion of the following criteria:

1. Formal written request by parents and student to administration prior to October 1st of the school year the student intends to graduate. The request shall have the reasons for early graduation and a plan for what the student is going to pursue after graduation.
2. Meeting all state requirements.
3. Meeting all local requirements.

If a student is interested in early graduation, they should begin planning no later than their sophomore year. If early graduation is granted, the student may take part in graduation ceremonies or have their diploma mailed to them.

COLLEGE COURSES

College courses are sometimes taught at Alta-Aurelia High School through Iowa Central Community College. These courses vary from year to year. These classes are open to Juniors, Seniors and TAG students. If you are interested in a particular class let the Guidance Counselor know when you register.

SENIOR YEAR PLUS

The Senior Year Plus Act is intended to promote rigorous academic pursuits and to provide a wider variety of options to high school students by enabling TAG, eleventh and twelfth grade students to enroll part time in nonsectarian courses in eligible post secondary institutions of higher learning in Iowa. In simple terms – a TAG student, junior or senior in high school has the option to attend a university, college, community college or private institution that is eligible under the act.

For students enrolling under this act, tuition is authorized to be paid by the local school district. The amount of tuition reimbursement for each separate course shall equal the lesser of the customary costs of tuition, textbooks, materials and fees directly related to the course taken or two hundred fifty dollars (\$250).

In compliance with 281-IAC 22.6, if a student fails to complete a course, receive credit or receives a failing grade in a course he/she is taking through senior year plus the student or parents must

reimburse the school district for the course, unless the course is an internet based course or considered a 28-E course.

Students may enroll in college courses, if they are proficient in Math, Science, and Reading.

Students may enroll in 24 college credits, per institution, per school year.

Students and/or parents interested in learning more about post secondary credit while in high school should contact the high school counselor.

IOWA LEARNING ONLINE

Iowa Learning Online: <http://www.iowalearningonline.org/default.cfm>

Iowa Learning Online is designed to help local Iowa school districts expand learning opportunities for their high school students through courses delivered “at a distance” using technologies such as the Internet and interactive video classrooms connected to the Iowa Communications Network (ICN). Students enroll in Iowa Learning Online courses through their local school district. We offer our AP courses online through this program. The following are the AP courses that we offer:

AP Calculus AB
AP Chemistry
AP English Language & Composition
AP English Literature & Composition
AP Physics B
AP Statistics
AP US History

Board of Regents, State of Iowa

Admission of freshmen who wish to enroll at any of the Iowa Regent universities beginning Fall 2009 and beyond will be based on the Regent Admission Index (RAI) equation described below. In addition, applicants must meet minimum high school course requirements for the university they wish to enter.

(2 x ACT composite score)
+ (1 x percentile high school rank)
+ (20 x high school GPA)
+(5 x number of high school core courses)

Regent Admission Index Score (RAI)

Freshman applicants from Iowa high schools who achieve at least a 245 RAI score and who meet the minimum number of high school courses required by the Regent universities will qualify for automatic admission to any of the three Regent universities. Freshman applicants who achieve less than a 245 RAI score may also be admitted to a specific Regent University; however, each Regent university will review these applications on an individual basis and the admission decision will be specific to each institution.

Classes that will count towards a student’s RAI score have been denoted in this course description book, by *RAI.

AGRICULTURAL SCIENCE

Introduction to Agriculture and FFA

9-10-11-12

Semester, Elective

In this class students will be introduced to FFA and learn about its history, facts, creed, expectations, and FFA degree's awarded. Students will learn about parliamentary procedure and "Roberts Rules of Order." Students will also explore agriculture basics where they will receive introductory knowledge in the following areas: agriculture mechanics, animal science, horticulture, livestock selection and meat selection.

Animal Science

9-10-11-12

Semester, Elective

In animal science students will learn about and understand animal science principles. Students will study animal health, animal reproduction and animal biotechnology. Students will also gain an understanding of proper feeding and nutrition for animals. Technology in food production will also be studied and how different species of animals feed the world.

Horticulture/Plant Production

9-10-11-12

Semester, Elective

In this class students will learn to use observational techniques properly and how to identify plants using a botanical key. Students will also learn about plant structure and function, and plant propagation. Proper growing media will be studied along with proper use of nutrients and fertilizers and pest management. Construction and maintenance of a greenhouse will also be covered. Demand for various crops and how to allow space for them, business aspect of running a greenhouse and career opportunities in the greenhouse business.

Landscaping Design

10-11-12

Semester, Elective

Prerequisite: Introduction to Agriculture and FFA, Horticulture

In landscaping students will learn about planning and designing a landscape design, analyzing the site for landscape design and choosing the appropriate plants for landscape design. Students will also learn about landscape construction for irrigation, mulching, edging and fencing.

Veterinarian Science

10-11-12

Semester, Elective

Prerequisite- Animal Science

Students will learn about anatomy and physiology, which will include basic cell biology of animals including tissue and systems. Students will next look at animal nutrition which will include basic animal nutrition and then broken down by specific animal nutrition requirements. Student will next study animal disease commonly seen by Veterinary science.

Students will finish by covering basic animal surgery including principles, laceration healing, and surgical considerations.

Wildlife Management/Aquaculture

10-11-12

Semester, Elective

This course will study the factors that affect wildlife populations and the current management practices that are being used to ensure the survival of endangered species. This class will also cover aquaculture practices including anatomy, reproduction and many specific endangered wildlife species and breeds of fish.

Agribusiness Sales, Marketing and Management

11-12

Semester, Elective

Prerequisite: Any Ag class and 1 year of math

Students will learn and understand economic principles in agriculture. They will learn about options, futures and the history of the Chicago Board of Trade. They will learn proper financial management. Students will also study salesmanship and study the needs of starting an entrepreneurship.

Tractor Restoration

11-12

Semester, Elective

Prerequisite: Instructor Approval

Students will develop new skills and mechanical aptitude by taking an old tractor and studying all of the components and understand how each functions. Students will anticipate problems and correct them. Students will develop skills in removing rust, body work, sand blasting, buffing, priming, and painting.

Independent Agriculture

12

Semester or Year, Elective

Prerequisite: Instructor Approval

A student, who has been active within agriculture classes and has demonstrated the ability to manage time and responsibility, is eligible to conduct an independent study. The student needs to have an area of interest and a plan of action to be considered. The student will need to create an outline of their project, present it to the instructor and receive appropriate approval.

ART

Art I

9-10-11-12

Semester or Year, Elective

Art I is designed as a fundamental course to build upon the elements of art used in exploratory courses and to provide opportunities for the student to work in drawing, inks, acrylic paints, clay, jewelry, printmaking, and plaster. Art history will be covered from Romanesque through modern day.

Art II

10-11-12

Semester or Year, Elective

Prerequisite: Art I

Art II is designed to advance the students' skill level in the visual arts. The focus will be on the graphic arts to include commercial design, advertising, computer graphics, silk-screening, and fashion layout. The student will also experiment further in oils, ceramics, jewelry, pencil, inks, and other drawing media. Art history will focus on Egyptian, Oriental, Native American, Aleutian, and the Ancient Americas.

Art III

11-12

Semester or Year, Elective

Prerequisite: Art II

Studio Art I is designed to allow the advanced student to further develop skills in the areas of drawing, painting, jewelry, and clay. The student will be introduced to the airbrush and advanced computer graphics. Each student will design and create an individual project to sum up the year. Art history and art appreciation are incorporated into each project and various artists will be studied in depth.

Art IV

12

Semester or Year, Elective

Prerequisite: Advanced Art I, instructor approval

This course is offered to students who have successfully completed Art I, II, and Studio Art I. These students will have the opportunity to work independently in a structured environment with a variety of art mediums. They will be responsible for completion of the work as set forth in the course syllabus. Students need to be self-motivated and responsible.

