

GLENWOOD COMMUNITY HIGH SCHOOL

Guidelines for Educational Planning

2009-2010



Preparing Future Leaders for Success

TABLE OF CONTENTS

General Information	4
Graduation Requirements	6
Transcripts	7
College Early Start Program	7
College Information	8
Scholarships	10
Glenwood Community High School Testing Program	11
Course Descriptions	
Agriculture Education	14
Art	15
Business/Computers	15
Family & Consumer Sciences	18
Foreign Language	19
Industrial Technology	20
Engineering	21
Language Arts	22
Mathematics	24
Music	26
Physical Education	27
Health	28
Resource Courses	28
Science	29
Social Studies	30
Transition Courses	31
Health Occupations	31
College Early Start Program Courses	32

Dear GCHS Student,

The world is changing rapidly. The decisions you make during high school will play an important role in your future. The selection of courses involves making several important decisions. GUIDELINES FOR EDUCATIONAL PLANNING can assist you in making decisions about the programs and activities in which you will be involved at Glenwood Community High School.

The process of making good decisions involves seeking advice from others. You are encouraged to consult with your parents, teachers, counselors, and administrators when deciding upon the program of studies that is best suited to your needs, interests, and future career. You have also explored career choices through interest surveys, various curricula, assessments, workshops, etc. Use this information as an extra tool to help with your important decisions.

The faculty and administration are eager to assist you in any way we can. It is our desire that you have an educationally productive and fulfilling high school experience.

We wish you every success and happiness during high school and in the years beyond.

Sincerely,

Kerry Newman
H.S. Principal

GENERAL INFORMATION

Glenwood Community High School
Glenwood, Iowa

PURPOSE OF THIS BOOKLET

The purpose of this booklet is to acquaint students and parents with the subject offerings of Glenwood Community High School and to provide information that will assist in the appropriate selection of subjects by students at the time of registration. It also includes information on entrance requirements, normal class load, credit value, requirements for graduation, progress reporting, and other topics important to students and parents when planning a program of high school studies. Counselors can play an important role in helping students select courses at the time of registration. If parents or students have problems they wish to discuss with the high school counselors, they are invited to arrange an appointment for such discussion by calling the counseling center at 527-4897.

SCHEDULING PROCEDURE

Each student receives a copy of this booklet that should be taken home for discussion and planning by parents and student. During their high school career, students have an opportunity to visit individually and in groups with a counselor, department representatives, and administrators.

The program of studies booklet is arranged according to the various academic areas where they meet the prerequisites or recommendations for that course. Please observe special notes indicated after various course listings.

PROCEDURES USED IN DETERMINING GRADE POINT AVERAGE

- **A = 4.0 B = 3.0 C = 2.0 D = 1.0 F = .00**
- Driver Education and pass-fail courses are not used in determining G.P.A.
- Honor Roll - 3.5 average or better
Merit Roll - 3.0 - 3.49 average

Calculus, Advanced Chemistry, AP English, and AP American History are weighted classes. These are the only weighted classes at GCHS.

That scale is: **A = 5.0 B = 4.0 C = 3.0 D = 2.0 F = .00**

GUIDELINES FOR COURSE SELECTION

As you read this booklet, consider the following:

- Select courses considering your specific needs. In most cases, you will have a well-rounded education if you include a variety of elective courses.
- Challenge yourself and evaluate the courses you should take in relation to your interests, abilities, and past performance.
- Study course descriptions so you will fully understand what the course is about and what will be expected of you as a student.
- Have your counselor and parents help plan your high school program.

NORMAL LOAD

9th – 11th Grade Students: Students (9-11) are required to carry seven (7) credits including P.E. one semester.

12th Grade Students: Seniors need to carry six credits. College courses, offered off site, may be arranged for seniors as part of their credits. All requests for arrangements, other than stated above, must involve the student, parent, counselor, and have the approval of the high school administration.

- A credit is awarded upon successful completion of one semester of a normally scheduled course. One credit will be awarded for a class that meets daily for one semester.
- Students must have **12 credits** to attain **sophomore status**. Students must have **24 credits** to attain **junior status**. Students must have **36 credits** to attain **senior status**.

Academic Eligibility:

Any student involved in the Glenwood Community High School activity program must meet the following academic requirements in order to be eligible for participation in extracurricular activities:

- 1) The participant must be a full-time student, carrying at least four solid subjects (worth 1 credit) each semester.
- 2) Each participant shall be passing all coursework for which credit is given and shall be making adequate progress toward graduation requirements at the end of each semester.
- 3) If at the end of any semester a student is given a failing grade in any course for which credit is awarded, he or she is ineligible to compete in the next occurring interscholastic athletic contests and competitions for 30 consecutive calendar days. If not passing all classes after 30 calendar days, in which a credit is given, they will remain ineligible for another week or as many as needed until passing all. Each Friday after the initial 30 days the A.D. or designee will check with students to see where they are academically. When passing all grades he/she will not be reviewed again until the next grading period. The ineligibility period applies to all extracurricular and non-athletic activities including state music and speech contests.
- 4) When an incomplete turns into a failing grade, the student will be ineligible for the next 30 consecutive calendar days.
- 5) A student with a disability who has an individualized education program shall not be denied eligibility on the basis of scholarship if the student is making adequate progress, as determined by school officials, towards the goals and objectives on the student's individualized education program.
- 6) The local superintendent of schools, with the approval of the local Board of Education, may give permission to a dropout student to participate in athletics upon return to school if the student is otherwise eligible under these rules.
- 7) Students who were academically ineligible at the end of the school year shall remain ineligible for the first 30 calendar days of their next sport.

GRADUATION REQUIREMENTS

Students must complete each grade level, grade one through twelve, and all the required course work as determined by the State Department of Education and the Glenwood Community School District Board of Education prior to graduation.

It shall be the responsibility of the superintendent to ensure that students complete grades one through twelve and that high school students complete **48 total credits** prior to graduation. The following credits will be required:

GRADUATION REQUIREMENTS

1. 48 total credits are required.
2. 20 documented hours of service learning

Seniors Class of 2010	Future Freshmen, Sophomores, & Juniors Class of 2011, 2012, & 2013
English - Seven credits required including:	English - Eight credits required including:
English 9	English 9
English 10	English 10
One writing credit	One writing credit
One literature credit	One literature credit
One communication credit	One communication credit
	One additional writing or literature class
Social Studies - Five credits required including:	Social Studies - Six credits required including:
Two American history credits	Two American history credits
Two world history credits (Western Civ.)	Two world history credits (Western Civ.)
One government credit	One government credit
	One additional social studies elective
Mathematics - Five credits required	Mathematics - Six credits required
Science - Four credits required including	Science - Six credits required including
Science 9	Science 9
	Biology
Business/Computer – One credit required including	Business/Computer - One credit required including
One computer credit or	One computer credit or
One business credit	One business credit

All students must enroll and participate in physical education one semester each year unless exempt. Students who do qualify for an exemption from physical education must fill their required number of classes with a class. There are no study halls.

A junior or a senior may be excused from the physical education requirement by a written request from parents because 1) the senior is seeking to enroll in a course that is not otherwise available 2) the senior is participating in a cooperative/work study program or 3) The student is involved in a competitive school sport.

A student in grades 9 and 10 may be excused from the physical education requirement by administrative permission only. Severe schedule conflicts and student health issues will be the primary consideration.

EARLY GRADUATION

- A student who plans to graduate early from Glenwood Community High School must have completed a preliminary application procedure on or before November 1 of his/her seventh semester.
- To be considered for early graduation, a student must have successfully completed forty-eight credits. The student's parents/guardians, the assigned counselor and administrator must endorse the petition for early graduation before the request is recognized and approved.

We urge parents and the student to analyze and discuss the possible advantages and disadvantages of early graduation and to arrive at a mutually acceptable plan before making a final decision. School personnel will gladly serve as a resource for responding to questions, providing information, and assisting in discussing your concerns; however, the ultimate responsibility for this educational decision must be assumed by the parents and the student.

TRANSCRIPTS

Official transcripts will be mailed by the counseling center to schools or agencies upon written request of the student or parent. Students requesting transcripts for themselves will receive an unofficial transcript.

Guidelines for credit earned in other institutions:

- Students who are presently enrolled at Glenwood Community High School must obtain prior approval from an administrator before beginning a course for credit from another academic institution. Courses that have not been previously approved will not be accepted as credit awarded from Glenwood Community High School.
- Students not enrolled at the Glenwood Community High School but who intend to transfer credit to the Glenwood Community High School must receive approval from an administrator prior to beginning the credit course.
- Credit transferred to Glenwood Community High School by new students from other approved senior high schools will normally be accepted.

COLLEGE EARLY START PROGRAM

Seniors who qualify may also have the opportunity to take certain classes at Iowa Western Community College through the College Early Start Program. They must be taking at least four classes at Glenwood Community High School, have a 3.5 GPA, and qualifying score on the ACT or IWCC's ASSET test. Some courses are available at the high school and other courses are negotiated annually between the school district and Iowa Western Community College. The district assumes tuition costs and students are responsible for the cost of textbooks, for furnishing their own transportation, and for reimbursing the district for tuition of any classes they drop or fail. (See page 34 for courses offered at the high school.) If a senior qualifies, a maximum of six Iowa Western credit hours will be allowed each semester.

