

Course Offerings 2011-2012

Number	Title	Grade Level	Credits	Page
Art Department				
50	Art Fundamentals	9, 10, 11, 12	1	4
51/55	Art Survey A/B	10, 11, 12	1 or 2	4
52/56	2 Dimensional Studio A/B	10, 11, 12	1 or 2	4
53/57	3 Dimensional Studio A/B	10, 11, 12	1 or 2	4
54	Art with Computer	10, 11, 12	1	4
Foreign Language Department				
60/61	French I	9, 10, 11, 12	2	5
62/63	French II	10, 11, 12	2	5
64/65	French III	11, 12	2	6
665/67	French IV	12	2	6
Agricultural Education Department				
229/230	Agricultural Science	9,10, 11	2	7
231	Crop Science	10(preferred) 11, 12	2	7
235	<i>Early Bird</i> Principles of Crop Production	11, 12	1 (3 hr ICC)	7
232	<i>Early Bird</i> Farm Business Management	11, 12	1 (3 hr ICC)	8
233	Horticulture	11, 12	1	8
234	Small Animal and Pet Care	10, 11, 12	1	8
224/236	Agricultural Construction 1/2	10, 11, 12	1 or 2	8
140	Environmental Science	11, 12	1	8
Industrial Technology Department				
200	Exploring Technology	9, 10, 11, 12	1	9
201	Applied Woods I	9, 10, 11, 12	1 or 2	9
202	Applied Woods II	10, 11, 12	1 or 2	9
208	<i>Early Bird</i> Introduction to Drafting/CAD	11, 12	1 (3 hr ICC)	9
203	Introduction to Drafting/CAD	9, 10, 11, 12	1	10
204	Advanced Mechanical/CAD	10, 11, 12	1	10
206	Architectural Design/CAD	10, 11, 12	1	10
207	Energy, Power, Transportation	10, 11, 12	1	10
210	Laser Manufacturing I	9, 10, 11, 12	1	11
216	Laser Manufacturing II	10, 11, 12	1 or 2	11
217	Laser Manufacturing III	10, 11, 12	1 or 2	11
209	Independent Study in Technology	11, 12	1	11
224/236	Agricultural Construction 1/2	10, 11, 12	1 or 2	11
211	<i>Early Bird</i> Intro to Residential Construction	11, 12	3 (2 hr ICC)	12
219	<i>Early Bird</i> Concrete Theory & Lab	12	3 (2 hr ICC)	12
218	<i>Early Bird</i> Site Layout /Blueprint Reading	11, 12	3 (1 hr ICC)	12
212	<i>Early Bird</i> Construction Lab 1A	12	3 (4 hr ICC)	13
22	<i>Early Bird</i> Construction Lab 1B	11, 12	3 (4 hr ICC)	13

Number	Title	Grade Level	Credits	Page
Business Education Department				
170	Introduction to Business	9, 10, 11, 12	1	14
178	Web Design	10, 11, 12	1	14
180	<i>Early Bird</i> Introduction to Business	11, 12	1 (3 hr ICC)	14
181	<i>Early Bird</i> Introduction to Accounting	11, 12	1 (3 hr ICC)	15
182	<i>Early Bird</i> Computerized Accounting	11, 12	1 (3 hr ICC)	15
183	<i>Early Bird</i> Intro to Computer	11, 12	1 (3 hr ICC)	15
184	<i>Early Bird</i> Principles of Marketing	11, 12	1 (3 hr ICC)	15
185	<i>Early Bird</i> Office Admin I	11, 12	1 (1 hr ICC)	15
Health Department				
31	Health I	9, 10	1	16
Family and Consumer Science Department				
156	FCS Foundations	9, 10, 11, 12	1	17
150	Food Fundamentals	9, 10, 11, 12	1	17
151	Advanced Foods	10, 11, 12	2	18
157	<i>Early Bird</i> Intro to Hospitality	11, 12	1 (3 hr ICC)	18
159	Ind. St. in Food Service Industry	11, 12	1 or 2	18
153	Child Development	9, 10, 11, 12	1	19
155	Design: Clothing & Housing	9, 10, 11, 12	1	19
Language Arts Department				
69/70	Language Arts I	9	2	20
71/72	Language Arts II	10	2	20
73/74	Language Arts III	11	2	20
77	Speech	10, 11, 12	1	20
76	Mass Media Communications	10, 11, 12	2	21
82	Reading Enrichment	9, 10, 11, 12	2	21
79	Creative Writing	11, 12	1	21
78	Language and Literature Survey	11, 12	1	21
46	Introduction to Theatre	9,10,11	1 or 2	22
80	<i>Early Bird</i> Composition I	11, 12	1 (3 hr ICC)	22
81	<i>Early Bird</i> Composition II	11, 12	1 (3 hr ICC)	22
Mathematics Department				
108/109	Math Applications	9, 10, 11, 12	2	23
112/113	Pre-Algebra	9, 10, 11, 12	2	23
114/115	Algebra I	9, 10, 11, 12	2	23
116/117	Algebra II	10, 11, 12	2	23
118/119	Basic Geometry	10, 11, 12	2	24
120/121	Geometry	9, 10, 11, 12	2	24
122/123	Pre Calculus	11, 12	2	24
124/125	Calculus	12	2	24