Independent Art

12

Semester or Year, Elective

Prerequisite: Instructor approval

A student, who has been actively involved in art classes and has demonstrated the ability to manage time and responsibility, is eligible to conduct an independent study. Students will be responsible for completion of work set forth in a curriculum agreed upon by the student and instructor.

BUSINESS

Business Math

11-12

Semester, Elective

3 credit hours from ICCC

BUS 112

Student applies basic mathematical skills used in personal and business operations. This course includes fractions, decimals, percents, trade and cash discounts, markups, markdowns, interest, depreciation, investments, insurance, payroll, and annuities. Students will be able to calculate solutions to basic math problems with and/or without the aid of a hand-held calculator. They will acquire fundamental math concepts that can be applied to personal and/or job-related situations. Students will gain an understanding of using a computerized spreadsheet program using and applying those concepts in basic mathematical procedures.

Human Relations

11-12

Semester, Elective

3 credit hours from ICCC

BUS 161

This course introduces students to the importance of people skills and personal strategies needed for anyone working in business today. By focusing on working with others in a business setting – coworkers, consumers, and vendors, the students will learn the dynamics occurring at every level of organizations by examining the people, practices, and events that make the world of business what it is today and will be tomorrow.

Introduction to Accounting

11-12

Year, Elective

Students will receive instruction in analyzing and recording various business transactions and in completing the accounting cycle by journalizing, posting, preparing worksheets, making adjusting and closing entries, and preparing financial statements for service and merchandising businesses. Instruction will be provided for accounting by using a petty cash fund, reconciling a bank statement, and utilizing the cash short and over account; calculating and journalizing employees' payroll; and calculating and journalizing employer payroll taxes. No previous accounting instruction is necessary.

Keyboarding

11-12

Semester, Elective

Class limit: 16

This course is designed to introduce students to keyboarding and word processing fundamentals. Emphasis is on the mastery of the keyboard, development of speed and accuracy, and the production of formatted documents using Microsoft Word.

Computerized Accounting

12

Semester, Elective

Prerequisite: Introduction to Accounting

This course is designed to provide the student experience in handling automated accounting in a number of areas. These include General Ledger, Accounts Receivable, Accounts Payable, Payroll, Depreciation, Inventory, and Accounting Statement Analysis. Simulation of business and its activities are processed through the entire accounting cycle culminating in the various accounting reports. The applications will be done on a computer.

Business Concepts

9-10-11-12

Semester, Elective

This course covers the design of business strategies and its implementations in marketing plans. As organizations have become more customer oriented, marketing strategy and planning has developed into a critical managerial activity. This course will also study consumer behavior, marketing research, pricing, distribution, promotion, product strategies and the influence of external factors. The roles of ethics, corporate social responsibility, and public policy that are intrinsic to marketing decision making in global environments will be explored.

COMPUTER SCIENCE

Microsoft Office

9-10-11-12

Semester, Elective

Class limit: 16

This course is designed to refine student's skills in using Word 2010. Students will produce documents that can be used in their academic and personal activities. Upon completion students will have acquired an understanding of Word basics, basic editing and formatting, controlling text, desktop publishing, graphics, and organizing a document. This course is also designed to refine student's skills in using Excel 2010 and PowerPoint 2010. With PowerPoint students will use various tools such as text, graphics, clipart, and animation to create effective presentations that will grab and maintain an audience's attention. With Excel, students will learn how to set up spreadsheets, use graphs and charts, use mathematical formulas, among other topics. Students will reinforce their learning through realistic applications using hands-on tutorials.

Web Graphics I

11-12

Semester, Elective

3 credit hours from ICC

Limit: 16

CIS 255

Get a thorough grounding in Adobe Photoshop and Creative Suite 6, the must-have digital imaging programs for today's web and print designers. Hands-on projects include working with layers,

making selections, incorporating color technique, creating special effects with filters and more. Create complex web graphics such as rollovers.

Photoshop Studio

11-12

Semester, Elective

Class limit: 16

Pre-requisite: Web Graphics

How well do you know Photoshop, the design world's favorite application? If you've got a good grasp of the basics but you're itching to learn more, this course is for you. In this project-based class, students prepare portfolio-level pieces and gain a deeper understanding of CS6.

Video Productions

11-12

Semester, Elective

Class limit: 6

Major Concepts/Content: The Introduction to Video Communications course is designed to provide students with exploratory and investigative activities dealing with camera functions, filming techniques, composition, non-linear/linear editing, and computer animation/graphics. Through a hands-on approach students will learn the entire process of video/television production from initial filming to final editing.

Major Instructional Activities: Students will work in a cooperative environment with their classmates in order to produce video projects, which demonstrate understanding of the fundamentals of video communication. Students will explore career opportunities in the video/television career field and will also complete projects dealing with computer graphics.

Major Evaluative Techniques: Video, computer graphics, film projects will be evaluated for completeness, neatness, and application of video communication concepts. Students will be required to evaluate their work and recommend ideas for increasing the communication value of their work. Complete individual participation in group projects is a requirement for success in this course.

Essential Objectives: Upon completion of the video communications course, students should be able to:

- Explore the historical context and evaluate current careers in the field of video communications.
- Complete video communication projects that demonstrate an understanding of the materials and equipment used in video communication
- Apply the principals of filming, composition, and non-linear/linear editing and computer graphics in order to effectively communicate using the video medium.

Students will work in groups with each contributing equally to the finished project. While not all work will be the same, each will have a component to complete that when added to the whole will result in a completed video. Students will then present six individual projects utilizing their knowledge in video production to create commercials, individual choice projects as well as documentaries and animations.

FAMILY AND CONSUMER SCIENCE

Culinary Arts Cluster:

Basic Food Preparation

9-10-11-12

Semester, Elective

This class is for students of all grade levels and is a hands-on, learn-and-apply, type of class. This is the first of two courses covering basic food preparation. Nutrition will be emphasized in the curriculum, along with menu planning for lunches, table settings, and proper etiquette. Teams of students will prepare white sauce based main dishes, as well as soups, sandwiches, and desserts. Proper, practical use of kitchen equipment will be introduced, along with sanitary practices and food safety. Students also learn teamwork skills while preparing their foods. **This class is a prerequisite for all other foods classes.**

Advanced Food Preparation

9-10-11-12

Semester, Elective

Prerequisite: Basic Food Preparation

This class is for students of all grade levels and is a hands-on, learn-and-apply type of class. This is the second of two courses covering basic food preparation. Menu planning for nutritious dinners, table settings, and etiquette will be incorporated into the curriculum where students will prepare quick breads, yeast breads, main dishes, meats, and cakes. Sanitation and food safety will also be taught, as well as an expanded use of kitchen equipment. Students will have the opportunity to plan a couple of theme parties during the cake unit, where they will practice organizational skills, creativity, and time management. Students also learn teamwork skills while preparing their foods.

World Foods

9-10-11-12

Semester, Elective

Prerequisite: Basic Food Preparation

This one semester class will take a look at the varieties of foods around the world that are eaten in specific geographical areas. The essential question will be, "Who are they, what do they eat, and how do they make it?" Cultural awareness will be enhanced as class members study the origins of specific cooking methods and styles. Attention will be placed on the various ingredients, preparation methods, and the herbs and spices used to create regional flavors. The first quarter will concentrate on U. S. regional foods, particularly on the Southwest, Southeast, Northeast, and Midwest. Cuisines from three foreign countries, typically China, Italy, and Mexico, will be studied and prepared by students during the second quarter. Prepared foods will be evaluated for their quality, palatability, and nutritional value. Kitchen management and organization are incorporated into this curriculum. Students will also learn teamwork skills while preparing their foods.

