

**COURSE DESCRIPTIONS**  
**AGRICULTURAL EDUCATION DEPARTMENT**

**AFNR (Ag, Food & Natural Resources) (0104, 0104b) elective**

Length: 2 terms 2 credits

Grades: 9-12

This class is a CASE course. We use a lot of inquiry-based learning and have many hands on labs to show the basics of agriculture, FFA, and lab safety. This is the ideal course for those who want a strong foundation in agriculture or for those who are unsure if agriculture is their thing.

**Plant Science (0105, 0105b) elective**

Length: 2 terms 2 credits

Grades: 10-12

Prerequisites but would prefer AFNR

This is a CASE course. CASE courses use inquiry-based learning and have many labs for students to do. The students in this course get to help manage the aquaponics system in the greenhouse. Having taken AFNR is a plus, but is not mandatory to take Plant science.

**Intro to Ag Business (0107, 0107b) elective**

Length: 2 terms 2 credits

Grades: 11-12

This class will focus on agribusiness. Course content includes business organizations, employee/employer relations, sales, advertising, record keeping, and agricultural marketing. This class will also cover record analysis, taxes, budgets, investments, inventory, depreciation, and agricultural credit situations.

**Survey of the Animal Industry (721) DMACC An Sci 114 elective**

Length: 1 term 1 credit

Grades: 11-12

This is a college level course with students having the opportunity to earn 3 hrs. of DMACC credit. The DMACC competencies for AGS 113 (Survey of Animal Industry) will be taught and assessed.

**Ag Business 330 (725) DMACC elective**

Length: 1 term 1 credit

Grades: 11-12

Prerequisite but Ag Bus would be helpful

This is a college level course with students having the opportunity to earn 3 hours of DMACC credit. The DMACC competencies for AGB 330 (Farm Business Management) will be taught and assessed.

**Metals I (0418, 0418b) elective**

Length: 2 terms 2 credits

Grades: 9-12

This class deals with introduction to metallurgy and metal-working. We begin with the history of welding, welding and cutting processes, and metal working safety. After the small portion of in classroom learning, we do a large portion of laboratory in the shop.

**Metals II (0418c, 0418d) elective**

Length; 2 terms 2 credits

Grades: 9-12

This class is a continuation of Metals I. This class works more on advanced welding and cutting techniques and more student projects.

**Small Gas Engines (0419, 0419b) elective**

Length: 2 terms 2 credits

Grades: 9-12

This class goes over the function and operation of 2 and 4 cycle engines. There are many labs that involve tearing an engine apart and putting it back together and fixing a project from home.

**Small Engines II/Agricultural Mechanics (0419c, 0419d) elective**

Length: 2 terms 2 credits

Grades: 9-12

Prerequisite but Small Engines helpful

This class goes over engine operation, electricity, hydraulics, and building Ag structures. This is the class who is in charge of rebuilding an antique tractor.

## **ART DEPARTMENT**

**Art I (1161, 1161b) elective**

Length: 2 terms 2 credits

Grade: 9

Art 1: This is a freshman course designed for students to explore a wide range of art media. The elements and principles of art are applied to basic drawing, beginning painting, ceramics and sculpture, graphic design, digital art, printmaking, and

multicultural handcrafts. Art history and art critique are also studied in conjunction with various assignments. This is a two-term class.

**Art 2 (1161c, 1161d) elective**

Length: 2 terms 2 credits

Grade: 10

Prerequisite: Art 1

Art 2: In this class students build on information and skills covered in Art 1, with a greater emphasis placed on studio work. Students investigate and work with a variety of art and design projects and study basic art history and art critique. This class is two terms and has a prerequisite of Art 1.

**Art 3 (1161e, 1161f) elective**

Length: 2 terms - 2 credits

Grades: 11, 12

Prerequisite: Art 1 and Art 2

Art 3: In this class students build on information and skills covered in Art 1 and Art 2. Assignments become more open-ended as students work to refine their abilities in various drawing, painting, ceramics, printmaking, digital and design media and art history. This class is two terms and has a prerequisite of Art 1 and Art 2.

**Art 4 (1161g, 1161h) elective**

Length: 2 terms 2 credits

Grades: 11- 12

Prerequisite: Art 1, Art 2, Art 3

Art 4: In this class students build on information and skills covered in Art 1, 2 and 3. Personal student vision is expected as students continue to refine and enhance their abilities in drawing, painting, ceramics, printmaking, digital and design media and art history. This class is two terms and has a prerequisite of Art 1, Art 2 and Art 3.

**Art Portfolio (1181) elective**

Length: 1 terms 1 credit (may be taken twice)

Grade: 12

Prerequisites: Art 1, Art 2, Art 3, Art 4

Art Portfolio: This class is designed for advanced students to continue to develop their self-expressive and technical skills. Due to the individualized nature of this class, students must be self-motivated and willing to work independently. Prerequisites for this class include Art 1, Art 2, Art 3 and Art 4.