Number	Title	Grade Level	Credits	Page
Science Department				
229/230	Agricultural Science	9	2	25
130/131	Physical Science	9	2	25
132/133	Biology	10	2	25
134/135	Chemistry	11, 12	2	25
136/137	Physics	11, 12	2	26
138/139	Human Anatomy & Physiology	11, 12	2	26
140	Environmental Science	10, 11, 12	1	26
Social Studies Department				
90	World Geography	9	1	27
91/92	World History	10	2	27
93/94	American History	11	2	27
100	American Government	12	1	27
95	Current Issues A	9, 10, 11, 12	1	28
96	Current Issues B	9, 10, 11, 12	1	28
97	<i>Early Bird</i> Intro to Psychology	11, 12	1 (3 hr ICC)	28
98	<i>Early Bird</i> Intro to Sociology	11, 12	1 (3 hr ICC)	28
Special Programs				
10	Personal Living (TAG)	9, 10, 11, 12	1	29
15	Exploring Elem Education	10, 11, 12	1 or 2	29
23	Leadership	9,10, 11, 12	1	29
222	Virtual Reality	9,10,11,12	1 or 2	29
Advanced Placement Classes				
102	US History	11,12	2	30
144	Chemistry	11,12	2	30
75	Language & Composition	11,12	2	30
83	Literature & Composition	11,12	2	30
145	Physics	11,12	2	31
Music Education Department				
40	Band	9, 10, 11, 12	.5	32
42	Concert Choir	9, 10, 11, 12	.5	32
43	Music Theory I	10, 11, 12	1	32
44	Music Theory II	11, 12	1	33
41	Quantum	9, 10, 11, 12	.5	33
46	Intro to Theatre	9, 10, 11, 12	1	33
47	Marching Band	9, 10, 11, 12	.5	33
48	Jazz Band	9, 10, 11, 12	.5	33
16	Exploring Music Education	11, 12	.5	33
EXPLORING MUSIC EDUCATION				
Elective	.5 credit	11, 12		
Physical Education Department				
20	Physical Education Day #1	9, 10, 11, 12	.5	34
21	Physical Education Day #2	9, 10, 11, 12	.5	34
22	Zero Hour Physical Education	10, 11, 12	1	34
24/25	Weight Training	9, 10, 11, 12	1 or 2	34

ART DEPARTMENT

ART FUNDAMENTALS (50)

elective **1 credit** **9,10,11,12**

The student will:

- ~complete assignments that concentrate on art elements: line, shape, value, texture, & color
 - ~complete line drawings using different media and different drawing types
 - ~learn the perspective system as 3 dimensional shapes are produced
 - ~mix and adjust color working with the color wheel, color characteristics and arrangement
 - ~complete artwork that emphasizes light and dark (value)
 - ~complete artwork that emphasizes texture
-

ART SURVEY A (51)

elective **1 credit** **10,11,12**

The student will:

- ~complete drawings that deal with positive and negative space
 - ~complete drawings using perspective in a non-traditional way
 - ~study the use of proportion in drawing
 - ~draw portraits
 - ~work with light and shadow in drawing
 - ~learn basic watercolor techniques
 - ~create watercolor paintings using different techniques, styles, and subjects
 - ~create oil pastel work that employ different techniques, styles, and subjects
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ART SURVEY B (55)

elective **1 credit** **10,11,12**

The student will:

- ~Create design objects using research, drawing, and sculpture
 - ~Complete sculpture using paper mache
 - ~Produce hand-built clay objects
 - ~Learn calligraphy and use knowledge to create calligraphy projects
 - ~Learn printmaking process and complete several monoprints
 - ~Apply printmaking knowledge to block printing
-

3 DIMENSIONAL STUDIO A (53)

elective **1 credit** **10,11,12**

The student will:

- ~Work with several different materials in creating 3 dimensional artwork
 - ~create low relief sculpture
 - ~create high relief sculpture
 - ~learn about historical trends in sculpture
 - ~identify works of famous 3 dimensional artists
-

3 DIMENSIONAL STUDIO B (57)

elective **1 credit** **10,11,12**

The student will:

- ~learn and review clay hand-building techniques
- ~learn potter's wheel technique and procedure
- ~learn about trends and techniques of accomplished potters
- ~create functional clay pieces
- ~create decorative clay pieces
- ~develop personal style in decorating and glazing

FOREIGN LANGUAGE DEPARTMENT

FRENCH I A (61) & B (61)

elective 2 credits 9, 10, 11, 12

The student will:

- * demonstrate informal and formal greetings, introductions, and leave taking
- * use novice speaking skills in carrying on conversations about one's self (name, place of residence, appearance, age, health, etc.)
- * describe one's home, family, clothing, food, classroom objects, animals, and places using adjectives as appropriate
- * extend, accept and decline invitations
- * demonstrate knowledge of time (i.e. clock time, days, months, seasons, etc.)
- * demonstrate knowledge of basic weather conditions
- * identify likes and dislikes
- * count to one million
- * speak and write using the present tense and its forms
- * identify French-speaking countries throughout the world
- * identify food associated with French-speaking countries
- * demonstrate knowledge of the French public education system
- * demonstrate knowledge of the French monetary system

FRENCH II A (62) & B (63)

elective 2 credits 10, 11, 12

Prerequisite: French I

The student will:

- * communicate in both present and past tenses, both orally and in writing
 - * use possessive, demonstrative, direct object and indirect object pronouns
 - * use vocabulary associated with shopping, finding one's way around, discussing leisure activities, dining out and planning and preparing food
 - * identify geographic features of France
 - * locate French-speaking countries on a map
 - * demonstrate the preparation of a food associated with French-speaking countries
 - * demonstrate knowledge of the French metro system
 - * demonstrate knowledge of selected French artists and their works
 - * read and discuss items of French realia
- explore the causes and results of the French Revolution

FRENCH III A (64) & B (65)

elective 2 credits 11, 12

Prerequisites: French I and II

The student will:

- *communicate in present, past, imperfect and future tenses, both orally and in writing
- *use possessive, demonstrative, direct object, indirect object, relative and reflexive pronouns as well as double object pronouns
- *use inversion in the interrogative
- *use vocabulary associated with family relationships, food and restaurants, daily routine, getting around in a city, sports and fitness, careers and medical/dental
- *use comparisons in describing oneself and others, places and things
- *demonstrate recognition of well-known landmarks in Paris
- *present detailed information on a French-speaking city of his/her choice
- *read and discuss items of French literature

FRENCH IV A (66) & B (67)

elective 2 credits 12

Prerequisites: French I, II and III

The student will:

- *communicate in present, past, imperfect, future, conditional and subjunctive tenses, both orally and in writing
- *contrast the imperfect and the *passé composé*
- *use possessive, demonstrative, direct object, indirect object, relative and reflexive pronouns as well as double object pronouns and the pronouns *lequel* and *celui*
- * use comparisons with adverbs and adjectives
- *use superlative constructions
- *use vocabulary associated with leisure activities, music, entertainment; vacation and travel; transportation; sports, fitness; daily routines; clothing and personal appearance; medical and dental care; hygiene and personal care; professions; food; shopping; homes, rooms and furnishings
- *demonstrate the ability to find one's way around the city of Paris (i.e., public transportation, streets, *arrondissements*)
- *demonstrate the ability to live in Paris for an extended period of time (i.e., rent a place to live, shop for life's necessities, dine in a restaurant, find employment)
- *read and discuss items of French literature

AGRICULTURAL EDUCATION DEPARTMENT

The Agricultural Education program is designed to instruct young women and men in and about agriculture, to investigate careers, and to integrate other curricula as students prepare for their futures.

AGRICULTURAL SCIENCE A (229) & B (230)

Elective 2 credits 9, 10

The student will:

- *demonstrate problem solving techniques and proper measurement methods in the laboratory
- *explain entrepreneurship and develop an individual SAE program
- *enter a project in the State Agriscience Fair
- *explore the FFA and what it has to offer
- *complete an activity based curriculum on current animal production practices including selection, genetics, reproduction, digestion/growth, and processing
- **understand additional selected topics current and relevant to agriculture and FFA*

This course will fulfill a science credit.