EARLY CHILDHOOD DEVELOPMENT CLUSTER:

Discovery required for all freshmen

Parenting

9-10-11-12

Semester, Elective

The purpose of this class is to increase self-understanding as well as to enhance student's knowledge of children and their age-appropriate behavior. The decision to parent and the responsibilities of parenthood are discussed, as well as covering the topic of building relationships for married and single parents. This coursework teaches the environmental and hereditary influences during prenatal development and details the entire prenatal process. In addition, individual units cover the various developmental stages from intellectual, physical, social and emotional growth.

Child Development

9-10-11-12

Semester, Elective

Child Development is a continuation of Parenting but no prior coursework is required before entrance into this class. Child Development teaches the four areas of growth (physical, social, emotional, and intellectual) with specific attention given to children between the ages of birth and three. Coursework emphasizes that an individual's personality is almost completely established by the age of two. Knowledge gained from this class will help to lay a good groundwork for developing the potential in children to its' fullest capacity. Students will leave this course with a better understanding of infant and toddler's needs and patterns of development, as well as a better understanding of their own personal development. "Baby Think It Over" simulators are available options that enrollees may request.

Caring for Early Learners (CFEL)

9-10-11-12

Semester, Elective

This course is the third in a continuation of the Parenting and Child Development series. However, no prior coursework is required before entrance into this class. Caring for Early Learners teaches the four areas of growth (physical, social, emotional, and intellectual) with specific attention given to children between the ages four through six. Special needs of children will be addressed as well as current social issues and trends that children face. Safety and first aid for children will also be incorporated into this curriculum. Field Experience, in the form of babysitting, mentoring, or volunteerism, will be incorporated AND required of these students. Often the enrollees in this class are asked to assist with our school's kindergarten round-up.

Interior Design Cluster:

Interior Design

9-10-11-12

Semester, Elective

Interior Design is a class that specifically emphasizes the design elements and art principles and how they apply to our homes. These design rules will be first applied to exterior housing styles where students learn the history of housing and the origins of current American architecture. Color and its' importance in decorating is studied in depth and students also learn how balance, rhythm, line, etc. all play major roles in proper design. The course requires a portfolio where pupils find examples to demonstrate their understanding of the curriculum. Typically at least one field trip is included during this one semester class.

Home Decor

9-10-11-12

Semester, Elective

Students enrolled in this course will continue their in-depth studies of interior design and deal specifically with furniture styles, floor/wall/ceiling décor, and floor planning. The essential question for students is ‘how do I get the look I like?’ Developing personal decorating tastes and styles and acquiring decorating skills will be class objectives. Furniture selection and placement will be a part of this one semester curriculum. A binder portfolio will be required as part of the course work. Actual paint and fabric swatches and flooring samples will be utilized to help students recognize and describe various options available in today’s décor. Students may also create DIY (Do It Yourself) design projects to learn to redecorate on a budget. Curtains, pillows, thrift store items to re-do, etc. will be options for projects. Interior Design is not a prerequisite, but is highly recommended!

Additional cluster courses offered through Industrial Technology and Agricultural Sciences:

Landscape Design and Computer Aided Drafting

Internship – Senior year, only

FOREIGN LANGUAGE

Spanish I

9-10-11-12

Year, Elective

Introduction to the Spanish language and expand awareness of the various aspects of Spanish speaking cultures. The primary focus will be on the spoken communication of Spanish as it is used in today’s Spanish speaking cultures.

Spanish II

10-11-12

Year, Elective

Prerequisite: Spanish I

Spanish II will build upon the language skills acquired in Spanish I. Heavy focus will still be placed upon the spoken communication, but students will become more involved in the reading and writing of Spanish. Contact with various aspects of the Spanish culture will continue.

Spanish III

11-12

Year, Elective

Prerequisite: Spanish II

In Spanish III the focus will be on spoken communication and written communication. Students will continue to develop their mastery of the language through Total Physical Response (TPR) vocabulary, grammar and stories.

Spanish IV

12

Year, Elective

Prerequisite: Spanish III

Spanish IV will continue to focus on spoken and written communication. Students will continue to develop their mastery of the language through TPR stories, grammar constructions and literature such as Don Quijote.

HEALTH

Health**10, Year Required**

Health includes the development, delivery, and evaluation of a planned instructional program and other activities for students. It is designed to influence the health knowledge, attitudes, and skills of the students. The health education curriculum will involve the identification of specific units for the health education classroom describing content, learning activities, and evaluation activities; and the coordination and integration of health content with other subject matter areas.

INDUSTRIAL TECHNOLOGY

The Industrial Tech courses are designed to give the ambitious student a working knowledge of salable skills in the basic industries of our society today. The student is encouraged to enroll in math and science courses which will assist him or her in the Industrial Technology courses. Textbook readings, classroom discussion, and written assignments are important parts of the course as well as actual industrial work in the laboratory. If a student is interested in entering the “world of work” immediately after graduation or entering a vocational/technical school or a four-year college, Industrial Education courses will be a very valuable part of the student’s high school education.

Intro to Industrial Tech I

9-10-11-12

Semester, Elective

This is the entry-level Industrial Technology class. In the first phase of the class, the student will study the basics of mechanical drafting and start learning how to use CAD (computer aided drafting). The material covered will include sketching, working plans, dimensioning, sectional views, auxiliary views, pictorial drawings, furniture design, and 3D modeling.

During the second phase of the course, students will experience how to take care of and use hand tools, power tools, and the importance of safety in a shop. They will be exposed to different types of wood products and their properties, produce different woodworking joints and methods are taught. As the course progresses, the student will be taught how to take raw material and produce various small projects made by each student. Due to safety in the shop, this class should be limited to 12 students.

Industrial Tech II

9-10-11-12

Semester, Elective

Prerequisite: Intro to Industrial Tech I

This course is a continuation of Intro to Industrial Tech I. The student will explore the use of more advanced woodworking construction methods. Each student will design his/her own project that can be produced during the first nine weeks of the class. The second nine weeks will be devoted to explore other areas of Industrial Technology such as and not limited to; welding, basic metalworking processes, electricity, and residential wiring. Due to safety in the shop, this class should be limited to 12 students.

Intro to Furniture/Cabinet Construction

10-11-12

Year, Elective

Prerequisite: Industrial Technology II

Intro to Furniture/Cabinet Construction is a course designed to give students an opportunity to gain exposure to different processing methods of fabrication technologies, employed by modern woodworking industries. Students will learn about tool and machine safety and set up, machine maintenance, product design, production planning, material processing, and occupational information. Model development and problem solving experiences will take place in both individual

and team situations. Students will be required to meet specific deadlines while producing a project. Costs to produce a project will be dependent on project size and wood type, and must be paid by the student in order to take home. The student must regulate their time in order to properly complete their work. Class time and lab time will be estimated as a 50/50 mix. Due to safety in the shop, this class should be limited to 12 students.

Advanced Furniture/Cabinetry Technology

11-12

Year, Elective

Prerequisite: Intro to Furniture/Cabinet Construction

Advanced Furniture/Cabinetry Technology is a course designed to offer instruction in contemporary wood processing techniques. Students will have an opportunity to further develop machine and tool skills as well as applying problem solving techniques to actual production situation. Additional practice in contemporary wood processing and fabrication techniques will be studied and applied. Cost to produce a project will be dependent on project size and wood type, and must be paid by the student in order to take home. Students must be responsible and self-motivated to succeed. The student must regulate their time in order to properly complete their work. Lab time will be significantly increased as class time will be as needed. Due to safety in the shop, this class should be limited to 12 students. All projects must be approved by the instructor.