COLLEGE INFORMATION

Regent Admission Index (RAI) Score

Students from Iowa high schools planning to begin their studies in fall 2009 or later must have a Regent Admission Index score of at least 245 and take the minimum number of required high school courses to qualify for **automatic** admission to *Iowa State University*, the *University of Northern Iowa*, and the College of Liberal Arts and Sciences at the *University of Iowa*. Students who achieve a score less than 245 will be considered for admission on an individual basis.

The index combines four facts that strongly predict success at regent universities: ACT or SAT test score, high school rank, high school cumulative grade-point average, and the number of completed high school core courses.

How to calculate your RAI:

$$\begin{aligned} &2 \times \text{ACT Composite Score (or the SAT Equivalent)} \\ &\quad + \\ &\quad 1 \times \text{High School Percentile Rank} \\ &\quad + \\ &\quad 20 \times \text{High School GPA} \\ &\quad + \\ &\quad 5 \times \text{Number of Core Courses Completed} \\ &\quad \quad \text{by High School Graduation} \\ &\quad = \\ &\quad \text{RAI Score} \end{aligned}$$

Which core courses count in the RAI?

Any college-prep course in English, mathematics, natural science, social studies, and foreign language can be used in calculating a student's RAI score. A semester course counts as 0.5. While additional courses in areas such as the fine arts and technology will help round out your high school experience and prepare you for future careers, they are not part of the core courses used to calculate your admission index.

High school counselors can help students and parents determine which courses qualify as "college-prep".

How to calculate your percentile rank?

To calculate your percentile rank, subtract your position in your high school class from the number of students in that class, divide the resulting number by the number of students in your class, and multiply by 100.

For additional information on the Regent Admission Index Calculation, go to the following website:

www2.state.ia.us/regents/rai

ADDITIONAL IOWA REGENT REQUIREMENTS

In addition to meeting the Regent Admission Index requirement, students must complete the minimum number of high school courses specified below for the institution to which they're applying.

Subject Area	Iowa State University	The University of Iowa	University of Northern Iowa
English/ Language Arts	Four years of English/Language Arts emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.	Four years, with an emphasis on the analysis and interpretation of literature, composition, and speech.	Four years, including one year of composition; also may include one year of speech, communication, or journalism.
Math	Three years, including one year each of algebra, geometry, and advanced algebra.	Three years, including two years of algebra and one year of geometry, for admission to the College of Liberal Arts and Sciences. Four years, including two years of algebra, one year of geometry, and one year of higher mathematics (trigonometry, analysis, or calculus), for admission to the College of Engineering.	Three years, including the equivalent of algebra, geometry, and advanced algebra.
Natural Science	Three years, including one year each from any two of the following: biology, chemistry, and physics.	Three years, including one year each from any two of the following: biology, chemistry, and physics for admission to the College of Liberal Arts and Sciences. Three years, including at least one year of chemistry and one year of physics, for admission to the College of Engineering.	Three years, including courses in general science, biology, chemistry, earth science, or physics; laboratory experience highly recommended.
Social Science	Two years for admission to the Colleges of Agriculture, Business, Design, Human Sciences, and Engineering. Three years for admission to the College of Liberal Arts and Sciences.	Three years, with U.S. history and world history recommended for admission to the College of Liberal Arts and Sciences. Two years, with U.S. history and world history recommended, for admission to the College of Engineering.	Three years, including courses in anthropology, economics, geography, government, history, psychology, or sociology.
Foreign Language	Two years of a single foreign language for admission to the College of Liberal Arts and Sciences and the College of Engineering. Foreign language courses are not required for admission to the Colleges of Agriculture, Business, Design, or Human Sciences.	Two years of a single foreign language.	Foreign language courses are not required for admission. However, two years of a foreign language in high school with a C- or above in the last term will meet the university graduation requirement.
Other Courses	Specific elective courses are not required for admission to Iowa State University.	Specific elective courses are not required for admission to The University of Iowa.	Two years of additional courses from the required subject areas, foreign languages, or fine arts.

SCHOLARSHIPS

Scholarships are financial awards made in recognition of superior ability and achievement. Financial need of the applicant is often an important factor. Many awards are made on the basis of high ratings on the ACT or SAT in addition to an excellent record in high school. Achievement in extra-curricular activities is also considered as colleges are looking for well-rounded individuals. Special activities such as music or drama may require auditions.

Students interested in scholarships should learn the requirements early in their high school careers. Many applications must be completed early in their senior year. The counseling center and the High School Webpage have a scholarship file listing scholarships that should be of importance to many Glenwood Community High School seniors.

Juniors are encouraged to take the PSAT/NMSQT (Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test). Taking this test is the first step necessary for juniors to enter the scholarship programs administered by the National Merit Scholarship Corporation. Whether selected as a semi-finalist or not, each participating student receives information in regard to his/her educational development. In addition to learning about strengths and weaknesses in the areas measured by the examination, the student gains valuable information about his/her probable chances for success in college. It is also an excellent warm-up test in which to gain experience in taking rigorous standardized tests prior to taking the college admissions tests--ACT (American College Test) and SAT (Scholastic Aptitude Test).

MAJOR FINANCIAL AID PROGRAMS

Federal Financial Aid Program: (Students must apply for these programs and in most cases must show "need" which means that projected family contributions will not meet projected college expenses.)

- Pell Grants: These grants make funds available to eligible students attending approved post-high school institutions. The amount varies each year. Grants do not have to be repaid. See your counselor for proper forms to file.
- Supplemental Educational Opportunity Grants (SEOG): For students with exceptional need. The amount varies each year.
- Stafford Loan (formerly the Guaranteed Student Loans Program-GSLP): Students can borrow directly from lenders to finance their education. The amount varies each year. In Iowa, Stafford loans are guaranteed by the state. The interest rate is 8% and a 5% origination fee. Payment begins six months after you graduate or leave school. A repayment plan is available for qualified enlisted personnel in the Iowa National Guard.
- Perkins Loans: Loan limitations vary each year. Repayment begins nine months after the student graduates or leaves school, with ten years to pay. Interest is 5% of the unpaid balance.
- Plus/SLS Loan Program: Parents may borrow the amount difference between cost of attendance and other financial aid per year per undergraduate dependent. The rate is variable depending on current market conditions with repayment of interest and principal to start in 60 days.
- College Work Study (CWS): Students with financial need may apply through their school financial aid officer for jobs funded by federal money.

IOWA FINANCIAL AID PROGRAMS

- Iowa Tuition Grants: This program is designed to give students the option of attending Iowa private colleges and universities. The grant amount varies each year. Students must enroll in an eligible school and file either the F.A.F. or F.F.S. after January 1 and before March 1. Students who submit forms after March will be considered only if funds are still available.
- Iowa Vocational-Technical Tuition Grant Program: A need-based program for Iowa residents enrolled in career education (voc-tech) courses at the public area schools. Grant amounts vary each year. Students must enroll in an eligible school and must file the F.A.F.S.A. after January 1 and before March 1. Students who submit forms after March 1 will be considered if funds are available.
- Students need to stay in contact with the counseling department to gather information on other grants and scholarships available to students.

GLENWOOD COMMUNITY HIGH SCHOOL TESTING PROGRAM

The voluntary testing program at Glenwood Community High School is offered to students to provide them with information about their skills, abilities, and interests. This information is a valuable tool, which can assist a student, the parents, and counselor in making educational and occupational plans for the future. The following is a summary of information on specific tests available throughout the present school year at Glenwood Community High School. Information on other pertinent tests is also included. An annual calendar is available at the high school.

- Choices

Place: Glenwood Community High School (free)

The CHOICES program is an interest inventory that is intended to assist students with career planning. Students take the inventory via computer, currently as part of a career investigations unit in their 9th grade year. However, students can access the CHOICES program at any time in high school through their counselor and/or the media specialist.

- ASVAB (Armed Services Vocational Aptitude Battery) for Sophomores, Juniors, and Seniors
<http://www.military.com/ASVAB>

Deadline for Registration

Place: Glenwood Community High School

Registration: GCHS Counseling Center (free)

The ASVAB is a must for any student considering future enlistment into the military. However, this exam may be taken by any student who simply would like information on their aptitude in the skill areas measured by this test. Taking the exam DOES NOT obligate students in any way. The ASVAB measures verbal, analytic, clerical, mechanical, and technical skills and is used by the Armed Services for recruiting and placement purposes.

- PLAN (Preliminary-American College Test plus additional aids for post-secondary planning) for Sophomores
<http://www.act.org/plan>

Deadline for Registration: October

Place: Glenwood Community High School

Registration: GCHS Counseling Center (fee)

The PLAN is available to be taken by sophomores. It is designed to encourage and enable students to get a head start on making plans for the future. PLAN includes tests in writing skills, mathematics, reading, and science reasoning. PLAN also contains an interest inventory, a set of questions about effective study methods and habits and items intended to assist students in post-secondary planning. Students taking this exam will also get valuable experience in taking college entrance tests such as the ACT or SAT.