**Art Portfolio 2 (1181b)** elective with permission of instructor

Length: 1 term

Grade: 12

Prerequisites: Art 1-4 and Art Portfolio

Art Portfolio 2: This class is a continuation of the artistic development process started in Art Portfolio. As stated before, students must be self-motivated and willing to work independently. Prerequisites include Art 1-4 and Art Portfolio

## **BUSINESS DEPARTMENT**

**General Business (0221)** elective

Length: 1 term 1 credit

Grade: 10

This is a comprehensive program for introduction to business courses at the high school level. The goal is to describe for students how the American business economy operates and to help them prepare to make decisions as consumers, wage earners, and citizens within that economy. This course combines explanations of business and economic vocabulary and concepts with practical application to the real world of the American business economy, as well as those around the world. Emphasis is placed on technology- aided research and interpreting statistics.

**Business Management (0223)** elective

Length: 1 term 1 credit

Grade: 10

This class will be a follow-up to the General Business class. Students will have an opportunity to study international business and the challenges of competing in a global economy. Students will be acquainted with skills necessary to own and operate their own business. Students will learn about economics, marketing principles, business, financial planning, finance, accounting, and communication. Students will also gain insight into the relationship between industry, government, and the global economy. A business plan project will also be completed throughout the semester.

**Accounting I (0207, 0207b)** elective

Length: 2 terms 2 credits

Grade: 11

After completing the accounting cycle for a proprietorship in chapters 1-7 the students will be able to complete a similar accounting cycle using automated accounting. The same automated accounting procedure will be used after chapters 10, 13, 15 and 18, so the students will have a thorough working knowledge of accounting using the computer.

With the use of computers, accounting will take on a more exciting and useful approach for the students. This class is part of an articulation agreement with several colleges which include DMACC, Iowa Central College, Ellsworth Community College, AIB, Iowa Western, North Iowa Central Community College and Iowa Lakes Community College. This agreement means that the student can take this course in high school for college credit from the above colleges upon certification that you completed the course and met their minimum competencies for the course. This is a great way to get college credits while still in high school.

**Business Law (2763, 2763b) elective**

Length: 2 terms 2 credits

Grade: 12

To meet the minimum requirements for a successful completion of this course, the student will have a working knowledge of the legal terminology that is introduced in this course. The student will know the elements of a contract and the effect of the following on contracts: fraud, duress, undue influence, forbearance, damages and bankruptcy. The students will know the different legal bearings between bailments and contracts. The students will know their rights and duties as the following: a buyer, a seller, an employee, an employer, an operator of a motor vehicle, as a landlord, and as a tenant. The student will know the requisites of valid wills and the legal bearing of: a testator, an executor, an administrator, and a probate court. The student will recognize situations that are beyond his realm of completion and in which professional legal assistance is needed.

**21st Century Skills (0224) required**

Length: 1 term 1 credit

Grade: 12

Students will learn about personal finances and using financial planning for their lifetime experiences. Topics covered include - Budgeting, Goals, Career Planning, Decision-Making, Banking (Checking/Savings accounts/Loans), Credit, Insurance, Taxes, Investing, Buying/Leasing A Vehicle, Buying A Home, Renting A House or Apartment, Being An Informed Consumer, and Identity Fraud.

**School-To-Career Internship and Seminar (STC) (0224) elective**

Length: 1 term 1 credit

Grade: 11 or 12

This is a course for students who would like to learn about a particular industry or occupation by doing a job shadowing type of experience. They will fill out a sample job application form and then will be set up with a placement in the local community based

on their given interests. They will be given an opportunity to gain experience outside the classroom and develop specific work related skills. On-the-job experience will be combined with classroom instruction assignments involved with the overall atmosphere of employment. Journals will need to be kept on what they have done each time with their participation. Attendance and appropriate dress are important considerations for these experiences outside the classroom. If scheduled during class time, they will attend their placement then. If the class is scheduled for a different block that may be the time they will attend their placement.

## **ENGLISH DEPARTMENT**

### **English 1 (1001, 1001b) required**

Length: 2 terms 2 credits

Grade: 9

English/Language Arts 1 is a required course for 9th Grade students. This course focuses on a variety of core skills surrounding reading, writing, speaking/listening, and language use. Skills that are assessed are: personal narrative writing, analyzing literary fiction (Shakespeare), analyzing non-fiction texts, informative writing and speaking, socratic questioning, persuasive writing and researching. In addition to this, students will complete a current event study as well as a short story study.