Intro to Welding Processes

10-11-12

Semester, Elective

Prerequisite: Industrial Technology II

Intro to Welding Processes will cover the basics of Spot Welding, Arc Welding, MIG Welding, Oxygen/Acetylene, Plasma Cutting, and TIG Welding. Different types of metal including sheet metals will be used. Students must master many different weld configurations including but not limited to; butt-weld, T-weld, lap, vertical, horizontal, and overhead weld to complete the course. Students will also be required to perform additional metalworking processes such as bending, grinding, and drilling. The student must regulate their time in order to properly complete their work. Class time and lab time will be estimated as a 50/50 mix. Due to safety in the shop, this class should be limited to 8 students.

Welding Manufacturing

10-11-12

Semester, Elective

Prerequisite: Intro to Welding Processes

Welding Manufacturing will require students to produce a project using the skills they acquired in Intro to Welding Processes. All students taking this course must complete a project. Any costs to produce a project by the student must be paid for by them, in order to take home. Students must be responsible and self-motivated to succeed. The student must regulate their time in order to properly complete their work. Lab time will be significantly increased as class time will be as needed. All projects must be approved by the instructor.

Computer Aided Drafting (CAD)-ProEngineering Software

10-11-12

Year, Elective

Prerequisite: Intro to Industrial Tech I

CAD is a course that is a continuation from the Intro to Industrial Tech I class. It is a class that can be used by a wide variety of people, from the typical homeowner to an engineer. The CAD Software used, ProE, is a powerful software that teaches the students how to create a 3-dimensional (3-D) parametric parts, 2-dimensional (2-D) drawings and 3-D assemblies. It is the very same software used in major industrial design programs. As students gain experience they will create multi-part parametric assemblies, exploded assemblies, parts having complex surface features, and design of sheet metal parts in both a flattened and bent state using parametric modeling.

By the completion of the course, students will be able to have the following skills: apply basic dimensioning techniques, demonstrate keyboarding skills, demonstrate basic CAD operations, demonstrate proper care of CAD equipment, use drafting references and standards, reproduce drawings, demonstrate skill in illustration of more complex projects, follow detailed directions, utilize time effectively, prioritize series of tasks, work with others as a team, listen attentively, and resolve conflict

Electrical Fundamentals

Grades 10-11-12

Note-Only underclassmen are allowed if they have a very strong Math background

One Semester, Elective

Electrical Fundamentals is designed to develop a background of electrical knowledge for students wanting to pursue occupations in the study of science, physics, automotive, industry, maintenance, or construction. Students will gain the knowledge of electricity by using electrical equipment, electronic components and operating multimeters while controlling electrical flow in a lab situation. Students will learn how to calculate electrical usage using Ohm's Law of both Direct and Alternating Current circuits. Students will also complete a core of lab experiments. If time permits, students will experience basic residential wiring fundamentals in a lab situation of a simple room, as well as repairing house hold fixtures. Finally, students will become literate consumer shoppers by knowing the difference between electrical components as simple as light switches and fixtures or as complex as 3 phase electrical motors used to operate large machinery and Industry setups.

Home Maintenance

Grades 11-12

One Semester, Elective

Home Maintenance is a class designed for students to experience what its like to become a home owner or renter and wanting to save money by doing tasks around their home themselves. Topics covered and will not be limited to are; repairing screen doors, basic plumbing, soldering, replacing electrical fixtures or outlets, winterizing a home, various house hold repairs like painting, repairing damaged walls, repairing a torn shingle on a roof, adjusting doors and locks, servicing lawn equipment for the different seasons, car care prevention, and any additional tasks as they come up in their current homes. Students will learn how to operate small equipment, set up machines, and make estimates of small jobs so they know what material to purchase and be able to order the correct amount. Students may be asked to do community service by helping the elderly do repairs in and around their home if time is available and approved. Maximum of 12 students.

LANGUAGE ARTS

English I

9

Year, Required

English I is an introductory high school course that spans four areas: the writing process, term paper writing, paragraph writing, and poetry. The writing process provides instruction on how to find, develop, organize, and write effectively. Term paper writing and paragraph writing invites students to apply the writing process in practical expressions. Finally poetry introduces students to what poetry is, how it is formed, and exposes them to various examples of the genre.

English II

10

Year, Required

English II builds on English I with a review of the writing process and builds skills needed to write academic research papers. It also includes short stories as well as non-fiction and introduces the novel. In addition, drama is introduced beginning with a history of theater, providing students with a background of where theater began and how it has progressed over the ages.

Novels I

10-11-12

Semester, Elective

Novels I is designed to give students choice and help them find a passion for reading. This class will entail not only independent reading, but also group discussions and the use of literature circles. Students will journal daily about their reading and give book talks over the novels they choose.

Novels II

11-12

Semester, Elective

Prerequisite- Novels

Novels II is an intensive reading class designed for readers that enjoy reading and literary analysis. This course will cover more material at a faster rate and challenge the students to analyze, identify, compare and contrast styles of literature. This course is designed for the college bound student.

Literature

11-12

Year, Elective

This course will expose you to other people, other cultures and other countries and make you a different person who realizes the value of not only those near you but around the world too. The world, as you know it, will change; your thinking will broaden. Many things that are far away will seem closer, more intimate. Through the stories, poems, drama, novels, and nonfiction we read you will enter the everyday lives of unknown people and faraway places. You will realize there are many different ways of living in this world and how this rich diversity enhances our lives and contributes to our own personal meaning. Our world is truly a remarkable place inhabited by extraordinary people. Enjoy being transported to different times and places and celebrate the differences among cultures while at the same time recognizing our common bonds. This course will also have an

emphasis with American Literature so we can better understand our culture as well as the history of our country

Speech I

10-11-12

Semester, Elective

The first few weeks the student learns the fundamental of speaking (i.e. controlling fear, critiquing classmates' speeches, preparing introductions and conclusions; etc). After performing a few fundamental speeches, the student will spend the rest of the semester preparing, presenting, and critiquing a wide range of speeches. Some of the speeches require little preparation and are aimed at improving delivery, while other speeches involve several days of preparation and are assigned to enhance research and organizational skills. Speeches include debate, persuasive, informational, improve, and special occasion speeches.

Speech 2

10-11-12

Semester, Elective

Prerequisite: Speech I; sophomores must have instructor approval

Speech 2 is a twofold course; one half of the content is devoted to platform speaking and the other half is devoted to drama. The student is challenged with speaking situations more advanced than the speeches assigned in Speech I. On completion of this course, the student will feel confident in his communicative skills and will understand the essential qualities involved in becoming an excellent public speaker. Units will also be assigned to help the student understand the responsibilities and work needed in preparing a play. Students will perform in a variety of acting scenes, culminating in a public performance held at the end of the semester.

12th grade students must take Composition or Creative Writing.

Composition

12

Semester, Required

Composition builds on the fundamentals of writing covered in English I and English II courses. The writing required in this class is geared for the college-bound student. The student prepares several expository papers: analytical paper, analogy paper, comparison/contrast paper, cause and effect paper, and definition paper. The student prepares a five-page research paper and writes several expressive papers. Each writing assignment is followed by a class discussion of the writings. These discussions are the basis for the revision of the writings.

Creative Writing

Grade 12

Semester, Required

Creative writing is designed to provide the student with general skills and strategies of the writing process. The student will do expository, descriptive, persuasive, and narrative writings, as well as a research essay. Students will also explore a career unit.

Reading Academy
Grades 9-10-11-12
Year, Elective

Reading Academy focuses on comprehension skills and targets vocabulary development and fluency in both fiction and non-fiction materials that are assigned and selected by the students. Students will participate in cooperative comprehension activities, dictated writing, inductive thinking, graphic organizers, round table, pair share, fluency, and reading skills.