- PSAT/NMSQT (Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test) for Juniors
<http://www.collegeboard.com/student/testing/psat/about.html>

Deadline for Registration: October

Place: Glenwood Community High School

Registration: GCHS Counseling Center (fee)

The PSAT is recommended for all high school juniors who are planning on going to college and are in the top 15 percent of their class. Juniors taking the test will be entered in the competition for scholarships awarded through the National Merit Scholarship Program. The test measures verbal and mathematical aptitudes, two abilities important in doing college work. Students taking this exam will also get valuable experience in taking college entrance exams such as the ACT or SAT.

- ACT (American College Testing Program) for Juniors & Seniors
<http://www.act.org>

October, December, February, April, June
Registration: Applications available in Counseling Center
Deadline for registration: Varies by test date (fee)

The ACT exam is recommended for college-bound juniors. This exam is required of all high school students applying to any state university in Iowa. Many private universities also require the ACT. The ACT measures ability in science, reasoning, English, math and reading. It also provides students with information on educational and occupational interests and is helpful in making future plans.

- SAT (Scholastic Aptitude Test) for Juniors and Seniors
<http://www.collegeboard.com>

Registration: Applications available in Counseling Center
Deadline for registration: Varies by test date (fee)

Many private universities in and out of Iowa and some state universities out of state require the SAT. Students who will be applying to universities that require the SAT should take this exam in the spring of their junior year or fall of their senior year. The test measures verbal ability and mathematical problem solving abilities.

- CLEP (College Level Examination) for Seniors
<http://www.collegeboard.com/student/testing/clep/about.html>

CLEP examinations are arranged through colleges, which use them for credit by examination, and sometimes for placement. Policy on use of CLEP exams varies with each university.

- Interest Inventories/Abilities Test (all grades)

Students desiring to participate in the testing opportunities on an individual basis should see their counselor to determine which tests might meet his/her specific needs.

COURSE DESCRIPTIONS

AGRICULTURAL EDUCATION

Introduction to Agricultural Science - One semester – One Credit

PREREQUISITE: Intro to Ag.

This course will cover an introduction to the agricultural industry focusing on agricultural terms, Ag biotechnology, career opportunities, and record keeping. Supervised Agricultural Experience (SAE) projects and record keeping are a main focus to this class. Along with that, students will have a look into the National FFA Organization and how they can get involved in the largest student run organization in the country. As a member of an Agricultural Education class, you have the opportunity to be one of over 450,000 young people who are members of the FFA.

Animal Science - One semester – One Credit

PREREQUISITE: Intro to Ag.

This class will introduce you to a wide variety of animal science areas within the agricultural industry. We will begin by exploring the aquaculture world and raising fish in our tank set up throughout the year. Other items to be learned are wildlife management, meat identification, small animal production, dairy foods, food science, large animal production, nutrition, digestion, and genetics.

Plant Science - One semester – One Credit

PREREQUISITE: Intro to Ag.

The important areas and skills to learn about are plant science, soil science, agronomy, entomology, weed identification, grassland management, environmental science, soil and water conservation, career and personal development skills and learning how to conduct a meeting using Parliamentary Procedure.

Horticulture – One Semester – One Credit

PREREQUISITES: Biology or Plant Science

Students will learn about plant science, plant propagation, landscaping and design, turf grass management and care, hydroponics, and vegetable production. Students will get "hands-on" skills that can be used in everyday life.

Ag Business Management - One semester – One Credit

This class will prepare you to go out into the world of work. You will investigate management responsibilities and agribusiness financial practices. The concept of entrepreneurship will be explored. Agricultural sales and business management will be underlying themes throughout this course. Areas of study also include Ag marketing; Ag economics, Ag law and finance, along with resume building and career preparation are a few steps to help you prepare for the world of work.

Advanced Agriculture I and II – One or Two semesters – One or Two Credits

PREREQUISITE: Grade 11 or 12 / Teacher Recommendation, Introduction to Ag, two of the other one semester courses.

For those that have a strong connection to the Agricultural Industry, this course will help expand on the concepts learned in other Agricultural Education courses. This course is designed for students who are serious about agricultural education and FFA. Helping develop presentations for underclassmen and elementary students to learn about Agriculture along with a few projects chosen by the students will make up the independent project portion of the class. Turf and landscape management, Animal Science, and Small engine work can be incorporated as a project along with other Agricultural related ideas that must be approved by the teacher. Animal Science, Entrepreneurship, and Ag Law are some advanced units discussed in this class.

ART

Fundamentals of Art – One Semester – One Credit

This class is for the beginning art student. Students will develop an understanding of the elements and principles of design. This basic understanding will be the foundation of learning for all art classes. Students will use a variety of media including pencil, charcoal, pastel, tempera, watercolor, India ink, marker, and colored pencils. Art history exemplars will be studied and art styles explored. Students will gain color usage skills, become familiar with various artists and art periods, and develop technical skills with a variety of media.

Visual Arts 2 – Two Semesters – Two Credits

PREREQUISITE: Students must have a grade of C or better in Fundamentals of Art.

Students will create original compositions using the elements and principles of design. They will further their knowledge in 2 and 3 dimensional media. This will include hand-building, wheel throwing, glazing, and firing techniques through open-ended problems that require individual problem solving. Materials will be recycled; however students wishing to take home finished projects in clay may be assessed a \$15 clay/glazing/firing fee.

Visual Arts 3 – Two Semesters – Two Credits

PREREQUISITE: Students must have a grade of B or better in Visual Arts II.

This class allows students to build on concepts learned in Visual Arts II to further explore 3-D art and media. Students will build on concepts learned in all other art classes for further exploration of media including painting, drawing, and 3-D form. Design and composition skills will be broadened. Students will learn technical development in two- and three-dimensional media and incorporate knowledge of elements and principles of design to create finished projects.

Studio Art – Two Semesters – Two Credits

PREREQUISITE: Students must have a grade of B or better in Visual Arts III.

This course is intended for students who are seriously interested in the practical experience of art. Individualized instruction will allow students to build on prior knowledge in order to refine and enhance their design skills. Students will create a body of work which demonstrates a variety of themes, media, and visual concepts. Students will also increase their ability to make critical judgments of their art as well as the art of others. In addition, this class is designed for students who have an interest in pursuing a career in the visual arts (e.g.: graphic design, fine artist, art educator). Students will study digital imaging, illustration, and graphic design. Independent study will then allow students to concentrate on a media of their interest and/or strength to create artwork demonstrating advanced skills. Ongoing review with the instructor in addition to self-critique will guide student work.

BUSINESS/COMPUTER

Computer Business Applications I – One Semester – One Credit

PREREQUISITE: Some keyboarding experience is needed but not necessarily the keyboarding class. Students should be proficient at least. A recommended rate of 25 - 30 wpm is required.

This course is designed for specific applications commonly found in the business world. Students will learn to create documents pertinent to today's business fields as they use Word, Excel, and Power Point in Microsoft Office to do word processing, spreadsheets, and to prepare presentations that import text and pictures. Students will also be introduced to proper Internet search techniques and will export into documents from the World Wide Web. Each student will develop proficiency in all of the above listed disciplines before they are allowed to advance to other computer classes.

Accounting I – One Semester – One Credit

PREREQUISITE: Grades 10-12 or approval of the teacher

Students will learn how to keep records for a service business as a sole proprietor and for a merchandising business as a partnership. They will learn to record financial information manually on the proper forms in an organized manner; learn basic accounting vocabulary; and understand the accounting cycle.

Accounting II – One Semester – One Credit

PREREQUISITE: Students must have a grade of B in Accounting I or approval of the teacher.

This class continues the skills developed in Accounting I. The course deals with financial statements, partnerships, and corporations. Students will learn how to prepare various financial statements for partnerships, adjust and close entries, and keep special journals. They will work with uncollectible accounts, plant assets and depreciation, notes and interest, accrued revenue and expenses, and financial statements, and end of period entries for a corporation. Students will be using automated accounting as well as doing manual tasks.

Keyboarding – One Semester – One Credit

PREREQUISITE: Open to all students with teacher recommendation.

With an ever-increasing use of the computer in today's society, the development of keyboarding skills is one of the most worthwhile things a student can do in school. This course will stress mastering the keyboard by the touch control method (not looking at the keyboard) with emphasis on building accuracy and speed. The student will apply these skills by producing letters, tabulation problems, reports, advancing their speed and accuracy, and creating other business documents.

Introduction To Business – One Semester – One Credit

PREREQUISITE: Grades 9-11

Students will learn what business is and how it affects all of us. Students will focus on the economic system—money, credit, and banks; the individual's role as a consumer, worker, and citizen; and the basics of marketing and starting a small business. All students shall compare daily lessons to businesses within the community and be able to relate the various actions each one takes to our daily classroom activities.

Marketing – One Semester – One Credit

PREREQUISITE: Grades 10-12

Marketing is the process of buying and selling goods and services. The students shall study aspects of marketing from production to advertising and all middlemen in between. In this class, students will learn the fundamental concepts of marketing and apply this knowledge to several projects. Students will focus on identification of a target market, personal selling skills, the designing and marketing of new products, and the evaluation of existing market strategies (such as subliminal advertising) and their effectiveness on the consumer.