### **English 2 (1002, 1002b) required**

Length: 2 terms 2 credits

Grade: 10

English/Language Arts 2 is a required course for 10th Grade students. This course focuses on a variety of core skills. This course focuses on a variety of core skills surrounding reading, writing, speaking/listening, and language use. Skills that are assessed are: analyzing literary fiction (Greek Mythology), analyzing arguments and rhetorical devices, competing in a classroom debate, participating in discussions over a literary text (Night), and writing informatively. Students will also complete a poetry analysis/portfolio and a visual media presentation.

### **English 3 (1003,1003b) required**

Length: 2 terms 2 credits

Grade 11

English/Language Arts 3 is a required course for 11th Grade students. This course focuses on a variety of core skills. This course focuses on a variety of core skills surrounding reading, writing, speaking/listening, and language use. Skills that are assessed are: analyzing literary fiction in a variety of mediums (Shakespeare),

analyzing US Seminal/Historical documents, writing an argumentative essay, speaking to persuade, speaking to inform, speaking to entertain, and informative writing. Students will also complete a nonfiction study as well as a “Real World” study which will include resume writing, cover-letter writing, and interviewing.

**English 4 (1004,1004b) - elective**

Length: 2 terms 2 credits

Grade: 12

English/Language Arts 4 is an elective course. This course focuses on a variety of core skills. This course focuses on a variety of core skills surrounding reading, writing, speaking/listening, and language use. Skills that are assessed are: analyzing literary fiction (poetry), writing persuasively and presenting on it, collaborating in a range of discussions (literature circles), researching, and analyzing nonfiction. Students will also complete a business plan and presentation as well as a creative writing unit and a final presentation over a topic of choice.

**Composition 1 (1101) - elective**

Length: 1 term 1 credit

Grade: 11-12

Composition 1 is an elective course that provides students with writing foundations that prepare them for the demands of academic and professional writing. In this course, students will learn and practice the strategies and processes that successful writers employ as they work to accomplish specific purposes. In college, these purposes include comprehension, instruction, entertainment, persuasion, investigation, problem-resolution, evaluation, explanation, and refutation. In addition to preparing students for academic communication, this core-curriculum course prepares students to use writing to realize professional and personal goals. Accordingly, class discussion and readings will address the function of rhetoric and of composing processes in a variety of contexts, with attention to various audiences. Students will complete the following tasks: narrative (flash fiction), editing text of choice, argumentative essay and opinion editorial, short story analysis, US Seminal Document analysis, and a final portfolio.

**Composition 2 (1102) elective**

Length: 1 term 1 credit

Grade: 11-12

Composition 2 is an elective course. This course is a “writing workshop”. There will be a strong emphasis on writing structured and well-supported essays, along with students being immersed in a wide variety of writing genres. They will be expected to create

works of their own, and to analyze, respond to, and edit the work of others. Both formal and informal writing will occur, and students will be exposed to a number of pre-writing and post-writing strategies. Students will complete the following tasks: informative research project, poetry analysis/writing, real-world problem solving, literary analysis, personal interview/profile writing, rhetorical analysis, and a final portfolio.

**American Literature (1054) – elective**

Length: 1 term (1 credit)

Grade: 10-12

American Literature is an elective course. This course is a survey of American literature and literary history, from the early pre-colonial period to present day. Our goal will be to acquire a grasp of the canon of American literature as it is typically conceived and the various logics behind its construction. This course will involve analyzing a variety of literary pieces through class discussions as well as individual and group writing exercises.

**British Literature (1056) elective**

Length: 1 Term (1 credit)

Grade: 10-12

British Literature is an elective course. This course is a survey of British literature, from the early years to present day. Our goal will be to acquire a grasp of the canon of British literature as it is typically conceived and the various logics behind its construction. This course will involve analyzing a variety of literary pieces through class discussions as well as individual and group writing exercises. The course is designed around six thematic units. Each unit will consist of a variety of reading and writing activities and will result in a final examination.

**FAMILY AND CONSUMER SCIENCE DEPARTMENT**

**Foods I (22202-1 ) elective**

Length: 1 term 1 credit

Grade: 9-12

Foods I is a hands-on course designed to build your cooking skills. The course is designed to provide the student with the opportunity to take food principles and techniques and apply them in a hands-on environment. This course provides a level foundation of knowledge and skills, regardless of previous experience already gained. Students will participate in the daily selection, planning and preparation of a variety of recipes and cooking labs.

**Foods II (22202-2 )** elective

Length: 1 term 1 credit

Grade: 9-12

Foods II is a hands-on course designed to build your cooking skills. The course is designed to provide the student with the opportunity to take food principles and techniques and apply them in a hands-on environment. This course provides a level foundation of knowledge and skills, regardless of previous experience already gained. Students will participate in the daily selection, planning and preparation of a variety of recipes and cooking labs.