MATHEMATICS

Extended Algebra I (years 1 & 2)
9-10-11-12
Year, Elective

Extended Algebra 01 & 02 includes such topics as: evaluation of expressions involving signed numbers, exponents, and roots; properties of real numbers; equations and inequalities involving absolute value; scientific notation; solution of equations in one unknown; solution of simultaneous equations; the algebra of polynomials and rational expressions; word problems requiring algebra for the solution; graphical solution of simultaneous equations; graphs of a variety of function; equations; factoring; Pythagorean Theorem; solution of quadratic equations; computation of the perimeter and area of two-dimensional regions. This class is the same as Algebra I; however, it is taught over a duration of two years.

Algebra I
9-10-11-12
Year, Elective

Algebra I includes such topics as: evaluation of expressions involving signed numbers, exponents, and roots; properties of real numbers; equations and inequalities involving absolute value; scientific notation; unit conversions; solution of equations in one unknown; solution of simultaneous equations; the algebra of polynomials and rational expressions; word problems requiring algebra for the solution; graphical solution of simultaneous equations; graphs of a variety of functions; factoring; Pythagorean theorem; solution of quadratic equations; computation of the perimeter and area of two-dimensional regions; computation of the surface area and volume of a wide variety of geometric solids. Additionally, students should expect daily homework assignments.

Algebra II
10-11-12
Year, Elective
Prerequisite: Algebra I

The content of Algebra 2 is organized around families of functions, including linear, quadratic, exponential, logarithmic, radical, and rational functions. As students study each family of functions, students will learn to represent them in multiple ways – as verbal descriptions, equations, tables, and graphs. Students will also learn to model real-world

situations using functions in order to solve problems arising from those situations. Graphing calculators will be used to help for deeper understanding of functions. Students can expect daily homework and a scientific calculator is strongly recommended.

Geometry

10-11-12

Year, Elective

Prerequisite: Algebra I or Instructor Approval

Geometry helps the student to develop problem-solving skills with practical real-world applications. This course explores basic properties of geometry with an emphasis in problem-solving including deductive reasoning, tools of geometry, line and angle properties, triangle properties, polygon properties, circles, area, Pythagorean Theorem, volume, similarity, trigonometry, and geometric constructions. Students should expect daily homework assignments and a quiz or test weekly. Every college bound student should plan to take this course.

Advanced Algebra and Trigonometry

11-12

Year, Elective

Prerequisite: A letter grade of C or better in Algebra II

This course culminates the process of learning the fundamental skills of Algebra, Geometry, and Trigonometry. Students will analyze and graph advanced functions of quadratics and polynomial functions as well as higher degree functions. Trigonometric functions, exponential and logarithmic functions as well as a conic section will be explored. Several word problems on each section will be explored, giving real world relevance to concepts being discussed. Graphing calculators will be used when applicable to enhance material in text. A scientific calculator or better is strongly recommended. This class will most likely be a prerequisite to students taking advanced mathematical courses in college.

Calculus

12

Year, Elective

Prerequisite: A letter grade of A or B in Advanced Algebra & Trigonometry

Calculus involves a review of some of the more difficult topics from Advanced Algebra for the first few weeks, and then gradually introduces topics relating to limits of functions moving toward the derivative and integration of a function and its applications.

Probability/Statistics

11-12

Year, Elective

Prerequisite: Algebra II

Probability and statistics explores the topics of probability and statistics and how they affect daily life in decision-making. A variety of application problems from fields such as industry, sports, and medicine are examined lending interest and motivation to subject matter. Hands on examples of probability and statistics and some experiments/projects are used to deepen understanding as well as review and master basic topics. Mathematical calculations include the four basic operations, square roots, and some combination and permutation calculations that are standard on most calculators sold today. Emphasis is on understanding what the numeric results mean and how to apply them to the decision-making process.

Consumer Mathematics

11-12

Year, Elective

Prerequisite: Algebra I

This class is aimed primarily at non-college bound students, but provides any student with a sound foundation of business and money management skills. Topics covered include but are not limited to: managing money, owning a car, renting a house or apartment, investments, consumer shopping skills and business related skills.

MENTORING

Mentoring

11-12

Year, Elective

Prerequisite: Counselor Approval

½ credit per semester- Pass/Fail Grading

Mentoring is an opportunity for high school students to assist in an elementary, middle, or high school classroom. They attend class on a daily basis and assist in every day activities that occur in the classroom. The students assist the teacher, as the teacher deems necessary. The students should have some goals of what they would like to learn or accomplish throughout the semester and communicate these goals to the cooperating teacher. The mentoring experience might be especially helpful for students who are interested in going into education as a career. This will give the high school students a brief overview of what occurs in a classroom setting. This class will be offered with pass/fail grading.

MUSIC

Band

9-10-11-12

Year, Elective

This course is designed to provide a comprehensive study of instrumental music emphasizing the following: care of the instrument, music reading, tone production, instrument position, group attitudes, and intrinsic appreciation. All band students will participate in marching band, concert band, and pep band, and must be present at all scheduled performances (unless Director permission is granted). Students will study privately on their main instrument through required weekly lessons (between 15-20 minutes) with the Director. Lessons will be scheduled at the convenience of the student and Director. Students with ANY experience level (including none) are encouraged to participate in band!

Students will have opportunities to participate in All State, District Honor Band Festivals, District Solo/Ensemble Contest, Jazz Band, and Drumline. You must be enrolled in band to participate in any extra-curricular opportunities.

Band is a **full year** elective course. Students who sign up for 1st semester need to plan on being in band for the entire year. If a conflict arises before 2nd semester, students **must** obtain permission from the Director to not participate during 2nd semester.

Choir
9-10-11-12
Year, Elective

High School students will work on and develop proper vocal technique, including: breathing, tonal placement, intonation, rhythmic accuracy, and range. Students will sing and study a variety of choral literature from several musical periods in history as well as develop an appreciation for different styles of music. Music will include English as well as foreign text which is suitable for ensemble. Students will develop performance skills and be expected to participate and perform in all areas of the vocal program. This would include, but not be limited to: Concerts (as dated and specified at the beginning of the year), fall musical, large group contests, solo and ensemble contest, commencement and other performances for special community and school activities. Students will also be required to attend a weekly private lesson during each quarter. Each lesson will last an average of 15-20 minutes and will be scheduled during study hall, before school, or after school. Also, available to students participating in high school choir is jazz choir, All-State auditions, honor choirs and festivals.

Choir is a **full year** elective course. Students who sign up for the 1st semester and have a conflict 2nd semester **must** have director permission for 1 semester of study.

Intro to Music Theory
11-12
Semester, Elective

Prerequisite: Must be enrolled in either Concert Band or Concert Choir in the same semester as this course

This course provides a detailed exploration into music and its components. Students who take Intro to Music Theory will explore music theory, ear training, music history, basic music composition, and music performance. Students will use readings, observations, and performance to engage with the material. Along with standard coursework, students will be expected to complete performance requirements for the course which will include solo preparation on the student's strongest instrument or voice. Both choral and instrumental music will be studied in this course.

This course is designed to act as a bridge for students who are interested in continuing music in college, either as a hobby or a career option; therefore, this course is offered to juniors and seniors, but sophomores will be considered upon request. Students who are interested in music beyond high school are encouraged to take this course.