All students taking Agricultural Science must also become FFA members

CROP SCIENCE (231)

Elective 2 credits 10 (preferred), 11, 12

PREREQUISITE: Starting 2010-11 School Year for EB Principles of Crop Production

The student will:

- *identify soils, soil management, and prepare for the FFA soil judging contest
- *investigate production and marketing techniques for corn and soybeans
- *understand quality and price factors affecting grain crops
- *determine issues affecting natural resources management
- *continue and improve Supervised Agricultural Experience Program
- *understand additional selected topics current and relevant to agriculture and the FFA

All students taking Crop Science must be or become an FFA member

Early Bird ICCC College Credit Class

PRINCIPLES OF CROP PRODUCTION (235)

Elective 1 High School credit, 3 semester hours college credit 11, 12

The student will:

- Demonstrate the anatomy, classification and be able to identify plant types
- Explain crop physiology, soil types, and soil waters
- Apply technological advances to tillage, seeding and plant breeding
- Demonstrate seed and grain quality, weed and insect management, crop disease management, harvesting and storing crops

Early Bird ICCC College Credit Class

FARM BUSINESS MANAGEMENT (232)

Elective 1 High School credit, 3 semester hours college credit 11, 12

The student will:

- Use basic management skills and to make decisions
- Chart daily markets for crops and livestock
- Acquire resources needed for proper management
- Learn to make decisions in a team setting to carry out operations in chapter test plot
- Develop and use basic accounting and budgeting principles

HORTICULTURE (233)

Elective 1 credit 11, 12

The student will:

- * describe plant make-up and plant propagation
- * gain hands on experience in greenhouse management, landscaping, turf grass management, and fruit production
- * grow plants and prepare them for sale
- * produce flower arrangements using basic techniques
- prepare for FFA floriculture and nursery landscape contests

SMALL ANIMAL AND PET CARE (234) (Max. 16)

Elective 1 credit 1 10, 11, 12

The student will:

- * gain hands on experience working with animals
- * work with a variety of animals including rabbits, chickens, turkeys, horses, cats and dogs
- * determine basic animal science principles
- * explore information about animal behavior, reproduction, growth/development, selection, diseases, handling and training

AGRICULTURAL CONSTRUCTION 1 (224) or 2 (228)

Elective 1 or 2 credits 10,11,12

The student will:

- * demonstrate problem solving techniques and proper measurement methods in the laboratory and shop
- * demonstrate proper safety using all shop tool
- * perform gas and diesel engine repair and maintenance
- * demonstrate installation of simple electrical circuits
- * perform basic plumbing installation
- be introduced to the various agricultural machines 7

ENVIRONMENTAL SCIENCE (140)

Elective 1 credit 11, 12 This course will fulfill a science credit

The student will:

- Understand basic and advanced concepts of natural resource management
- Test water quality and maintain acceptable levels of concentration
- Care for and maintain aquaculture ecosystem
- Taxidermy a pheasant
- Understand the roll of economics on natural resources
- Work with various alternative energy sources

INDUSTRIAL TECHNOLOGY DEPARTMENT

The Industrial Technology program is designed to instruct young women and men in and about industrial technology and investigate careers in this area.

EXPLORING TECHNOLOGY (200)

Elective 1 credit 9, 10, 11, 12

MAXIMUM ENROLLMENT OF 15

The student will:

- * be introduced to careers related to industry
- * develop hands-on and problem solving skills
- * research and understand the areas of transportation, energy/power communications, and manufacturing/production/construction technology
- * operate and use tools in the lab area safely and successfully
- * construct a super clip, CO2 Dragster, sheet metal box, and a few other projects
- be introduced to welding

APPLIED WOODS I (201)

Elective 1 or 2 credit 9, 10, 11, 12

Prerequisite: Exploring Technology with a C or better or Instructors Approval.

MAXIMUM ENROLLMENT OF 13

The student will:

- design, manufacture, and finish a working piece of furniture
- use and maintain equipment and tools in the lab area
- work on general hands-on and critical thinking skill
- identify career options in today's industry

APPLIED WOODS II (202)

Elective 1 or 2 credit 10,11,12

Prerequisite: Exploring Technology with a C or better or Instructors Approval.

MAXIMUM ENROLLMENT OF 13

The student will:

- *design, manufacture, and construct a functional project
- *have either a door or drawer construction
- *develop skills for independent and critical thinking
- *identify career options in the world of today
- *provide B.O.M. and S.O.P. along with complete set of drawings for their project

Early Bird ICCC College Credit Class

INTRODUCTION TO DRAFTING/CAD (208)

Elective 1 High School credit, 3 semester hours college credit 11, 12

Prerequisite: Introduction to Drafting/CAD

MAXIMUM ENROLLMENT OF 12

The student will:

- *be introduced to the use of Computer-Aided Drafting software
- *create and modify drawings.
- *print hard copies.
- *change the drawing environment to meet task requirements.
- *use critical thinking skills.