**Foods III (22202-3 )** elective

Length: 1 term 1 credit

Grade: 9-12

Foods III is a hands-on course designed to introduce the student to international cuisine, regional cooking, advanced food preparation techniques, and careers available in the food industry. Students will participate in the daily selection, planning and preparation of a variety of recipes and cooking labs. Emphasis will be placed on etiquette and current topics in the food industry.

**Foods IV (22202-4 )** elective

Length: 1 term 1 credit

Grade: 9-12

Foods IV is a hands-on course designed to develop skills in food preparation techniques, meal planning, food presentation and consumer skills. Students will participate in the daily selection, planning and preparation of a variety of recipes and cooking labs. Students will become skilled in recipe reading, managing time and resources in food preparation, and making informed food choices.

**Adult Living Skills (22206 )** elective

Length: 1 term 1 credit

Grade: 11-12

Adult Living Skills is designed to help prepare students for living on their own after high school. Students develop decision-making skills as they relate to food selection and preparation, clothing selection and care (fashion), housing alternatives (interior design), and personal financial planning. The intent is to help students understand both the immediate and long-range consequences of the decisions they will be making.

**Child Growth and Development (22204 )** elective

Length: 1 term 1 credit

Grade: 9-12

Child Growth and Development is the study of human development from conception through adolescence. Students identify social, physical, intellectual, and emotional developmental milestones for each age level while focusing on the responsibilities of parents, families, and caregivers to nurture the development of children. Students are given the opportunity to participate in a parenting simulation.

## **FOREIGN LANGUAGE DEPARTMENT**

### **Spanish I (1201, 1201b) elective**

Length: 2 terms 2 credits

Grades: 9 -10

This class is designed to acquaint students with the basics of the Spanish language. Students will learn to speak, as well as comprehend, read, and write the language. Students will build a basic working vocabulary that will include such items as greetings, conversational openings, telling time and idiomatic expressions, commonly used in everyday life. Students will learn how to conjugate and use regular, irregular and stem changing verbs in the present tense and the present progressive tense. Formation of Spanish sentences and questions will be studied. Also included in Spanish I will be songs, games, skits and short reading selections related to culture and life in Spanish speaking countries. By the end of Spanish I, students will have a basic beginning knowledge of Spanish.

### **Spanish II (1201-2, 1201-2b) - elective**

Length: 2 terms 2 credits

Grades: 10-11

Prerequisite: Spanish I

This class is designed to further develop the student's knowledge of the Spanish language. Students will enrich their Spanish vocabulary and use of idiomatic expressions. They will become more proficient in reading and writing the language. Students will learn to conjugate and use regular, irregular and stem changing verbs in the present progressive and preterite verb tenses. Direct and indirect object pronouns will be studied. Also included in Spanish II will be songs, games, skits and reading selections related to Spanish speaking countries.

### **Spanish III (1201-3, 1201-3b) - elective**

Length: 2 terms 2 credits

Grades: 11-12

Prerequisite: Spanish I & II

This class is designed to more fully develop the student's knowledge of the Spanish language. Students will review and enrich their Spanish vocabulary and use of idiomatic expressions. They will become more proficient in speaking and writing the Spanish language. Students will learn to conjugate and use regular, irregular and stem changing verbs in the imperfect, future, conditional, and present perfect verb tenses. Formal and informal commands will be learned. Also included in Spanish 3 will be Spanish gestures and Spanish signs, reading and writing personal letters in Spanish, music, art, as well as other cultural units related to the Spanish speaking world.

**Spanish IV (1201-4, 1201-4b) - elective**

Length: 2 terms 2 credits

Grades: 12

Prerequisite: Spanish I, II and III

This class is designed to further enhance the student's knowledge of the Spanish language. Students will review and enrich their Spanish vocabulary and use of idiomatic expressions. The students will learn the future, conditional, and subjunctive verb tenses, as well as review all other tenses previously taught. They will also become even more proficient in reading, understanding, and discussing current magazine and news topics of the Hispanic world. A brief grammar review and some special language techniques will be studied, enabling students to express themselves more freely in conversation and in writing.

## **INDUSTRIAL ARTS DEPARTMENT**

**General Industrial Arts- (1611, 1611c) elective**

Length: 2 terms 2 credits

Grades: 9-10

The course will cover beginning woodworking techniques. The areas of study include safety, tool and machine operation, designing, and background of the woodworking industry. The minimum requirements are: complete all classroom work, build a small woods project, and create a set of directions for that project.

**Woodworking- (0417, 0417b) elective**

Length: 2 terms 2 credits

Grades: 10-11

Prerequisite: General Industrial Arts

Woodworking is a continuation of General Industrial Arts with more emphasis on the use of power tools, planning of larger projects, and problem-solving activities related to

the world of work. Students are expected to be self-directed through their planning process and as they complete their projects. The minimum requirements are: draw and plan a project that meets requirements of the class while being self-directed.