Business Law – One Semester – One Credit

PREREQUISITE: Grades 10-12

Students will study laws that govern individuals and families, as well as business and commerce, looking at both large corporations and individuals – including themselves and their community. Study will focus on laws and their development, crimes, torts, contracts, the court system, product liability and contract laws as well as consumer rights. We shall look at the foundation of laws and their existence and discuss various interpretations of laws. We shall also deal with recent events in the news as they pertain to our subject matter.

Computer Business Applications I – One Semester – One Credit

PREREQUISITE: Some keyboarding experience is needed but not necessarily the keyboarding class. Students should be proficient at least; a recommended rate of 25 - 30 wpm.

This course is designed for specific applications commonly found in the business world. Students will learn to create

documents pertinent to today's business fields as they use Word, Excel, and Power Point in Microsoft Office to do word processing, spreadsheets, and to prepare presentations that import text and pictures. Students will also be introduced to proper Internet search techniques and will export into documents from the World Wide Web. Each student will develop proficiency in all of the above listed disciplines before they are allowed to advance to other computer classes.

Computer Data Bases – One Semester – One Credit

PREREQUISITE: Students must have a grade of C or better in Computer Business Applications I or permission from instructor.

This course is a continuation of Computer Business Applications I. Students enrolled in this course will learn the most important topics of Microsoft Access. Students will first be presented with an introduction to Microsoft Access. Next, they will learn how to create and maintain a database, then how to query a database. Students will also learn how to create forms and reports, enhance the table's design, and create custom reports. They will also learn how to integrate Access with the web and other software programs. Finally, if time permits, students will learn to automate tasks with macros, use and write Visual Basics for Applications Code, and manage and secure a database.

Computer Programming I – One Semester – One Credit

PREREQUISITES: Students must successfully complete Computer Business Applications I with a grade of C or better in AND successfully complete Pre-Algebra (or a higher math class) with a grade of C or better. Written permission from the instructor is required if any of the prerequisites are not met.

This course is an introduction of structured computer programming. The programming language used will depend on the availability of the development software and appropriate teaching materials. Computer Programming I provides the opportunity for students to gain experience in computer programming using a structured language with a visual development environment. The emphasis of the course is on how to structure and document computer programs, how to critically read problem descriptions for important information, and how to use different problem-solving techniques. The course advances from the creation of simple programs to the creation of programs that use advanced features and strengths of the language. The students will complete the course with the opportunity to create a simple game program.

Computer Programming II – One Semester – One Credit

PREREQUISITES: Students must successfully complete Computer Programming I. Written permission from the instructor is required if this prerequisite is not met.

This course is a continuation of Computer Programming I. Students build on their knowledge by studying topics such as arrays, structures, multimedia (color, sounds, & graphics), and classes. The students will create applications that use files for input and output, applications that search through and sort data, and applications that make use of the multiple document interface (MDI). If time permits, students will learn how to link their applications to external sources like databases and the internet.

HES Fundamentals Of Web Programming – One Semester – One Credit

PREREQUISITES: Students must successfully complete Computer Business Applications I with a grade of B or better. Students must be a Junior or Senior to take this course.

This course provides students with a strong understanding of Web design principles in the planning, building, publishing, and maintaining of a Web site. The course focuses on the complete Web development cycle from the conception of the idea of a site through the building and publishing of the site. Construction components for this course will focus on XHTML, DHTML, XML and JavaScript programming language. Design principles will also be discussed.

HES Fundamentals Of Web Design Software – One Semester – One Credit

PREREQUISITES: Students must successfully complete Computer Business Applications I with a grade of B or better. Students must be a Junior or Senior to take this course.

This course prepares students so they can create complete Web sites using popular Web Design Software. Students will learn the features of the Web Design Software by developing a single Web page. Then students will learn to

plan and develop a successful Web site while focusing on page organization, formatting through Cascading Style Sheets (CSS), and using shared site elements. The course will conclude with advanced topics such as dynamic Web pages, animations, rich media, and reusable assets. If time permits, students will learn how to add database functionality to their web sites.

HES PC Support I – One Semester – One Credit

PREREQUISITES: Students must successfully complete Computer Business Applications I with a grade of C or better. Students must be a Junior or Senior to take this course.

PC Support I is based upon Cisco’s IT Essentials I online curriculum. IT Essentials I PC Hardware and Software introduces students to information technology and data communications. This course is a hands-on, lab-oriented course that stresses laboratory safety and working effectively in a group environment. Students will learn how to build a computer and install and/or work with operating systems such as Windows XP, and Windows 2000, and Windows Vista. This course is an excellent introduction to information technology (IT) that includes an overview of IT, math for the digital age, intro to networking, PC maintenance, safety, and troubleshooting. This course also provides the foundation for students preparing to take the CompTIA’s A+ certification.

HES Excel Spreadsheet – One Semester – One Credit

PREREQUISITES: Students must have a grade of C or better in Computer Business Applications I. Students must be a Junior or Senior to take this course.

As a student in this course, you will learn the most important topics of Microsoft Excel 2007. You will first be presented with an overview of Microsoft Office 2007, followed by an introduction to Microsoft Excel 2007. You will learn to use Excel to manage finances, as well as to work with formulas, charts and graphics, and to develop a professional worksheet. You will then learn to work with Excel lists, and multiple worksheets and workbooks. You will learn to use Excel’s editing and Web tools, and learn to develop an Excel application. You will work with logical functions and integrate Excel with other Windows Programs. You will learn about data tables and scenario management, how to use Solver to help with problems, and how to import data into Excel. The student must purchase their own textbook for this course.

Digital Design - One Semester – One Credit

PREREQUISITES: Students must have a grade of C or better in Computer Business Applications I or instructor permission.

Students study ethical issues in the digital age. Topics like copyright, plagiarism, file-sharing, Creative Commons, and the Digital Millennium Copyright Act will be covered. Students will also be introduced to the basics of taking and editing digital photographs, recording and editing digital audio, recording and editing digital video, and the creation of Flip-Book animations. The “packaging” of the digital information into different formats will also be covered. After completing the course, students will also be able to create, edit and use still images, video and audio in electronic projects for other classes.

FAMILY AND CONSUMER SCIENCES

Fashion Strategies – One Semester – One Credit – Fall

This course prepares students for careers in fashion merchandising and improves their skills as consumers of clothing and textiles. Students will learn about the meaning of clothes, design elements and principles, clothing language, historic costume, textiles, fashion design, and the production of a fashion show. A sewing construction project will also be completed.

Interior Design & Housing – One Semester – One Credit – Spring

This course will cover housing styles, kitchen designs, design elements and principles, and the selection and arrangement of furnishings in a home. Students will also complete a housing simulation project.

Food Choices & Nutrition – One Semester – One Credit – Fall

This course will cover nutrition, selection, and preparation of foods in each of the food pyramid groups. Food science is included as students learn the reasons behind food preparation and cook one to two times per week.

Global Foods - One Semester – One Credit – Spring

PREREQUISITE: Food Choices & Nutrition – Minimum of C grade

In this course, students will learn about and prepare desserts, American regional foods, foreign foods, and outdoor cooking. Students will prepare an individual lab and cook two to three times a week.

Culinary Arts – One Semester – One Credit – Spring

PREREQUISITE: Minimum of C grade in food choices & nutrition, global foods, and an application for class

Students will run a restaurant as they apply quantity food preparation skills and sanitation principles. Students will assume cooking, service, and management opportunities as they study food service careers through the class restaurant.

Life & Relationships – One Semester - One Credit – Fall

In this course, students will learn about self-understanding and self concept, maturity, relationships with family and peers, sexual harassment, sexually transmitted diseases, marriage preparation and problems, and the decision to parent. Topics are covered in a discussion setting.

HES Child Development & Parenting – One Semester – One Credit – Spring

PREREQUISITE: Grades 11-12

This course is a college-level course offered through the Iowa Western Community College Honors Early Start program. Students will receive three hours of college credit if they complete the semester with a grade of C or better. This course prepares students to work with children in careers and/or to become parents in the future. Students serve as "teachers" at preschools twice a week for ten weeks. Areas of study include prenatal care, pregnancy, birth defects, and the development of infants, toddlers, and preschoolers.

FOREIGN LANGUAGE

Spanish I – Two Semesters – Two Credits

PREREQUISITE: C or above in previous English course and/or approval of instructor

Spanish I introduces the student to learning a foreign language. The student will begin to understand, speak, read, and write Spanish, and will also gain some insight into Hispanic cultures. Much of the time in the classroom is spent learning to communicate in Spanish through stories. Students will learn the sound system of the Spanish language, high-frequency vocabulary words, the present tense of regular and irregular verbs, formation of original sentences in Spanish expressed orally and in writing, and communication in spoken and written Spanish at an elementary level. They should know the location of the Spanish-speaking countries, and some of their customs.

Spanish II – Two Semesters – Two Credits

PREREQUISITE: Successful completion (C or above) of Spanish I and/or approval of instructor

Spanish II students will increase proficiency in understanding, speaking, reading, and writing in Spanish. There are more opportunities for spontaneous self-expression. Growth in vocabulary and sentence structure continues. Students will be able to use the Spanish they are learning to talk about various topics in present, past, and future tenses, including clothing, food, sports, furniture, travel, and sickness and injuries.