ON YOUR OWN

On Your Own

11-12

Semester

On Your Own is a required class. Coursework for “On Your Own” will include the following:

- Money Management – credit, savings, investing, checking, loans, and budgeting
- Insurance – life, health, car, and household
- Job Skills – letters of application, resumes, and interviewing
- Health Choices – stress management, time management, personal safety, and food choices
- Household Decisions – food preparation, upkeep, purchases, leases, laundry, and clothing maintenance

Enrollment in this class will begin to prepare young adults for living on their own. The overall objective for “On Your Own” is for students to learn the necessary skills for achieving personal well-being and financial success in their adult lives. This course will be team taught through a combined effort of the business and family and consumer departments.

PHYSICAL EDUCATION

Individual/Team Sports and Activities

Grades: 9 - 12

Year

This course helps meet the physical, mental and social needs of students through physical activities. Students have the opportunity to learn new activities, become more knowledgeable of the rules, and improve their skill level in these activities. Students will also be given the opportunity to take a leadership role and to become a contributing member of a group.

The goal of physical education shall consistently and gradually improve the overall condition of each student. A variety of activities that are challenging, interesting and enjoyable are utilized to accomplish this. The students are provided the opportunity to develop an understanding of movement, an awareness of their body and how the parts function in movement. The student also gains knowledge of the rules and skills necessary to enjoy participation in a variety of activities. With an emphasis in sports that can be throughout their lifetime, it is anticipated that the students will continue participation in one or more activities as an adult. The physical education program shall encourage the students to develop a healthy attitude toward being physically fit.

Physical education is required by state law in Iowa and junior/senior high students are required to participate unless a medical doctor’s excuse is presented to the instructor. Required dress consists of shorts or sweat pants, and t-shirt or sweat shirt, along with athletic type tennis shoes.

Lifetime Wellness
Grade 12
Prerequisite: None
Semester

This course is designed to work with each individual in the context of his or her life-physically, nutritionally, socially, and psychologically. In addition, the course supports the students and their families for long-term health and awareness beyond the physical education classroom. The instructional activities include: cardiovascular aerobic movements, such as Zumba, fitness circuits, running/walking; core strength development through yoga and stretching; nutritional education; environmental stewardship, social connections and family support; outdoor skill development through a variety of outdoor recreational activities. This class will focus on individual fitness goals which will be achievable in one semester. Goals will be generated by the student and teacher, and will include cardio endurance, muscular endurance, flexibility, body fat and weight. Nutritional information will be provided to encourage healthy eating. Students will learn how to coordinate diet and exercise. Daily records will be recorded and evaluated. Final assessment will be based on effort, participation, improvement, and a journal project. Physical Education credit will be given. Required dress consists of shorts or sweat pants, and t-shirt or sweat shirt, along with athletic type tennis shoes.

SCIENCE

Physical Science
9
Year, Required

Physical Science includes the study of basic chemistry and physics. The first semester will cover: scientific method, solids, liquids, gases, atoms, the periodic table, and chemical reactions. Physics is covered in the 2nd semester when we will explore electricity, magnetism, light and sound. This is a freshman course that helps the student develop basic concepts and lab skills for the rest of the high school science courses. The students will take part in class discussions, laboratory experiments, model building, research papers and projects.

Biology
10
Year, Required
Prerequisite: Physical Science

The goal of this class is for students to gain a deep and robust understanding of the fundamental concepts of the life sciences. Students will have the opportunity to explore and research their interests related to the core standards. The standards covered in this class will be the cell, diversity of life, and the environment. The class will be discussing the biochemistry, cellular structure and function and photosynthesis/respiration in the first semester. The second half will focus on genetics, evolution, biotechnology and ecology. The students will take part in class discussions, laboratory experiments, model building, and have the opportunity to display their knowledge in a manner which best suits their talents

Anatomy & Physiology

11-12

Year, Elective

Prerequisite: Passing grade in Biology

This class is intended for students that plan on majoring in the life sciences at a 4 year, 2 year or technical college. The goal of this class is to develop an introductory understanding of the human body. In this class we will cover a majority of the body's organ systems. This course is highly recommended for the student considering a career in the areas of medicine, sports medicine/athletic training, nursing, or the allied health fields. The students will take part in class discussions, laboratory experiments, model building, research papers and projects.

Forensic Science

10-12

Semester, Elective

Prerequisite: Passing Grade in Physical Science

Forensic science is the application of basic biological, chemical and physical science principles. Students will take on the various roles of crime scene investigator, scientists and medical examiner in order to collect and evaluate evidence in a problem-solving environment. Crime-solving techniques will be studied, as well as hands-on laboratory investigations in such areas as fingerprinting, physical evidence, forensic anthropology and forensic serology. This course is standards based graded.

Zoology

11-12

Semester, Elective

Prerequisite: Biology

Zoology is intended for students that are interested in knowing more about the Animal Kingdom. This class will focus on the major phyla and families starting with the invertebrates and working up to mammals. The first half of the class will focus on invertebrates while the second half will focus on mammals and animal behavior. This class is recommended for students interested in health science, agriculture, food, and natural resource career clusters. The students will take part in class discussions, laboratory experiments, dissection, research papers and projects.

Botany

11-12

Semester, Elective

Prerequisite: Biology

Botany is intended for students that are interested in knowing more about the Plant Kingdom. This class will focus on the structure and function of plants, growth and development of plants, evolution and agronomy, and plants as a food source. This class is recommended for students interested in the Agriculture, Food and Nature Resource Career Clusters. The students will take part in class discussions, laboratory experiments, research papers and projects.

Environmental Science

11-12

Semester, Elective

Prerequisite: Biology

Environmental Science is a semester-long course that will study the problems caused by our use of the Earth and what is being done to seek solutions for these problems. Topics will include climate, global climate change, alternative and traditional energy resources, agriculture, pollution and political influences on environmental policy. The students will take part in class discussions, laboratory experiments, model building, research papers and projects.

Earth Science

10-12

Semester, Elective

Prerequisite: Physical Science

This course will cover the make-up of the Earth, such as rocks and minerals, the forces and processes that shape the surface of the Earth, such as erosion, glaciers, plate tectonics, and volcanoes. Geologic time will also be discussed. The course would end by briefly introducing students to oceanography and meteorology. This course has standards based grading.

Nature of Science

11-12

Semester, Elective

Recommended: Speech I

This course will focus on philosophy and context related to science and its research practices and methods. It would cover current issues in science, as well as discuss views of science and address questions about science, particularly how does science relate to religion, if at all? This class would also address the progression of science throughout history. Classroom participation will be stressed. A variety of readings and activities will be provided and performed to enrich classroom discussions. This course has standards based grading.

Basic Chemistry

11-12

Prerequisite: Physical Science

This would be a chemistry course that would focus on the everyday application of chemistry. It is geared towards students who will be non-chemistry majors in college. This course will focus on the types of matter and their categorization, the periodic table and its properties, including atoms and their behavior, and naming chemical reactions and equations, reaction rates, and acids and bases.

Chemistry

11-12

Year, Elective

Prerequisite: Algebra I

This course will be a study of matter and its properties. The characteristics of the elements and the stoichiometric relationship between elements will be emphasized. Atomic structure will be studied with attention given to electron distribution in atoms and chemical bonding. This course is intended

largely as a college prep course. Basic laboratory activities will be performed to enrich the classroom discussion. This course has standards based grading.

Astronomy

11-12

Semester, Elective

Prerequisite: Physical Science, Geometry

Astronomy itself is a science which focuses on celestial bodies and the processes that form them. This course will cover properties of stars, stellar evolution and structure, and galaxies and galactic evolution, as well as orbital models. This course has standards based grading.

Physics

11 - 12

Prerequisite: Algebra I and Geometry

Physics is the study of physical laws and characteristics with applications from everyday experiences designed primarily for seniors in high school. It is intended as a course for applying science to everyday events and to keep abreast of present day technology. Students will study the interactions of matter, force and energy. This course is intended largely as a college prep course. Math skills of algebra, geometry, and trigonometry will be used in this course. Basic laboratory activities will be performed to enrich the classroom discussion. This course has standards based grading.