INTRODUCTION TO DRAFTING/CAD (203)**Elective 1 credit 9, 10, 11, 12****MAXIMUM ENROLLMENT OF 12**

The student will:

- * know and understand career areas involved in technical design
- * use and maintain traditional and computer aided drafting equipment
- * learn the basics of drafting from multi-view drawing to dimensioning
- * develop skills using Auto CAD software applications
- * use a plotter to print a variety of drawings
- use critical thinking skills

ADVANCED MECHANICAL/CAD (204)**Elective 1 credit 10, 11, 12****Prerequisite: Introduction to Drafting/CAD****MAXIMUM ENROLLMENT OF 12**

The student will:

- * advance general skills in computer aided drafting and design
- * complete a variety of engineered drawings that are commonly used in industry
- * produce assembly drawings used in manufacturing
- * complete a number of projects using CAD/CAM software
- use technical manuals for researching engineering information

ARCHITECTURAL DESIGN/CAD (206)**Elective 1 credit 10, 11, 12****Prerequisite: INTRO TO CAD or EB Intro to CAD with a C or better or Instructors approval.****MAXIMUM ENROLLMENT OF 12**

The student will:

- * be introduced to career options in architectural design
- * know and understand parts of an architectural drawing
- * develop and use symbols in architectural drawings
- complete a variety of small drawings using Auto CAD
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ENERGY, POWER, AND TRANSPORTATION SYSTEMS (207)**elective 1 credit 10, 11, 12****MAXIMUM ENROLLMENT OF 12**

The student will:

- * be introduced to careers in the transportation industry
- * research and understand methods of transportation
 - * complete a variety of activities related to energy, power, and transportation systems (wind generators, residential wiring, etc.)
 - * rebuild a small engine for the final class project
- be introduced to welding

LASER MANUFACTURING I (210)

Elective 1 credit 9,10,11, 12

Prerequisite: INTRO TO CAD with a C or better or Instructors approval.

MAXIMUM ENROLLMENT OF 12

The student will:

- * use a variety of problem solving techniques
- * demonstrate professionalism when dealing with clients
- * be introduced to the basics of lasers and how they work
- * develop skills in high accuracy craftsmanship
- * engrave several different types of material
- * use and meet Deadlines for projects
- attend at least 2 public events and demonstrate the Versa Laser
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LASER MANUFACTURING II (216)

Elective 1 or 2 credit 10,11, 12

Prerequisite: LASER MANUFACTURING I

MAXIMUM ENROLLMENT OF 12

The student will:

- * be introduced to the record keeping process
- * develop skills in high accuracy craftsmanship
- * use a variety of problem solving techniques
- * use and meet Deadlines for projects
- *attend at least 2 public events and demonstrate the Versa Laser

LASER MANUFACTURING III (217)

Elective 1 or 2 credit 10,11, 12

Prerequisite: LASER MANUFACTURING I

MAXIMUM ENROLLMENT OF 12

The student will:

- * become familiar with all aspects of how a business is created and functions
- * keep all the financial records up-to-date
- * develop skills in high accuracy craftsmanship
- * use a variety of problem solving techniques
- * use and meet Deadlines for projects
- *attend at least 2 public events and demonstrate the Versa Laser

AGRICULTURAL CONSTRUCTION 1 (224) or 2 (228)

Elective 1 or 2credits 10,11,12

The student will:

- * demonstrate problem solving techniques and proper measurement
- * demonstrate proper safety using all shop tools
- * perform gas and diesel engine repair and maintenance
- * demonstrate installation of simple electrical circuits
- * perform basic plumbing installation
- * be introduced to the various agricultural machines

Early Bird ICCC College Credit Class

INTRODUCTION TO RESIDENTIAL CONSTRUCTION (1st year students) (211)

Elective 3 High School credits, 2 semester hours college credit

11, 12

Students will be introduced to basic residential construction history, terminology, materials and basic construction techniques. This course will cover basic information and develop manual skills needed to begin construction of a new home

Prerequisite: Exploring Technology or Applied Woods and Architectural Design/CAD or instructor approval

The teacher is an approved instructor with experience in construction. Students will be responsible for providing their own transportation to the building site. **Students must have on file a notarized Transportation Release form, available from the counseling office, before being allowed to attend this class.**

The student will:

- * use hand and power tools safely
- * read plan specifications and codes
- * relate the history of building

Early Bird ICCC College Credit Class

CONCRETE THEORY & LAB (1st year students) (219)

Elective 3 High School credits, 2 semester hours college credit

11, 12

Emphasis of this course will be concrete estimation, poured foundation formwork and placement, insulated concrete forms erection and placement, and placement of exterior and interior flatwork by various methods including pumper trucks. A variety of applications and finishes will be covered. Safety will be strongly enforced.

Prerequisite: Exploring Technology or Applied Woods and Architectural Design/CAD or instructor approval

Students will be responsible for providing their own transportation to the building site. **Students must have on file a notarized Transportation Release form, available from the counseling office, before being allowed to attend this class.**

Early Bird ICCC College Credit Class

SITE LAYOUT & BLUEPRINT READING (1st year students) (218)

Elective 3 High School credits, 1 semester hours college credit

11, 12

This course will train students to interpret and use working drawings and blueprints. It includes an understanding of construction symbols and building specifications. Students will develop a site layout for various projects utilizing lasers, builder's levels, blueprints, and site plans.