Spanish III – Two Semesters – Two Credits

PREREQUISITE: Successful completion of Spanish II and/or approval of instructor

In Spanish III, students will continue developing proficiency in understanding spoken Spanish, and in speaking, reading, and writing Spanish. The methods in Spanish I and II are continued with more emphasis on conversation and ability to communicate orally in Spanish. Students continue to develop their ability to express themselves in writing. At this point, the student has acquired the tools to express ideas in Spanish, but it will take a great deal more practice before fluency is acquired.

Spanish IV – Two Semesters – Two Credits

PREREQUISITE: Successful completion of Spanish III and/or approval of instructor

Upon successful completion of both semesters of this course, students should be able to communicate in elementary fashion in the Spanish language: follow an advanced conversation, read written narratives from authentic sources, write a short paragraph, and speak in complex sentences. They should be able to use basic elements of grammar in complete spoken and written sentences. They should be able to read and comprehend short chapter books in Spanish.

INDUSTRIAL TECHNOLOGY

Introduction to Technology – One Semester – One Credit

Students enrolled in Introduction to Technology will explore basic mechanical drafting and the safe operation of hand and power woodworking tools, and they will complete a small woods project. The class is a preparation for other technology classes. Required materials: safety glasses. Students will be required to purchase materials for their projects.

Woodworking I – One Semester – One Credit

PREREQUISITE: Introduction to Technology, grades 10-12

Woodworking 1 is an introductory hands-on course where the students will build three small projects. They will study and gain basic experience in the following areas: planning and designing, selecting materials, measuring, layout, planning, sawing, wood joints, adhesives and fasteners, stains and finishes. The students will have an understanding of the safe operation of hand and power tools used in the woods shop. The average cost of materials for the projects may be \$25 to \$75.

Woodworking II – One Semester – One Credit

PREREQUISITE: Woodworking I, grades 10-12

Woodworking 2 is an advanced hands-on course where the student will build a major unit of household furniture. They will study and gain experience in the following areas: planning and designing, selecting materials, measuring, layout, planning, sawing, wood joints, adhesives and fasteners, stains and finishes. An emphasis will be placed on basic cabinet design and construction. The students will have an understanding of the safe operation of power tools used in the woods shop. The average cost of materials for the project may be \$25 to \$200.

Intro to Welding – One Semester – One Credit

PREREQUISITE: Grades 10-12 & Intro to Tech.

Intro to Welding is an introductory hands-on course in which the students will develop skills in welding. They will study and gain experience and skills in the following areas: arc, oxyfuel, MIG, and sweat welding. An emphasis will be placed on welding shop safety as well as equipment maintenance. Students will need to supply safe clothing for the welding shop.

Principles Of Technology I – Two Semesters – Two Credits

PREREQUISITE: Students must have a grade of C or better in Algebra I.

This is an applied science course. Students will perform lab experiments to demonstrate knowledge in six areas of physics: force, work, rate, resistance, energy, and power. Knowledge of each area will be demonstrated using mechanical, fluid, electrical, and thermal principles. This is a "hands-on" learning approach. Equipment is similar to that which is used in the technical industry. Required materials: 3-ring 1 1/2" hard cover notebook, calculator

Principles Of Technology II – Two Semesters – Two Credits

PREREQUISITE: Students must have a grade of C or better in Principles of Technology I, Algebra II or instructor permission.

This is an extension of Principles of Technology I. Lab experiments and the "hands-on" approach will continue in this course. Areas of study are momentum, vibrations & waves, energy converters, transducers, force transformers, time constants, hydraulic/pneumatic simulators, fiber optics, lasers, fuel cell technology, CNC milling, and robotic technology. Use of various pieces of technical equipment is the focus of this course. Required materials: 3-ring 1 1/2" hard cover notebook, calculator.

ENGINEERING

Introduction to Engineering Design – Two Semesters – Two Credits

Introduction to Engineering Design (IED) is a high school level course that is appropriate for 9th or 10th grade students who are interested in design and engineering. The major focus of the IED course is to expose students to design process, engineering standards, research and analysis, technical documentation, global and human impacts, communication methods, and teamwork. IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB-learning challenges students to continually hone their interpersonal skills, creative abilities and understanding of the design process. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.

Principles of Engineering – Two Semesters – Two Credits

PREREQUISITE: Students must have a grade of C or better in Algebra I and have taken Intro to Engineering Design or instructor approval

This introductory course explores the wide variety of careers in engineering and technology and covers various technology systems and manufacturing processes. Using activities, projects, and problems, students learn first hand how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. The course also addresses concerns about social and political consequences of technological change.

Civil Engineering and Architecture – Two Semesters – Two Credits

PREREQUISITE: Intro to Engineering Design and Principles of Engineering or instructor approval

The major focus of the course is a long-term project that involves the development of a local property site. As you learn about various aspects of civil engineering and architecture, you will apply what you learn to the design and development of this property. There is flexibility for you and your teacher in developing the property as a simulation or as a real-world experience that civil engineers and architects experience when developing property.

LANGUAGE ARTS

Reader's Workshop - Two Semesters – Two Credits

Reader's Workshop is a two-semester course for selected freshman which will immerse students in reading. Designed to improve fluency, comprehension, and vocabulary; this course encourages students to select and read books at their interest and reading levels. In addition to independent reading, students will participate in entire class, small group, and paired discussions of teacher directed readings. Students will test often to gauge improvement and will participate in student directed book talks at the completion of every book read.

English 9 – Two Semesters – Two Credits

English 9 is a required two-semester course for freshmen. Throughout the year, students will review the principles and mechanics of effective writing, and they will begin to incorporate these principles into a variety of different writing situations including: expository, persuasive, and narrative essays; and summarizations. The course will include an introduction to literary analysis through the study of short stories, novels, poems, a play, and an epic.

Honors English 9 – Two Semesters – Two Credits

PREREQUISITE: Instructor permission granted on a combination of the following criteria: language arts and reading grades in middle school; I.T.B.S. scores in middle school; middle school teacher recommendation; conference with the high school guidance counselor.

Honors English 9 is a course designed for the college bound student. Some aspects of Honors English 9 are the same as regular English 9. Students study some of the same works of literature and many of the same writing skills. However, there is more emphasis on writing throughout the year, assignments are more complex, and more of the tests are essay based.

Communications – One Semester – One Credit

Communications is a speech course that emphasizes communication with self, communication with others, and speech writing and delivery techniques. This course explores verbal and nonverbal communication, listening techniques, interpersonal and intrapersonal communications, and expository writing skills. The learning process will include discussion, group work, and “hands on” activities.

English 10 – Two Semesters – Two Credits

English 10 is a required course for sophomores. Students will be reviewing and expanding on principles and mechanics of effective writing and incorporating these into a variety of different writing situations including: literary analyses, problem/solution essays, summarizations, and research reports. Students will also be expanding their literary analysis skills by reading and discussing a variety of short stories, novels, plays, and poems.

Honors English 10 – Two Semesters – Two Credits

Honors English 10 is a two semester course for selected sophomores, in which they review and expand upon principles and mechanics of effective writing. They also then incorporate these into a variety of different writing situations including: literary analyses, problem/solution essays, summaries, and research reports. Students will also expand their literary analysis skills by reading and discussing a variety of short stories, novels, plays, and poems including *Of Mice and Men*, *Lord of the Flies*, *My Antonia*, *The Pearl*, *The Great Gatsby*, and *Animal Farm*. Students will also choose a novel with literary merit as well as a banned book for independent study and novel project.

Writing I – One Semester – One Credit

PREREQUISITE: Grades 11-12 or English 10

Writing I is a one semester transitional course between English 10 and Advanced Writing. The course re-teaches and reinforces those grammar and compositional skills previously learned to help students make the transition to a college prep writing class if they so choose. This course is recommended for students not planning to attend a four year college or university, students who need additional work to prepare for college prep level work, or for students who are not sure of their future education plans. The paragraph is the chief means of demonstrated competence leading to the essay. The course also includes a reading/writing vocabulary component.

HES Composition I – One Semester – One Credit

PREREQUISITE: Grades 11-12

Composition I/Honors Early Start is a one semester writing course beyond the high school level taken for three semester hours of college transferable credit. Students will review and practice the rhetorical and grammatical skills necessary to write clear, concise, and coherent expository essays, the kind of essay expected from students at the college level.

HES Composition II - One Semester – One Credit

PREREQUISITE: Grades 11-12

Composition II/Honors Early Start is a literature based one semester course taken for three hours of college transferable credit. This course is an extension of Composition I and culminates in a literature based research paper. Students will also write seven shorter papers and take two tests. Students will study, discuss, analyze, and write about the elements of plot, setting, character, symbol, style, point of view, and theme and how authors use these elements to create literature. Students will also analyze their own relationship to literature.

American Literature – One Semester – One Credit

PREREQUISITE: Grades 11-12

American Literature follows the social and political development of our country as reflected in its novels, short stories, poetry, and essays. The parallel of history and literature is studied, as students are encouraged to expand their thinking and examine their own opinions and values.

World Literature – One Semester – One Credit

PREREQUISITE: Grade 11-12

Students are introduced to the all-time great authors and their works. Selections will include literature of various cultures from ancient civilizations, to Shakespeare, to modern times. Emphasis is placed on the analysis of literature through critical reading and thought.