**Advanced Woodworking (0417c, 0417d)** elective

Length: 2 terms 2 credits

Grades: 11 - 12

Prerequisite: General Industrial Arts & Woodworking.

Same as woodworking but create a more complex project, self-directed.

**CAD (Computer Aided Drafting) (0413, 0413b)** elective

Length: 2 terms 2 credits

Grades: 9 - 12

CAD Design and software courses introduce students to the computer-aided drafting systems available in the industry. Students will explore 2 and 3 dimensional drawing. The minimum requirements are: projects include 3 dimensional drawing of houses, drawings of wood working projects and other 2 dimensional projects drawing projects.

**Metals I (0418, 0418b)** elective

Length: 2 terms 2 credits

Grades: 9-12

This class deals with introduction to metallurgy and metal working. We begin with the history of welding, welding and cutting processes, and metal working safety. After the small portion of in classroom learning, we do a large portion of laboratory in the shop.

**Metals II (0418c, 0418d)** elective

Length: 2 terms 2 credits

Grade: 9-12

Prerequisite: Metals I

This class is a continuation of Metals I. This class works more on advanced welding and cutting techniques and more student projects.

**Small Gas Engines (0419, 0419b)** elective

Length: 2 terms 2 credits

Grades: 9-12

This class goes over the function and operation of 2 and 4 cycle engines. There are many labs that involve tearing an engine apart and putting it back together and fixing a project from home.

**Small Engines II/Agricultural Mechanics (0419c, 0419d) elective**

Length: 2 terms 2 credits

Grades: 9-12

Prerequisite: Small Engines helpful

This class goes over engine operation, electricity, hydraulics, and building Ag structures. This is the class who is in charge of rebuilding an antique tractor.

**Automotive -DMACC Dual Credit elective**

Length: 8 terms 8 credits

Grades: 11-12

Shop Fundamentals and Minor Service (0912) Auto Engine Repair (0912b)

Automotive Brake System/Service (0912c) Automotive Electricity/Electronics (0912d)

The Auto Mechanics Technology program is designed to prepare students for steady employment, professional growth and personal satisfaction. This program will educate students new to the automotive field, or update those already employed.

**Building Trades/Carpentry - DMACC Dual Credit**

Length: 8 terms 8 credits

Grade: 11-12

Construction and Blueprint Reading (0414) Power/Hand Tools (0414b)

Material/Construction Theory (0414c)

**Electricity- DMACC Dual Credit**

Length: 8 terms 8 credits

Grade: 11-12

Motor Controls (0441)

Principles of Electricity (0441b) Programmable Logic Controllers (0441c) Hand/Bench Machine Tools (0441d)

**MATHEMATICS DEPARTMENT**

**Algebra I (2031, 2031b)– required**

Length: 2 terms 2 credits

Grades: 8-9

Algebra is the first of a series of courses designed to prepare a student for college. Students in the class will review basic equation solving and then move on to more advanced forms. They will also continue their work with proportions and problem solving skills involving algebraic concepts. They will finish the course with an indepth study of graphing, solving systems of equations, powers, and factoring.

**Geometry (2034, 2034b)**– required

Length: 2 terms 2 credits

Grades: 10-11

Prerequisites: Algebra I

Geometry is a full year course designed with the dual purpose of studying the concepts and applications of plane geometry and developing the logic basis of mathematics. Areas covered include reasoning, parallels, polygons, circles, triangles, trigonometry, and volume and area.

**Algebra II (2041, 2041b)** - required

Length: 2 terms 2 credits

Grades: 10-11

Prerequisites: Grade C or better in Algebra I or instructor recommendation Algebra II is a continuation of Algebra I and the third recommended course for students going on to college. Certain topics such as solving equations and inequalities will be reviewed and studied in more depth than was possible in Algebra I. New topics will include radicals, imaginary and complex numbers, quadratic equations, functions, coordinate geometry, and rational numbers.

**Pre-Calculus (2053, 2053b)** – elective

Length: 2 terms 2 credits

Grades: 11-12

Prerequisites: Geometry, Algebra II and instructor recommendation.

Areas studied include trigonometry, exponential and logarithmic functions, analysis of higher order equations, sequences and series and matrices and vectors. Students will utilize technology to increase the depth of their understanding of the nature of functions and transformations.

**Calculus (2054, 2054b)** – elective

Length: 2 terms 2 credits

Grades: 12

Prerequisite: Pre-Calculus or permission of instructor

Calculus is the study of variable quantities and is applied in the fields of engineering, science, business, accounting and economics. This course is designed to cover the content a student would encounter in a Calculus I course at a university. It is similar to Iowa States Math 165 - First semester calculus I. Applications of calculus are the central focus of the class. Students will be expected to use to technology to increase the depth of their understanding of the key concepts of calculus.