SOCIAL STUDIES

American History I

9

Year, Required

American History I is an overview course spanning America's birth through the nineteenth century. The goal is to provide students with a background to understand their culture and appreciate their history, and to provide a basis for evaluating or interpreting American history so they can intellectually participate in American democracy as informed citizens. Strong Focuses include the development of democracy, the Constitution, and the different interpretations of the Constitution that lie behind the choices of political philosophies of today.

American History II

10-11-12

Year, Elective

Prerequisite: American History I

American History II is a course designed to provide students with a basic understanding of our history and how things we experience everyday have come to be. We focus on the political, social, and economic history of our country. Topics covered in American History II span from the post-reconstruction era through the civil rights movement. Students will come away with a good grasp of their history, understanding of their personal past, and pride in their country.

World History
10-11-12
Year, Elective

World History is a course designed to provide students with a basic understanding of the world's history and how things we experience everyday have come to be. We focus on the political, social and economic history of our world. We start with pre-history and the world's first civilizations and go through much of western civilization. Students will come away with a good grasp of the world's history, and an appreciation for other cultures and their differences.

World Geography
9-10-11-12
Semester Elective

This course uses inquiry and projects to explore the five themes of geography. We will cover every continent as it applies to those five themes, fully understanding what geography is, and gaining a general knowledge of the rest of the world. We explore location, human characteristics, physical characteristics, human-environment interactions, movement, and regions. We also gain extensive knowledge of the countries of the world and their location on the globe.

Economics
11-12
Semester, Elective

This course is designed to analyze the ways in which people cope with problems of scarcity. The course focuses on topics such as: business organizations, competition and market condition, the role of labor and government, the role of financial institutions, gross national product and comparative economic systems and international trade. Students will define and analyze economic issues rather than memorize facts.

Recent American History
10-11-12
Semester, Elective

This class uses higher order mental processing and inquiry to explore topics of interest in our countries recent history. Students have the opportunity to explore topics of their own interest while informing others of their discoveries. There is much to learn from our recent past and understanding that gives us a firm grasp of the world's current events.

World Religions
10-11-12
Semester, Elective

This class will examine the similarities and differences between the major religions in the world. Students will be asked to research Christian, Muslim, Judaism, Buddhism, and Hinduism. Materials for research will include books, the Web, newspapers, magazines and journals. The class will primarily be student led and research based. Students should understand that this class is structured as an academic rather than a religious experience.

Critical Thinking
11-12
Semester, Elective

The Kennedy Assassination is the backdrop for course focusing on critical thinking and writing, and is presented in a seminar format. Students will examine and evaluate the evidence surrounding the assassination and controversy that followed. After each section, they will write an essay justifying their conclusions.

Pivotal Literature in History
11-12
Semester, Elective

This semester long course is designed to explore and analyze how influential novels in history have had pivotal impacts. It will be team taught and explore the topics from both a literary angle and a historical perspective. The literature selections will involve extensive reading, and class assignments will be designed to challenge the learner.

American Government
12
Semester, Required

This semester long course explores our country's government with special emphasis on how it functions to serve us. We will focus on what we can do to be good citizens and the role we can take in the political process. We will explore current politics and how our values and ideals compare. We will use Iowa's government as a comparison to the national level and in so doing this, get a good grasp of our own state government.

YEARBOOK

Yearbook
11-12
Year, Elective
½ credit per semester

The Yearbook class will be limited to 4-5 students. Students will work with computer programs such as Online Design and Photoshop. The yearbook staff will be trained and involved in all aspects of Yearbook production: decisions on cover and theme, taking pictures, creating a ladder for the yearbook, designing page layouts, editing proofs, promoting the sale of yearbooks, and selling business/patron ads.

Students may join Yearbook 2nd semester with instructor approval.

A.A.C.T.

A.A.C.T.

9-10-11-12

Semester or Year, Elective

This course is intended for Alta Aurelia's identified high school gifted/ talented students. Coursework for A.A.C.T. (Alta-Aurelia Challenge Team) will include a variety of options designed to encourage G/ T students to strengthen their college applications and pursue their own interests. Some of these options are as follows:

- Seminars and independent studies developed and presented by students (Topics of study may include colleges, careers, and other areas of special interest.)
- ACT and PSAT/ SAT study groups
- Service projects and leadership roles initiated by students
- Mentorships
- Quiz bowl teams or judging opportunities

Students enrolled will receive 1/2 credit per semester based on the criteria outlined in the syllabus. Instructor and guidance and /or administrative approval will be required.

ICCC CLASSES AND INTERNET CLASSES

FlexNet Courses

FlexNet courses are taught via the internet using iNET. You can enroll in a FlexNet course at any time throughout the semester, and you have 15 weeks to complete the course from the time of enrollment and payment. Students must login to the course within the first two weeks of their start date. FlexNet courses do not have weekly deadlines, but it is highly recommended for students to stay on task.

ACC 111 FN01 Intro to Accounting (3)
ADM 105 FN01 Intro to Keyboarding (1)
ADM 180 FN01 Administrative Management (3)
ANT 105 FN01 Cultural Anthropology (3)
ART 101 FN01 Art Appreciation (3)
BCA 122 FN01 Basic Word Processing (1)
BCA 146 FN01 Basic Spreadsheets (1)
BCA 164 FN01 Basic Databases (1)
BCA 174 FN01 Basic Presentation Software (1)
*BIO 151 FN01 Nutrition (3)
*BPT 162 FN01 Intro to Biotechnology (2)
BUS 102 FN01 Intro to Business (3)
BUS 112 FN01 Business Math (3)
BUS 121 FN01 Bus. Communication (3) New 2010SP
BUS 130 FN01 Intro to Entrepreneurship (3)
*BUS 185 FN01 Business Law I (3)
*BUS 186 FN01 Business Law II (3)
CHM 110 FN01 Intro to Chemistry (3)
CHM 111 FN01 Intro to Chemistry Lab (1)
Additional Lab Fee Required payable to LateNite Labs
*CHM 130 FN01 Intro to Organic & Biochemistry (3)
CRJ 100 FN01 Intro to Criminal Justice (3)
CRJ 110 FN01 Patrol Procedures (3)
CRJ 120 FN01 Intro to Corrections (3)
CRJ 141 FN01 Criminal Investigation (3)
CRJ 200 FN01 Criminology (3)
CRJ 201 FN01 Juvenile Delinquency (3)
*CSC 110 FN01 Intro to Computers (3)
ECN 120 FN01 Principles of Macroeconomics (3)
ECN 130 FN01 Principles of Microeconomics (3)
EDU 213 FN01 Intro to Education (3)
*ENG 101 FN01 Elements of Writing (3)
*ENG 105 FN01 Composition I (3)
*ENG 106 FN01 Composition II (3)
ENG 111 FN01 Technical Writing (3)
ENV 131 FN01 Environmental Sci: Future Alt. (1)
ENV 133 FN01 Environmental Sci: Population Problems (1)
ENV 135 FN01 Environmental Sci: Pollution Problems (1)
GEO 121 FN01 World Regional Geography (3)
HIS 112 FN01 West Civ: Ancient to Early Modern (4)
HIS 113 FN01 West Civ: Early Modern to Present (4)
HIS 151 FN01 U.S. History to 1877 (3)