Prerequisite: Exploring Technology or Applied Woods and Architectural Design/CAD or instructor approval

Students will be responsible for providing their own transportation to the building site. **Students must have on file a notarized Transportation Release form, available from the counseling office, before being allowed to attend this class.**

Early Bird ICCC College Credit Class

CONSTRUCTION LAB 1A (2nd year students) (212)

Elective 3 High School credits, 4 semester hours college credit

12

This course consists of construction of floors, stairs, walls, ceilings, and roof systems in a residential setting or shop location. This course will expand on Introduction to Residential Construction. Construction safety will be strongly enforced. Safety glasses are required when working on site as required by Iowa Law.

Prerequisite: 1st year Building Trades classes

Students will be responsible for providing their own transportation to the building site. **Students must have on file a notarized Transportation Release form, available from the counseling office, before being allowed to attend this class.**

Early Bird ICCC College Credit Class

CONSTRUCTION LAB 1B (2nd year students) (223)

Elective 3 High School credits, 4 semester hours college credit

12

This course consists of construction of floors, stairs, walls, ceilings, and roof systems in a residential setting or shop location. This course will expand on Introduction to Residential Construction. Construction safety will be strongly enforced. Safety glasses are required when working on site as required by Iowa Law.

Prerequisite: 1st year Building Trades classes

Students will be responsible for providing their own transportation to the building site. **Students must have on file a notarized Transportation Release form, available from the counseling office, before being allowed to attend this class.**

BUSINESS EDUCATION DEPARTMENT

The business education program is designed to instruct young women and men in and about business and investigate business careers.

INTRODUCTION TO BUSINESS (170)

Elective **1 credit** **9, 10, 11, 12**

The student will:

- * develop career awareness and related skills to enable the student to make viable career choices and become employable in a variety of business careers
- * select and apply the tools of technology as they relate to personal and business decision making
- * demonstrate ability to communicate effectively as writers, listeners, and speakers in social and business settings
- * demonstrate ability utilizing tools needed to understand and make reasoned decisions about economic issues - both personal and societal
- * demonstrate ability using accounting procedures to make decisions about planning, organizing, and allocating resources

WEB DESIGN (178)

Elective **1 or 2 credits** **9,10, 11, 12**

The student will:

learn to create sophisticated web sites with Macromedia's Dreamweaver - the preferred HTML editor of professional Web designers. Become skilled in designing sites with advanced layouts by using tables, style sheets, images and more. Go from beginner to intermediate as you create a portfolio-building project web site of your own. Students will also use their learned skills to maintain the school's web site by adding content, multimedia, and graphics.

This course presents introductions to many of the basic concepts, issues and techniques related to designing, developing and deploying web sites. During the course, students will learn about web design, HTML, XHTML, basic JavaScript, Dynamic HTML, Applets, and Cascading Style Sheets (CSS).

Early Bird ICCC College Credit Class

INTRODUCTION TO BUSINESS (180)

Elective **1 High School credit, 3 semester hours college credit** **11, 12**

The student will

- * understand the structure and environment of business.
- * understand management, the organization of business, and human resource management.
- * understand marketing management of business.
- understand the accounting and financing functions of a business.
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Early Bird ICCC College Credit Class¹⁵

INTRO TO ACCOUNTING (181)

Elective **1 High School credit, 3 semester hours college credit** **11, 12**

The student will:

- * define basic accounting terminology as it relates to the fundamental accounting equation.
- * analyze business transactions and construct accounting entries.
- * define the double-entry framework and use T accounts to analyze transactions.
- * journalize entries and post into accounts.
- * prepare a worksheet, which includes adjustments.
 - * complete the accounting cycle—financial statements and closing entries from worksheet.
 - * use special journals to record business transactions.
 - * reconcile a bank statement and use a petty cash fund.
- calculate and journalize employee payroll and employer payroll taxes.

Early Bird ICCC College Credit Class

COMPUTERIZED ACCOUNTING (182)

elective 1 High School credit, 3 semester hours college credit 11, 12

Prerequisite: Accounting Essentials

Peachtree 8.0 for Accounting (1.5 Semester Hours): This course is designed to provide the student experience in handling automated accounting in a number of areas. These include General Ledger, Accounts Receivable, Accounts Payable, Payroll, Depreciation, Inventory and Accounting Statement Analysis. Simulation of business and its activities are processed through the entire accounting cycle culminating in the various accounting reports. The applications will be done on the computer utilizing the software program Peachtree 8.0.