## **MUSIC DEPARTMENT**

### **High School Chorus (1130, 1130b, 1130c, 1130d) elective**

Length: 4 terms 2 credits

Grades: 9-12

Prerequisite: Jr. High Chorus

This course may be repeated for credit until 8 credits have been earned.

Members of the High School Chorus learn a variety of music ranging from popular to classical. They learn teamwork skills and theoretical concepts that help them improve their performance. They perform concerts and other events that occur outside the school day. Most Senior members and some underclassmen earn the chance to travel as a part of the course. The course is graded and the grade counts toward the students GPA.

### **Band (1121, 1121b, 1121c, 1121d) elective**

Length: 4 terms 2 credits

Grades: 9 – 12

Prerequisite: Jr. High Band

This course may be repeated for credit until 8 credits have been earned. Members of the High School Band learn a variety of music ranging from popular to classical. They learn teamwork skills and theoretical concepts that help them improve their performance. They perform concerts and other events that occur outside the school day. Most Senior members and some underclassmen earn the chance to travel as a part of the course. The course is graded and the grade counts toward the students GPA. Students will be required to rent or own an instrument and to purchase some materials.

## **PHYSICAL EDUCATION/ HEALTH**

### **Physical Education (2302) required**

Length: 1 term 1 credit

Physical Education class will include physical fitness activities that increase cardiovascular endurance, muscular strength and flexibility. The activities will include leisure and lifetime activities. Activities covered will be volleyball, scooter games, basketball, softball, slow pitch, whiffleball, flag football, golf, tennis, badminton, pickleball, table tennis, shuffleboard, cross country skiing, trust games, soccer, obstacle

courses and repelling. If a student misses physical education, that student has to make up the time missed by writing an acceptable report. This report will be written on whatever the class was participating in at the time or an acceptable topic agreed upon by the instructor and student. If a student has over two unexcused absences a quarter, that student will fail that quarter.

**Health (1401, 1401b) elective**

Length: 2 terms 2 credits

Grades: 11-12

The main focus of this course deals with the student's ability to make responsible decisions in regards to their health. Areas covered in health include the following state-required areas: (a) self-esteem, responsible decision-making, personal goal setting; (b) interpersonal relationships; (c) premarital sexual relationships; (d) family life and parenting skills; (e) human sexuality, reproduction, contraception and family planning, prenatal development including awareness of mental retardation and its prevention, child birth, adoption, available prenatal and postnatal support and male and female responsibility; (f) sex stereotypes; (g) behaviors to prevent sexual abuse and sexual harassment; (h) sexually transmitted diseases, including AIDS and their causes and prevention; (i) substance abuse, treatment and prevention; (j) suicide prevention; (k) stress management; (l) first aid and CPR. A student shall not be required to take certain units within the health course if the pupil's parent or guardian files with the principal a written request that the pupil be excused from the instruction for religious or other reasons.

**CNA (Certified Nurse Aide Training)- DMACC Dual Credit (1504) elective**

Length: 2 terms 2 credits before school

Grades: 11, 12

This course is designed to provide the knowledge and skills needed to care for patients/residents in a variety of long-term care facilities.

**Advanced CNA- DMACC Dual Credit (1505) elective**

Length: 2 terms 2 credits

Grades: 11, 12

This course is designed to provide the knowledge and skills needed to care for patients/residents in a variety of long-term care facilities. After successful completion of the Nurse Aide course, the student would then be eligible to take the Advanced Nurse Aide.

**SCIENCE DEPARTMENT**

**Physical Science (1703, 1703b) required**

Length: 2 terms 2 credits

Grade: 9

The following are basic requirements for the completion of this course. The student should be able to measure length, area and mass volume in the metric system; measure the density of solids; measure the rates of events. The students should be able to identify: properties and changes in matter; solutions; acids and bases; methods of preparation and properties of gases and rates of chemical reactions. They should understand the force of gravity; the relationship between force and work; molecular forces; magnetic forces; and static electricity forces. They will understand the basic principles of forms of energy: heat, light, sound, electricity, and will study electrical circuits.

**Biology (1711, 1711b) required**

Length: 2 terms 2 credits

Grade: 10

Biology will require the student to achieve the following things. The student will be able to state the parts of the living cell. The student will be able to state the function of the parts of the cell. The student will be able to state the levels of organization of individual organisms and also groups of organisms. The student will be able to show how all living organisms are related to the total existence of life on earth. The student will be able to dissect organisms and see how their structures are related to their functions etc. The student shall become aware of several basic health principles and problems related to humans. The student shall develop a basic knowledge of the structure and function of the human body.

**Environmental Science (1751, 1751b) elective**

Length: 2 terms 2 credits

Grades: 11-12

This class is built around the CASE model for Natural Resources and Ecology. are many labs for students to do to find out about how nature works and how human interaction affects nature. This class is very inquiry based and hands on.