HIS 152 FN01 U.S. History Since 1877 (3)
 HIS 211 FN01 Modern Asian History (3)
 HIT 237 FN01 Medical Coding I (3) New 2010SP
 *HIT 239 FN01 Medical Coding II (3) Available 2010FA
 HSC 113 FN01 Medical Terminology (2)
 HSV 162 FN01 Intro to Human Disabilities & Services (3)
 HSV 180 FN01 Ethics for Human Svc. Professionals (1)
 *LIT 101 FN01 Intro to Literature (3)
 *LIT 114 FN01 American Literature (3)
 LIT 155 FN01 Modern World Fiction (3)
 *MA T 111 FN01 Math for Liberal Arts (4)
 *MA T 156 FN01 Statistics (3)
 MGT 101 FN01 Principles of Management (3)
 MKT 110 FN01 Principles of Marketing (3)
 MMS 265 FN01 Mass Communications Law (3) New2010SP
 MUS 104 FN01 Exploring Music (3)
 PEC 107 FN01 Sports and Society (2)
 PEC 111 FN01 Techniques & Theory of Coaching (2)
 PEC 121 FN01 Body Structure & Function (2)
 PEH 185 FN01 Contemporary Health Issues (3)
 PHI 145 FN01 Intro to Ethical Conflicts (3)
 POL 111 FN01 American National Government (3)
 POL 112 FN01 American State & Local Government (3)
 PSY 111 FN01 Intro to Psychology (3)
 PSY 112 FN01 Psychology of Human Relations (3)
 PSY 121 FN01 Developmental Psychology (3)
 *PSY 241 FN01 Abnormal Psychology (3)
 *PSY 251 FN01 Social Psychology (3)
 REL 105 FN01 Intro to Religion (3)
 *SDV 116 FN01 Strategies for Online Academic Success (1)
 SOC 110 FN01 Intro to Sociology (3)
 SOC 115 FN01 Social Problems (3)
 SOC 120 FN01 Marriage & Family (3)
 SOC 130 FN01 Intro to Gerontology (3)
 SOC 140 FN01 Human Behavior in Social Environ. (3)
 SOC 150 FN01 Intro to Human Services (3)
 SOC 200 FN01 Minority Group Relations (3)
 *SPC 101 FN01 Fundamentals of Oral Comm. (3)

The following 4 courses (5 credit hours) can be taken to fulfill the requirements set by the Iowa Board of Educational Examiners to obtain a Coaching Authorization:

*PEC 110 FN01 Coaching Ethics, Technique & Theory (1)
 *PEC 115 FN01 Athletic Dev & Human Growth (1)
 *PEC 123 FN01 Anatomy for Coaching (1)
 *PEC 127 FN01 Care & Prevention of Athletic Injuries (2)

Online Courses

Online courses are taught via the internet using iNET. Each course begins and ends with the semester. The first day of the semester is the first day of the course. Assignments and discussion postings are required for each week of the course.

BIO 102 OL01 Introductory Biology (3)

*BIO 168 OL01 Human Anatomy & Physiology I w/Lab (4)

*BIO 173 OL01 Human Anatomy & Physiology II w/Lab (4)

PSY 111 OL01 Introduction to Psychology (3)

(#) = Number of credit hours

A successful Distance Learning Student...

- is highly motivated and committed to learning.
- possesses excellent time management skills.
- has unlimited access to the internet.
- is familiar with computers and technology.
- can commit at least 5 to 10 hours per week per course.
- is willing and able to login to their course at least 3 to 5 days per week.
- is able to communicate through writing.

TritonPass is a portal system that allows students to access all internet resources such as the Iowa Central student email account, iNET, and WebAdvisor, in one location. It eliminates the hassle of logging in multiple times to access different services. For login information go to www.iowacentral.edu, and click on "Triton Pass", then choose the link that says: *"Need help? Click here to find your Username and Password."*

Iowa Central Student Email

All high school students enrolled in Iowa Central courses are given an Iowa Central student email account, which can be accessed via TritonPass. Course access information for FlexNet and Online courses is sent to this email account.

The following courses have prerequisites that are to be met prior to enrolling:

Course	Prerequisite
BIO 173 Human A&P II	BIO 168 Human A&P I
BPT 162 Intro to Biotechnology	One semester of high school biology & chemistry
BUS 186 Bus. Law II	BUS 185 Bus. Law I
CHM 130 Intro to Organic & Biochemistry	CHM 110 Intro to Chemistry or equivalent
ENG 106 Comp II	ENG 105 Comp I with a "C" grade or higher
HIT 239 Medical Coding II	HIT 237 Medical Coding I
SPC 101 Fund of Oral Communication	ENG 105 Comp I with a "C" grade or higher

The following courses require Placement Scores on ACT, SAT, COMPASS, ASSET or ITEDS (jr. year) exams:

ENG 101	Elements of Writing
ENG 105	Composition I
MAT 111	Math for Liberal Arts
MAT 156	Statistics

Note the following course recommendations prior to enrolling:

BIO 151 Nutrition - Strongly recommend BIO 112 Gen Biol- ogy I & either BIO 163 Essentials of A&P or BIO 168 Human A&P I

BIO 168 Human A&P I - Recommend 1 year of high school biol- ogy AND 1 year of chemistry or equivalent

BUS 185 Bus. Law I - Recommend for 2nd year college student OR upon completion of other college business courses i.e. MGT 101, ECN 120, ECN 130, MKT 110, BUS 102, etc.

CSC 110 Intro to Computers - Basic knowledge of operating a computer needed.

LIT 101 Intro to Literature - Recommend ENG 105 Composition I

LIT 114 American Literature - Recommend LIT 101 Intro to Lit

PSY 241 Abnormal Psych - Recommend PSY 111 Intro to Psychology

PSY 251 Social Psych - Recommend PSY 111 Intro to Psychology

SDV 116 Strategies for Online Academic Success - Must be entering or completing degree via internet.

Coaching Courses - Should only be completed by those who are interested in obtaining a Coaching Authorization and not for transfer credit as some colleges will not accept this credit.

Auto Technology 1- Iowa Central, Storm Lake

This program is designed to teach the theory necessary for success in the fields related to Engine Mechanics. Practical experiences are conducted in a laboratory setting. The topics covered include: small engine, maintenance & repair, auto engine repair, engine performance, automatic trans/transaxle, brakes, electrical systems, heating and air conditioning. Limit 24. Classes: AUT-108 Introduction to Transportation, AUT-163 Automotive Engine Repair, AUT-503 Automotive Brake Systems.

Automotive Electrical Systems- Iowa Central, Storm Lake

This introductory course covers basic electronic theory and utilization of electrical measuring instruments. Emphasis will be on the application of Ohm's Law and the proper utilization of electronic test equipment, including instrument selection, interpretation of results, and maintenance of equipment. Classes: AUT-604 Auto Electrical Measurements, AUT-632 Auto Electrical/ Electronic Systems.

Auto Technology 2- Iowa Central, Storm Lake

This is a level 2 course and is intended for students going into a mechanical career. AUT-881 Automotive Lab 1.

Certified Nurse Aide

Course Title: 75 hr. Nurse Aide Course T10440

Course Location: MMRC Education Center, Storm Lake, IA

Course Description: To prepare nursing assistants for working in nursing facilities and skilled nursing facilities. This also meets the prerequisite for nursing. We only accept 10 students per class.

Requirements: Must be a Jr or Sr, and 16 yrs of age. Must have a SS#. Medical paperwork due the 1st day of class, Physical/TB (within 1 yr) flu injection. Hepatitis B vaccination is recommended.

Must have good attendance and attend at least 75hrs to pass the class. State backgrounds are required by law prior to the first day of class. Uniforms (any color/style) and tennis shoes are required for clinical.

Cosmetology- Faust Institute, Storm Lake

Students will have the opportunity to gain a portion of the necessary hours required to become a licensed cosmetologist. The program is held at Faust Institute of Cosmetology. 3 periods per day, mornings for a full year.