Honors World Literature – One Semester – One Credit

PREREQUISITE: Grade 11; previous placement in honors English courses.

Honors World Literature is an intensified semester of the World Literature class.

Advanced Placement Literature and Composition - Two Semesters – Two Credits

PREREQUISITE: Grade 12, Honors English 10, Honors World Literature, Honors Early Start Composition I, and enroll in HES Composition II during the second semester.

A.P. English is a college level course that analyzes literature from a critical point of view. Students will study a variety of novels, poetry, prose, and plays. Extensive work in college writing and research will also be required. By successfully demonstrating achievement on a national A.P. exam, student may earn college credit.

Introduction to Journalism – One Semester – One Credit

PREREQUISITE: Grades 9-10. Students will be selected for this course based on recommendations from teachers and counselors.

Journalism is the study of the art of reporting and the profession of journalists. Beginning journalism students receive instruction in all areas of journalism needed to pursue Staff positions of either yearbook (Rampages) or newspaper (The Rambler/Aries). Among the areas covered are: interviewing, beat reporting, feature writing, news stories, layout design, advertising, journalistic ethics, professional standards. This course includes extensive reading of models of excellent journalistic techniques and evaluates and analyzes journalistic writing through discussions and critiques.

Journalism/Newspaper – Two Semesters – Two Credits

PREREQUISITE: Open to all students. Students will be selected for this course based on recommendations from teachers and counselors.

The main emphases in this class are to produce a monthly school newspaper page, The Aries, in the local community newspaper, The Opinion Tribune, and to produce a monthly school newspaper, The Rambler. Students taking this course will be responsible for planning, writing, designing, and marketing both publications. Student will also be introduced to various computer programs for computer-aided publishing.

Yearbook – Two Semesters – Two Credits

PREREQUISITE: open to all students. Students will be selected for this course based on recommendations from teachers and counselors.

During the course of the year, students will create the yearbook while using writing, editing, interviewing, and design skills.

MATHEMATICS

Problem Solving – Two Semesters – Two Credits

This course is designed to help students understand problem solving techniques. The class will be geared towards real life math and story problems.

General Math – Two Semesters – Two Credits

General Math is structured for students that have had difficulty with math throughout their school years. It is a slow paced and comprehensive study of the minimum competencies that are needed for everyday use. Students will be able to apply math and problem-solving methods to the process of earning income, banking, paying taxes, and budgeting money.

Applied Algebra I – Two Semesters – Two Credits

PREREQUISITES: This course is typically a freshman-leveled course. Students will be identified using a variety of assessments and recommended by their 8th grade teachers. Exceptions must be approved by the Applied Algebra I instructor.

This course is part one of a two year course that covers ½ the course level Algebra benchmarks. Students in this course will study a variety of concepts including those related to number and operations as well as algebraic concepts. This course will feature a variety of hands-on techniques, technology integration, and small group instruction. Students will spend time applying mathematical concepts to real life situations. Students successfully completing this course may go to Algebra I or Applied Algebra II.

Applied Algebra II – Two Semesters – Two Credits

PREREQUISITES: Successful completion of Applied Algebra I; exceptions must be approved by the Applied Algebra I instructor.

This course is part two of a two year course that covers half of the course level Algebra benchmarks. Students in this course will continue study of concepts related to number and operation, algebra, and geometry. This course will feature a variety of hands-on techniques, technology integration, and small group instruction. Students will spend time applying mathematical concepts to real life situations. Students who successfully complete Applied Algebra I and Applied Algebra II have completed the equivalent of Algebra I and may proceed to geometry.

Pre-Algebra – Two Semesters – Two Credits

This is designed to be an introductory course in algebra and to accommodate the wide range of abilities of students. It is designed to prepare students for their first year in Algebra I. By the end of Pre-Algebra, students will be able to operate with integers by knowing the order of operations and applying them correctly. Students will also be able to select and apply formulas to solve some geometric and algebraic equations and inequalities.

Algebra I – Two Semesters – Two Credits

PREREQUISITES: Students must have a grade of C or better in Pre-Algebra and/or approval of instructor.

Algebra I is designed to be an introductory course and to accommodate the wide range of abilities of students in the first year of algebra. It will present the principles of algebra and lead into advancing areas of math such as geometry and trigonometry. Students will learn to work with real numbers in solving equations and inequalities and systems of equations, factoring polynomials and quadratics, and graphing.

Geometry – Two Semesters – Two Credits

PREREQUISITES: Students must have successfully completed Algebra I or two years of Applied Algebra and/or approval of instructor.

Geometry is a unique experience for math students. Along with further developing the algebra skills introduced in Algebra I, it will introduce geometric shapes and logical reasoning. The class stresses proofs and logic that may be used in all facets of life, not only mathematics. Students will understand the basic terms and symbols of geometry, area, perimeter, and volume. They will use concepts of congruence and similarity to compare lengths, areas, and volume. Along with understanding angle, line, and circle relationships, they will apply right triangles and trigonometry. They will arrive at valid conclusions using logic and reasoning and understand the various types of symmetry, transformations, and triangle relationships.

Algebra II – Two Semesters – Two Credits

PREREQUISITES: Students must have successfully completed Geometry or approval of instructor

This course includes a review of Algebra I concepts and skills and takes students deeper into the realm of algebra. It is designed to accommodate the wide range of abilities and interests of the students enrolled. Students will be able to solve, graph, and analyze linear, nonlinear, and systems of equations and inequalities by various methods. They will understand and apply functions and matrices, and be able to perform operations and solve equations using complex numbers and radicals.

Probability And Statistics – One Semester – One Credit

PREREQUISITES: Students have successfully completed Algebra I or two years of Applied Algebra and Geometry and/or approval of instructor.

A basic knowledge of statistics has become more essential. This course will provide the student with an introduction to probability and statistics, with examples of applications in sociology, business, ecology, economics, education, medicine, psychology, and mathematics. The student will be able to discuss the meaning of statistics, give a description of sample data, use numerical methods for analyzing data, determine probabilities, and understand the rules of probability.

Trigonometry/Pre-Calculus – Two Semesters – Two Credits

PREREQUISITES: Students must have a grade of C or better in Algebra II and successful completion of Geometry and/or approval of instructor.

First semester trigonometry introduces fundamental ideas for further study in technical fields and the study of calculus. It includes basic number theory, use of functions, trigonometry, and conic sections.

Second semester pre-calculus will begin with a review of systems of equations and move to the basic ideas of limits and their applications with the use of the derivative and the integral. It will also include the use of exponential and logarithmic functions. This semester will include a project in problem solving using the ideas of the derivative. In trig, the student will acquire a working knowledge of the six trig functions and how to manipulate the basic functions using the amplitude, period, and phase shift. The student will be able to prove and manipulate trig identities and have basic knowledge of the conic sections and be able to identify their equations. In pre-calc, the student will be able to solve systems of equations using graphing, elimination, and substitution. The student will be able to use the product, quotient, and chain rules in finding the derivative and how they are used in simple applications. The student will also use the basic techniques in finding and using basic integration to find areas and volumes.

Calculus – Two Semesters – Two Credits

PREREQUISITES: Students must have a grade of C or better in Trig/Pre-Calculus and/or approval of instructor.

The calculus course is an applied course with application in the fields of economics, physics, business, and behavioral sciences. The first semester focuses on differential calculus with the second semester concentrating on integral calculus. Both semesters will include many applications in various fields with the first semester including a weeklong project using the skills of differentiation to solve a real world problem. The student will be able to apply the product, quotient, and chain rules to solve real world situations using all types of functions including exponential and logarithmic functions. The student will be able to apply the techniques of partial derivatives and integration to several variables and trig problems and to solve problems using constraints.

MUSIC

Band – Two Semesters – Two Credits

Fees: \$12.00 for uniform cleaning; \$50.00 - \$80.00 for concert uniform; \$25 per quarter to defray the cost of repairs for students using school owned instruments; \$12.50 per quarter for percussionists.

PREREQUISITE: Students should have a background in instrumental music, having played a wind or percussion instrument.

Instrumental music is divided into Concert Band, Marching Band, Jazz Band, Pep Band, and Solos and Ensembles. The year begins with Marching Band, which performs at all home football games, Pep Rallies, IHSMA State Marching Contest, the Homecoming Parade, and one or two area homecoming parades. A Flag Corps is selected from the membership of the band, as is the Student Command Corp

After Marching Band, we begin Concert Band. Students who were in the Flag and Command Corps return to their regular instruments. Seating in band will be determined through an audition for placement in each section. Performances include the Christmas Concert, the March "Music In Our Schools Month" Concert, IHSMA Large Group Contest, the Spring Parade of Bands Concert, and every fourth year, a performance at a National Band Festival out of state.

Participation in band also presents the opportunity to participate in the following: All State Music Festival, SWIBA Concert and Marching Honor Bands, Solo and Ensemble Contests, ISU Cyclone Honor Band, NWMSU Four State Honor Band, Jazz Band, and Pep Band.

Students will increase technical skills on their instrument, as well as extend their musical range. Students will experience a variety of literature and styles from different musical periods. Self-expression will be encouraged through performance, and students will become aware of the importance of music in their cultural development. Through evaluation by the band director, progress will be monitored and suggestions made for improvement.