Quickbooks Pro 2001 for Accounting (1.5 Semester Hours): This course is designed to provide the student experience in handling automated accounting in a number of areas. These include General Ledger, Accounts Receivable, Accounts Payable, Payroll, Depreciation, Inventory and Accounting Statement Analysis. Simulation of business and its activities are processed through the entire accounting cycle culminating in the various accounting reports. The applications will be done on a computer utilizing the software program Quickbooks Pro 2001.

Early Bird ICCC College Credit Class

INTRODUCTION TO COMPUTER (183)

Elective 1 High School credit, 3 semester hours college credit 11, 12

WORD: This course is an introductory word processing course. Students will learn the basic features of Word 2000, including saving documents as web pages.

EXCEL: This is an introductory spreadsheet course. The students will learn the basic features of electronic spreadsheet software including how to create, change, save, and print worksheets.

POWERPOINT: This is an introductory electronic presentation course. Students will create presentation materials to use as visual aids when giving a presentation to a group.

ACCESS: This course is an introductory database course. The students will learn the basic features of database management software including how to use the computer to collect, locate, update, and report information.

Early Bird ICCC College Credit Class

OFFICE ADMINISTRATION I/JOB SEEKING SKILLS (185)

Elective 1 High School credit, 1 semester hour college credit 11, 12

This course provides instruction to enable students to acquire those skills needed to seek employment. Students practice proper interviewing techniques, write letters of application, prepare resumes, and study sources of information relating to job availability.

The student will:

- *develop the competence and confidence for a wide variety of office positions
- *develop positive interviewing techniques, cover letter, resume, application and thank you letter
- *implement word processing software in the production of error-free business correspondence and documents
- * enter numeric data and complete business transactions on the 10-key calculator
- *demonstrate a solid foundation of skills and knowledge upon which to build a rewarding career
- *use and maintain a Records Management System
- *demonstrate Personal Management Techniques
- *develop on-the-job training skills

Early Bird ICCC College Credit Class

PRINCIPLES OF MARKETING (184)

Elective 1 High School credit, 3 semester hour college credit 11, 12

This survey course of the marketing field examines the movement of goods and services from the producer to the consumer. The areas of retailing, wholesaling, channels of distribution, marketing research, and pricing are approached from the total marketing concept.

HEALTH DEPARTMENT

All students must take health while in high school. It is advised that students take health during their freshman or sophomore year. There is one health class that covers the following topics.

HEALTH (31)

Required **1 credit** **9, 10, 11, 12**

The student will:

- *analyze skills and decisions necessary to develop and maintain high quality physical, mental and emotional health and wellness
- * identify mental health issues and ways to cope with stress and other problems
- * examine the effect of positive relationships on the individual and develop techniques to strengthen these relationships
- * identify life cycle changes and issues from birth to death
- * examine community and environmental health from the personal level
- * evaluate consumer health options
- *analyze skills and decisions necessary to develop and maintain high quality physical, mental and emotional health and wellness
- * explain the need for a life-long fitness plan and how to develop one
- * analyze and plan for the dietary needs of students, including those with eating disorders or special circumstances
- * identify strategies to avoid the problems of substance abuse and to find alternate activities
- * describe and practice procedures for prevention and control of disease
- * practice ways to handle emergency situations

FAMILY AND CONSUMER SCIENCE DEPARTMENT

Family and Consumer Sciences Education empowers individuals and families across the life span to manage the challenges of living and working in a diverse global society. Our unique focus is on families, work, and their relationships.

FCS FOUNDATIONS (156)

Elective 1 credit 9, 10, 11, 12 MAXIMUM ENROLLMENT OF 16

This course is designed to empower students to take action for their own wellbeing in life—in the family, the workplace, and the community. Topics including personal development, decision-making, problem solving, critical thinking, leadership, teamwork, relationships, communication, career development, workplace readiness, financial literacy, nutrition and wellness, consumer responsibility, and management of clothing, housing, recreational and food needs are reinforced in this course. 21st Century Skills of civic, financial, health, and technology literacy and employability skills are introduced and practiced. This course is designed to provide a foundation for future enrollment in other Family and Consumer Science classes.

The student will:

- Analyze factors that influence human growth and development
- Demonstrate respectful and caring relationships in the family, workplace and community
- Evaluate the significance of family and its effects on the well-being of individuals and society
- Integrate multiple life roles and responsibilities in family, work and community settings
- Evaluate management practices related to human, economic and environmental resources

FOOD FUNDAMENTALS (150)

Elective 1 credit 9, 10, 11, 12

MAXIMUM ENROLLMENT OF 16

Recommended: FCS Foundations

This course examines the nutritional needs of the individual and families throughout the life cycle, explores nutritional tools and guidelines, kitchen and meal management, food preparation techniques, consumer skills, and career exploration in the food and nutrition industries.