**Research Science I (1742) elective**

Length: 1 term 1 credit

Grades: 9-12

Research science is a course in which students will study current science topics, develop a framework for presenting those topics, learn how to do general academic/business research, and how to accomplish tasks in small and medium sized groups. Students will learn how to write a research paper, make Powerpoint presentations, podcasts and I- Movies. Students will journal each days activities and log formative assessments.

**Research Science II (1742b) elective**

Length: 1 term 1 credit

Grades: 9-12

Prerequisite Research Science I

Research Science II is a course in which students will study current science topics, using a variety of research methods. Research Science II will build upon what you have learned in Research Science I. Students will learn how to present their findings as well as how to work effectively in groups.

**Anatomy and Physiology (1713, 1713b) elective**

Length: 2 terms 2 credits

Grade: 12

In order to successfully complete the course in Human Anatomy, the students will have to accomplish certain basic learning activities. The students will have to learn about the structural organization of the human body from the cell to the total organism. The student will be able to list the names of the organs of the body and be able to state the structure and function of each. The student then shall be able to list the relationships that exist between the various systems of the body. The students shall be able to discuss several of the diseases or defects that can affect the human body along with being familiar with the structure and function of the human body systems.

**Chemistry (DMACC alternates with Physics) (1721, 1721b) elective**

Length: 2 terms 2 credits

Grades: 11-12

The minimum requirements for the completion of the chemistry course will include the following. The student should be able to describe the properties of matter in terms of molecular motion of solids, liquids or gases. He/she will be able to name and describe the parts of an atom, describe the two types of chemical bonding to form compounds, and predict chemical reactions between elements by studying the periodic chart. The student shall have conquered the gas laws and be able to do the problems correctly. The student will have a working knowledge of basic organic chemistry. He/she should be able to name and properly use the laboratory equipment. He/she should have a

working knowledge of the metric system and possess necessary mathematical skills for chemical operations. The students will prepare and present a science project and/or complete a research paper as course requirements.

**Physics (DMACC alternates with Chemistry) (1212, 1212b) elective**

Length: 2 terms 2 credits

Grades: 11-12

Students will be able to perform basic operations with scientific notation, metric units, conversion factors, vectors and graphs. Students will be familiar with force and motion problems, problems dealing with work, power and energy, and machines, the structure of matter, light, heat and electricity. Geometry and trigonometry recommended.

**Environmental Science (1751, 1751b) elective**

Length: 2 terms 2 credits

Grades: 11-12

This class is built around the CASE model for Natural Resources and Ecology. There are many labs for students to do to find out about how nature works and how human interaction affects nature. This class is very inquiry based and hands on.

**SOCIAL STUDIES DEPARTMENT**

**Modern United States History (2724, 2724b) required**

Length: 2 terms 2 credits

Grade: 9th

A study will be made on the Industrial Revolution, the importance of immigration and the contributions the immigrant made to the United States. Further studies will be made on the Progressive Era, reasons for WW I, WW I itself and the entry of America. The first semester will end with a study of the 1920's and 1930's with an emphasis upon the Depression. The second semester will explore the reasons for WW II, America's entry into the War and the War itself. Other units to be studied will be the 1950's, 1960's and the Vietnam War, and the 1970's.

**Current Issues (2751) elective**

Length: 1 term 1 credit

Grades: 9-12

The special emphasis of this class will center on news of the day. Using news item from the Internet, students will be expected to lead the class in a discussion on a current news item.

**Topics in U.S. History** elective

Length: 1 term 1 credit

Grades: 10-12

The class will study our country's major events from the end of Vietnam through today. Topics to be studied will be Watergate, the Reagan years, the Gulf War, the Clinton years, the War on Terror, globalization, the recession of 2008 and our debt crisis. A study will also be made on life in the US at that time period. An inquiry approach will be used in these units of study, where the student will research or study primary resources of the period.

**World Geography (2701)** elective

Length: 1 term 1 credit

Grades: 9-10-11

This geography course places heavy emphasis on the Eastern Hemispheric areas of the world. Particular world areas to be included would be the "New" Europe, the Middle East, Asia, The commonwealth of Independent States and Africa. Individual projects will be offered to students with various interests during the semester. In addition, students will be doing projects with the computer.

**World History (2704, 2704b)** required

Length: 2 terms 2 credits

Grade: 11

Patterns such as development of ancient civilizations in river valleys and periods such as the Age of Exploration will be studied. How systems of power and authority and government develop and change (ie the origins of Feudalism and the Rise of Absolute Monarchy). Understand the role of culture and cultural diffusion on the development and maintenance of societies ie understand the origins, central ideas and global influence of world religions. How systems of trade have developed and changed from Ancient Ur to the Roman Empire to the British Empire. Understand the effects of geographic factors on historical events (ie the Fall of Constantinople). Understand the role of innovation on the development and interaction of societies (ie the Engineering the Royal Road of the Ancient Persians). Understanding cause and effect relationships (ie the French Revolution creating the conditions for the rise of Napoleon). Understand the role of individuals (ie Prince Henry the Navigator) and groups (I e East India Company) within a society as promoters of change and status quo.