Freshmen Choir – Two Semesters – Two Credits

Robe Cleaning Fee: \$10.00

This class is open to all freshmen that show a basic ability and demonstrate a desire to sing. Three concerts are performed during the year, as well as large group, solo and ensemble contests at the state level. Letter grades are given on the basis of attitude, participation, performance, cooperation, musical growth, and attendance at required voice lessons and concerts. A show choir will be offered to students that are interested. Students will be able to demonstrate proper singing posture, breathing, vowel formation, musical interpretation, music theory, and other choral basics as well as the idea and discipline to be part of a group that works as one unit.

Mixed Choir – Two Semesters – Two Credits – Robe Cleaning Fee \$10.00

PREREQUISITE: Grades 10-12; selection based on desire to sing and positive attitude and effort, as reflected in teacher recommendations

Robe Cleaning Fee: \$10.00

Three concerts are performed during the year, as well as large group and solo/ensemble contests at the state level. Letter grades are given on the basis of attitude, effort, musical growth, cooperation, as well as voice tests and attendance at required events. Students will demonstrate proper singing posture, breathing, vowel formation, musical interpretation, and other choral basics as well as the discipline to be part of a group that works as one unit.

Concert Choir – Two Semesters – Two Credits – Robe Cleaning Fee \$10.00

PREREQUISITE: Successful audition; this group is chosen by the director in the spring for the following school year. Tone quality, intonation, sight reading skills, interpretation, and diction are all important factors.

Robe Cleaning Fee: \$10.00

This class is an auditioned group selected from students in grades 10-12 who demonstrate advanced levels of musical ability. This class will meet five days a week with three to four concerts a year. Advanced choral literature, some at the collegiate level will be used. This group will also consist of the varsity show choir. Both the concert and show choirs will compete at state contest and civic events. A jazz choir will be offered to select students. Letter grades are given on the basis of attitude, effort, cooperation, musical growth, as well as voice tests, and attendance at required events. Students will demonstrate proper singing posture, breathing, vowel formation, musical interpretation, and other choral basics as well as the discipline to be part of a group that works as one unit.

PHYSICAL EDUCATION

Physical Education – One Semester – One Credit

In physical education class, students will have the opportunity to participate in team and individual activities and learn the rules and history of various sports. Students will gain activity skills, teamwork, sportsmanship, and awareness of their own fitness. Also, the students will become aware of a variety of workout styles, develop a positive attitude towards physical fitness, and experience personal success.

Weight Training – One Semester – One Credit

PREREQUISITES: Grades 9-12 with involvement in high school athletics or approval of instructor

This is a high intensity weight training class to enhance athletic performance. The class meets daily and emphasizes cardiovascular fitness, flexibility, strength development, speed and quickness, and mental attitude as they relate to sports training.

HEALTH

Health I – One Semester – One Credit

Students are required to learn about selected topics that include decision making, goal setting, personality, nutrition, physical fitness, mental and emotional health, diseases, first aid, and safety. Daily assignments, class participation, special projects, reports, and unit tests determine grading for each unit. The student will gain knowledge about a wide variety of health topics and learn how to make healthy choices.

RESOURCE COURSES

Language Arts 1 – Two Semesters – Two Credits

Students will increase their reading levels, vocabulary, and comprehension as they read short stories and novels. Students will engage in learning word meanings through context. Students will study grammar, usage, and punctuation and will demonstrate that they can incorporate these into their own writing.

Language Arts 2 – Two Semesters – Two Credits

Students will continue increasing reading levels, vocabulary, and comprehension as they read short stories and novels. They will continue to improve their use of grammar, usage, and punctuation as they work on organization and development of ideas in their own writing.

Language Arts 3 – One Semester – One Credit

Resource American Literature follows the development of our country as reflected in its novels, short stories and essays. The parallel of history and literature is studied, as students are encouraged to expand their thinking and examine their own opinions and values.

Language Arts 4 – Two Semesters – Two Credits

Students write assignments based on their own readings as they review and practice skills needed for clear writing, including development of ideas with specific details, organization, clarity of diction, grammar, usage, and punctuation.

Problem Solving – Two Semesters – Two Credits

This course is designed to help students understand problem solving techniques. The class will be geared towards real life math and story problems.

Health Science I – Two Semesters – Two Credits

Students will learn about selected topics that include decision making, goal setting, personality, nutrition, human anatomy, body systems, drug abuse, disease and other current health topics. Daily assignments, class participation, group projects and test scores determine grading for each unit. The student will gain knowledge about a wide variety of health topics and learn how to make healthy life choices.

Health Science II – Two Semesters – Two Credits

This course covers advanced topics that include decision making, goal setting, personality, nutrition, human anatomy, body systems, drug abuse, disease and other current health topics.

Life Skills – One or Two Semesters – One or Two Credits

This is an introductory comprehensive course that covers all areas of family and consumer sciences. Topics covered are clothing selection and construction, consumer education, foods and nutrition, housing, relationships, and child development.

Life Skills II – One or Two Semesters – One or Two Credits

This course is designed for seniors to work on vocational exploration, disability issues, applications, resumes, interview processes, and job keeping skills.

Study Skills – One Semester – One Credit

This class will help students master study skills and strategies in many subject areas. This class is an important step in transforming dependent learners into independent learners and is important for success in many subject areas. This class also includes social skills and character education.

Study Skills II – One Semester – One Credit

This class will cover advanced study skills and strategies.

Transition Skills – Two Semesters – Two Credits

This course is designed for seniors to work on job searches, vocational exploration, disability issues, applications, resumes, interview processes, and job keeping skills.

SCIENCE

General Science – Two Semesters – Two Credits

Environment, Physics, Biotechnology, Astronomy, and Chemistry are the key areas in which the students will engage in exploring and investigating during this course. The program encourages students' independence and increases students' successes. Laboratory exercises are used to challenge the students and provide the opportunity for them to explore the topics on their own. The program shows how technology is at work in their lives, past, present, and future.

Biology – Two Semesters – Two Credits

PREREQUISITE: Two credits of Science 9 or equivalent course or instructor's permission.

Biology is the study of life and life processes. Topics include biochemistry, cell structures and their functions, homeostasis, respiration, photosynthesis, gene expression, cell division, genetics, microbiology, infectious disease, taxonomy, botany, and mammalogy. The impact of these topics on the human condition will be stressed.

Human Physiology – Two Semesters – Two Credits

*PREREQUISITES: Two credits of Biology with a grade of C or better or instructor approval.
The course is designed for students who wish to major in the health sciences after high school.*

Human Physiology is designed to give students a working knowledge to the human body. It includes a detailed study of the tissues and organs of the following systems: skeletal, muscular, nervous, cardiovascular, lymphatic, respiratory, digestive, excretory, endocrine, and integumentary. Lectures, class discussion, models, demonstrations, labs, and dissections are used to help students gain increased knowledge and understanding of these human structures and how they function.

Chemistry – Two Semesters – Two Credits

*PREREQUISITES: Students must have a C or better in Algebra I or instructor approval.
Required Materials: 3 ring binder and calculator.*

Chemistry is the study of the changes that occur in the Universe. Atomic and molecular structures, formula and equation writing, mathematical calculations, causes of change, and why change stops occurring will be topics of study. The course is theoretical in nature with the intent of preparing students for post-high school studies. Emphasis on measurement, generalization, and theory will be the basis of significant laboratory activity. Grading is based upon tests, daily work, and laboratory reports.

Advanced Chemistry – Two Semesters – Two Credits

*PREREQUISITES: Students must have a B- or better in Chemistry, and have passed Algebra II.
Required Materials: 3 ring binder and calculator.*

Advanced chemistry assumes a working knowledge of fundamental chemistry concepts. The goal of the course is to prepare students for work in science and technology fields of college. Emphasis will be placed on giving students deeper knowledge in areas that they have already studied and expanding into subjects not available in first year chemistry. Quantitative work will be emphasized over qualitative descriptions. Grading is based upon tests, daily work, and laboratory activities. Students will be expected to develop skills that are self-directed and inductive.

Physics – Two Semesters – Two Credits

PREREQUISITES: The course is designed to aide students planning to attend college. A strong interest in science and mathematics is desirable but physics is useful to many disciplines not generally associated with science such as law or the arts. Geometry and trigonometry skills are helpful in the study of physics.
Required Materials: 3 ring binder and calculator.

Physics is the study of causes and effects of motion. Newtonian mechanics, electromagnetism, light, sound, quantum mechanics, and relativity are among topics covered. Major emphases on data analysis and theory are an integral part of these difficult subjects. Grading will be based upon tests, problem solving, and laboratory activities with electronic data acquisition a strong component of the course.

SOCIAL STUDIES

American History – Two Semesters – Two Credits

This required 9th grade course surveys the growth and development of the United States from the Civil War to present day. Emphasis will be placed on the Civil War, Reconstruction, and the transition from a rural, agricultural nation to an urban industrial power. The second semester will examine the change of the United States through World War I, Depression, World War II, the post war boom. Other major topics will include the lasting impact of the turbulent 1960's and 70's and the resurgence of U.S. involvement in global affairs at the end of the century.

Western Civilization – Two Semesters – Two Credits

This is a required 10th grade course in which the students will study the history of the world from the beginning of the historic period. Students will be introduced to the beginning of civilization through 20th century events. The course covers ancient civilizations, the Greeks and the Romans. The course also introduced the students to the development of various religions that are present in modern society. Other topics include the Renaissance, Reformation, French Revolution, Enlightenment, Russian Revolution and important historical figures.

Recent U.S. History – One Semester – One Credit

PREREQUISITE: Grade 11 or 12

In this course, students will learn American History from the end of World War II to the present. The course will focus primarily on the Cold War period from 1945 to 1991, but will also include important events and concepts of the 1990s. Students will gain an understanding of concepts related to the effects of the Nuclear Age, competition between the Communist and Capitalist political systems, the Popular Culture of decades following World War II, and the various conflicts in which the US became involved.

Advanced Placement History – Two Semesters – Two Credits

PREREQUISITE: Grade 11 or 12, teacher recommendations, scores on various writing assessments, social studies grades, and high student interest will all be factors considered in student placement.

A.P. U.S. History analyzes and explores the economic, political, and social changes in America since Columbus. Students master historical knowledge and critical analysis; build reading, writing, and communication skills; and discover how historical events have contributed to American culture. In the process, they'll learn how decisions and events of the past continue to have profound effects on the world today and how knowledge of the causes behind past events can influence future decisions. By the end of the course, students will be ready to put their factual knowledge to work by weighing evidence and interpreting problems presented by historians. The equivalent of an introductory college-level course, AP U.S. History prepares students for the AP exam and for further study in history, political science, economics, sociology, and law.

Psychology – One Semester – One Credit

PREREQUISITE: Grade 11 or 12

Psychology is a one semester course involved with the study of human behavior and mental processes; everything that people think, feel and do. Through research and experimentation, students will discover insight into their own and other people's behavior. Course outcomes center on the mind, the body, learning, memory, perception, personality and the life span.

Economics – One Semester – One Credit

PREREQUISITE: Grades 11-12

Economics is the study of how people make and spend money. This course takes an overview of economics and economic systems. Students will examine how people impact and are impacted by an economic system. Students will understand supply and demand, pricing structures, business organizations money and banking, and the role of the stock market.

American Government – One Semester – One Credit

PREREQUISITE: Grade 12

In this required course, students will learn a brief history of the Declaration of Independence and the Articles of Confederation. The course will focus primarily on the American Constitution and its amendments. Emphasis will be placed on the workings of the three branches of government, voting, political parties, and state government. Students will gain an understanding of the history of our government, the idea of checks and balances, how government works both on the state and federal levels, and the importance of voting to our democracy.

TRANSITION COURSES

Career Transitions – Two Semesters – Two Credits Each Semester

PREREQUISITE: Grade 12 , Required materials: 3-ring 1 1/2" hardcover notebook

This class provides the opportunity to receive hands-on experience in the world of work through a paid position or a volunteer position at a participating business. Students gain career planning information and develop job seeking, work readiness, and employability skills. In addition, leadership and personal life skills such as obtaining credit and managing money are covered. Students also learn entrepreneurial skills such as starting a business, supervising others, and solving workplace problems. The student must make a commitment to regular attendance at school as well the worksite. Two credits may be earned upon successfully completing each semester. A student may enter the 2nd semester with the permission from the instructor.

HEALTH OCCUPATIONS

CES Health Occupations I – Two Semesters – Two Credits Each Semester

PREREQUISITE: Grade 11

This class is held in East Mills School District. This course provides junior and senior students transferable skills and clinical experience to meet the needs of the rapidly expanding health care industry. Major emphasis involves exposure to a wide variety of career opportunities. The student will be introduced to health care systems, professionalism, and successful job-getting/keeping skills. Students will learn skills needed to enter the workforce and adapt to changes in a rapidly changing health care environment. Students will learn the academic foundation for entry level in a health care setting including effective communication, systems theory, legal and ethical responsibilities, safety practices, teamwork, and health maintenance practices. The students will be actively involved in Health Occupations Students of America (HOSA). The students will have the opportunity to job shadow in a variety of medical settings.

CES Health Occupations II – Two Semesters – Two Credits Each Semester

PREREQUISITE: Grade 12 and passed CES Health Occupations I

This class is held in East Mills School District. Students will learn medical terminology studies terms used in medicine. This course gives the students a working knowledge of the roots, prefixes, and suffixes of commonly used medical terms. Emphasis centers on the correct spelling and pronunciation of the vocabulary. Students will have the opportunity to receive college credit in CPR/First Aid and Medical Terminology.

COLLEGE EARLY START COURSES

CES General Biology I – Iowa Western 4 Credits (Fall)

PREREQUISITE: Grade 12.

Designed for science majors. Topics include scientific methodology, the molecular and cellular basis of life; cell division, photosynthesis and respiration; genetics, evolution and ecology; classification and taxonomy. Laboratory exercises complement each topic.

CES General Biology II – Iowa Western 4 Credits (Spring)

PREREQUISITE: Grade 12.

General Biology II is designed for science majors who have successfully complete General Biology I. This class studies the diversity of life by focusing on phyla and class characteristics in all kingdoms: Monera, Protista, Fungi, Plantae, and Animalia. Laboratory exercises complement each topic.

CES Intro To Sociology – 4 Iowa Western 4 Credits (Fall, Spring)

PREREQUISITE: Grade 12.

Explores the disciplines of sociology. Students become familiar with the sociological perspective of the study of human social behavior. The course stresses the development of sociology, social theory, research methods, social institutions (e.g. the family, religion, education, culture, deviant behavior, and demography).

CES Social Problems – Iowa Western 3 Credits (Fall)

PREREQUISITE: Grade 12.

Social Problems acquaints students with theoretical, methodological, and substantive issues in the sociological study of social problems. It examines a variety of social problems in terms of issues in the definition of social problems, difficulties in the measurement of the extent of social problems, contributions that have been made to explaining various aspects of social problems, and the implications of this knowledge for intervention (alleviation or treatment) of prevention of social problems. The course offers examples of social problems such as: racism, environmental decay, sexism, crime and delinquency, and child abuse.

CES Public Speaking – Iowa Western 3 Credits (Fall, Spring)

PREREQUISITE: Grade 12.

Analyzes the fundamentals of oral communication. Covers lectures, readings, and applications of the six principal aspects of public speaking: the speaker, the audience, thought and content, organization, language, and delivery. Also examines the basic principles of small group communication: leadership, the decision-making process, and individual participation in a small group.

CES Intro To Philosophy – Iowa Western 3 Credits (Fall)

PREREQUISTE: Grade 12.

Introduction to Philosophy is an analytical approach to problems such as the nature of man, the question of freedom, and the challenge of change. Students deepen their understandings of these problems and their own responses by studying the thoughts of philosophers such as: Socrates, Plato, Aristotle, St. Thomas Aquinas, Descartes, Locke, Hegel, Kant, Kierkegaard, Sartre, Nietzsche, James, Russell, and Kuhn.

CES Astronomy – Iowa Western 3 Credits (Fall)

PREREQUISTE: Grade 12.

Principles of Astronomy is the study of the universe. It covers life in space, history of the planets, stellar structures, the universe, and current theories on astrophysical phenomena.

CES Western Civilization I – Iowa Western 3 Credits (Fall, Spring)

PREREQUISTE: Grade 12.

Encompasses the history of the western world from its earliest beginnings through the mid-17th century. Topics include Tigris-Euphrates River Valley; the Egyptian Civilization; the rise of Hellenism; the story of Rome; the rise of Christianity as well as the Byzantine Empire, the Medieval World, the Renaissance, the New World and the Age of Reason.

CES Western Civilization II – Iowa Western 3 Credits (Fall, Spring)

PREREQUISTE: Grade 12.

Studies the history of the western world from the early modern era to the present time. Topics include the Age of Absolutism, the Industrial Revolution and capitalism, the French Revolution and the Napoleonic Era, the rise of Nationalism and the German state, European expansion overseas, World War I, the post war period, Adolph Hitler and fascism, World War II, the Iron Curtain, third world development, and the contemporary period.

CES Intro to Ethics – Iowa Western Credits (Fall)

PREREQUISTE: Grade 12.

Introduction to Ethics examines the Kantian, Utilitarian and Virtue principles of moral decision making. Those principles are then used to analyze such issues as hunger, poverty, drugs, environmental problems, racism, abortion, euthanasia, and the economic and criminal justice systems.

CES Intro to Psychology – Iowa Western 3 Credits (Fall, Spring)

PREREQUISTE: Grade 12.

Provides an introduction to the subject matter, terminology, basic research findings, and current topics of interest in scientific psychology. Students explore the biological foundations of human behavior, social-environmental influences, and intra-psychic elements, including perception, consciousness, personality and motivation. A holistic approach is used to understand abnormal behavior, human growth and development, health, stress, and coping.

CES Developmental Psychology – Iowa Western 3 Credits (Spring)

PREREQUISTE: Grade 12.

Examines the life span of humans from conception through death. It looks at the various traditional stages (prenatal, neonatal, infancy, early childhood, late childhood, adolescence, adulthood, old age) and explores various aspects, viewpoints, and research.