**U.S. Government (2730) required**

Length: 1 term 1 credit

Grade: 12

This course is designed to prepare the student for his future interaction in political affairs with an emphasis on preparation for his/her role as a decision-making citizen in the U.S. The course of study involves units on the foundations of American Democracy, which includes the Constitution and its historical basis, elections and voting, how to participate in government, legislative process, court systems and international affairs.

**Sociology (formally Behavior Science) (2772) elective**

Length: 1 term 1 credit

Grade: 12

This course of study takes a look at the workings of our society. Students are expected to lead or participate in class discussions. Upon the completion of the course, students are expected to have knowledge of culture, individual and group behavior, society as a whole and the number of problem areas of our society.

**Economics (2741) elective**

Length: 1 term 1 credit

Grade: 12/11

This course of study is to give the student information on the makeup of our economy. Some of the topics to be studied are, characteristics of a "Free Market" economy, types of economic systems, supply and demand, circular flow of economic activity, fiscal and monetary policies, and international trade. This course would be recommend if you are planning on going to college and majoring in business.

**Psychology (2771)**

Length: 1 term 1 credit

Grade: 12

DMACC Dual Credit

It is the study of behavior and the mind. A survey of psychology including theoretical and experimental findings and applications from areas such as physiological, learning, memory, personality, developmental, social, abnormal, and therapy.

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**EDGENUITY CLASSES (FORMALLY KNOWN AS E2020 CLASSES)**

Students will sometimes find that they cannot find a class that will fit into a block. An option that students now have is to take a computer generated class in a virtual classroom. The lessons provided promote academic success in an online learning environment. The school counselor has a list of classes that may be of interest to the student. See the counselor to see the list of classes available to Glidden-Ralston students.

Once the student has decided on a class, he/she must fill out a class registration sheet and give to the Success Program Coordinator who will begin the login process with the student.

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### **DMACC INFORMATION**

Students must meet certain requirements before they can take an academic DMACC class at Carroll or a DMACC online class. These requirements are not for vocational classes that include Building and Trades, Automotive, Electricity, CNA, Health Occupations or the Internship classes.

### **DMACC ACADEMIC CLASSES**

Students must have a **21 ACT** composite score OR have a **3.5** cumulative GPA.

Physics – taught at the Carroll DMACC campus every other year opposite Chemistry.

Chemistry – taught at the Carroll DMACC campus every other year opposite Physics.

Calculus – taught at the Carroll DMACC campus usually early in the morning.

Psychology – taught at Glidden-Ralston by the School Counselor.

DMACC ONLINE CLASSES (see list below) - classes will be added to schedule and will count as one of student's classes.

1. For any English, Math or Social Studies DMACC Online classes, students are required to have a 3.5 GPA or 21 ACT Composite score.
2. Juniors may register for one online course per semester. Seniors may register for two online courses per semester.
3. The textbook will be provided.
4. Students must find a teacher to be a go-to mentor for their online class before they may take the class.
5. If Glidden-Ralston offers these classes below, students must first take them at Glidden-Ralston then can take the classes online for electives where they will get high school and college credit.

### **DMACC VOCATIONAL CLASSES**

Industrial Maintenance

Building and Construction Automotive

CNA

Health Careers

Professional Development Internship

Ag Business, Glidden – taught by Ag instructor

Survey of Animal Science, Glidden – taught by Ag instructor

- Students must be in good academic standing (not in credit recovery), meet expected growth goals in 2 of the three Iowa assessment sub tests. If these requirements are not met students may go through a review process.

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### **AP ONLINE**

AP Online classes (see classes below) - classes will be added to schedule and will count as one of student's classes. These classes are usually taken through the TAG program.

- Must be proficient in Reading, Math and Science on the Iowa Assessments as stated above.
- Students must enroll in Online AP classes prior to June 30<sup>th</sup> of the year preceding the school year you are registering for.
- These are year long classes.
- Students must find a teacher to be a go-to, mentor for their online class before they may take the class.
- If Glidden-Ralston offers these classes below, students must first take them at Glidden-Ralston then can take the classes online for electives where they will get high school and college credit.
- Students pay to take the AP test that is required to take after the class is over in order to receive college credit. Students must score a 3, 4 or 5 on the AP test in order to receive college credit.

**Iowa Online classes include:**

- AP Calculus
  - AP Chemistry
  - AP English Language and Composition AP Physics B
  - AP Statistics
  - AP U.S. History
  - AP English Literature and Composition
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- PSEO classes are available - See Mrs. Rohrbeck if interested in PSEO classes.