The student will:

- Evaluate the nutritional needs of individuals and families in relation to health and wellness across the life span.
- Evaluate various dietary guidelines in planning to meet nutrition and wellness needs.
- Demonstrate food safety and sanitation procedures.
- Demonstrate industry standards in selecting, using, and maintaining food production and food service equipment.
- Demonstrate food preparation methods and techniques for all menu categories to produce a variety of food products
- Demonstrate menu planning principles and techniques based on standardized recipes
- Analyze career paths within the food production and food services industries.

ADVANCED FOODS (151)

Elective 2 credits 10, 11, 12

Requirement: Food Fundamentals

Recommended: FCS Foundations

4th and 5th periods – offered both 1st and 3rd Trimester only

MAXIMUM ENROLLMENT OF 16

This 2 period class will introduce students to the many aspects of professional food preparation and service including menu planning, menu testing, costing, purchasing supplies, sanitation, advertising techniques, accounting principles, customer service, leadership, communication, time management, cooperation, organization and other employability skills. It will provide an opportunity to gain job experience working in MNW's student-run restaurant, the Autumn or Springtime Grill.

The student will:

- Analyze career paths within the food production and food services industries
- Evaluate factors that affect food safety, from production through consumption
- Demonstrate food safety and sanitation procedures.
- Demonstrate menu planning principles and techniques based on standardized recipes to meet customer needs.
- Demonstrate industry standards in selecting, using, and maintaining food production and food service equipment.
- Demonstrate professional food preparation methods and techniques for all menu categories to produce a variety of food products that meet customer needs.
- Demonstrate implementation of food service management and leadership functions
- Demonstrate the concept of internal and external customer service.

Early Bird ICCC College Credit Class

INTRODUCTION TO HOSPITALITY (157)

Elective 1 credit 11, 12

This class is a dual credit course for 3 semester hours of credit with ICCC.

Recommended: FCS Foundations, Food Fundamentals

MAXIMUM ENROLLMENT OF 16

This ICCC dual credit course will take a detailed look at restaurant and institutional food service operations, hotel and motel management, travel, tourism and international hospitality. Students will evaluate career opportunities and learn the level of quality and service necessary in this fast-growing, ever-changing industry.

The student will:

- Describe the scope of the hospitality industry.
- Discuss each major segment of the industry, including tourism, lodging, and food service.
- Identify major companies in the hospitality industry as well as major industry associations.
- Identify the major sources of information (publications, journals) for the hospitality industry.
- Describe and discuss current issues relative to the hospitality industry.
- Describe and discuss management of hospitality operations.
- Analyze career paths within the hospitality, tourism, and recreation industries.

INDEPENDENT STUDY IN THE FOOD SERVICE INDUSTRY (159)

Elective 1 or 2 credits 11, 12

Required: Food Fundamentals, Advanced Foods

Strongly recommended: FCS Foundations, Introduction to Hospitality

4th and 5th periods – offered both 1st and 3rd Trimester only

MAXIMUM ENROLLMENT TOTAL OF 16 INCLUDING ADVANCED FOODS NUMBERS

This is the culminating class in the Hospitality and Tourism career pathway at MNW is for juniors and seniors who are interested in further career exploration in the culinary arts, food service and/or hospitality fields. The course is a supervised independent study class that provides job shadowing experiences, field trips, career exploration, projects and presentations, as well as some management responsibilities in the Springtime or Autumn Grill. The class can be taken 6th or 7th period for 1 credit or 6th and 7th periods for 2 credits. Skills in

management, decision making, problem solving, critical thinking, leadership, teamwork, interpersonal relationships, technology, consumer responsibility, workplace readiness, civic involvement, and communication are reinforced in this course.

CHILD DEVELOPMENT (153)

Elective 1 credit 9, 10, 11, 12

This course will give students basic knowledge of child development from prenatal development through adolescence. It will allow students to explore the impact of parenting and care giving, and analyze factors that promote growth and development. Students will have the opportunity to plan and conduct learning activities, to interact with and to observe young children. The class is designed for students interested in a career working with children or in future parenting.

The student will:

- Analyze physical and emotional factors related to beginning the parenting process.
- Evaluate the effects of parenting roles and responsibilities on strengthening the well-being of individuals and families
- Analyze strategies that promote growth and development across the life span
- Demonstrate a safe and healthy learning environment for children.
- Analyze career paths within early childhood, education, and services.
- Integrate knowledge, skills, and practices required for careers in early childhood, education, and services

DESIGN: CLOTHING AND HOUSING (155)

Elective 1 credit 9, 10, 11, 12

MAXIMUM ENROLLMENT OF 16

This class explores two areas –Textiles and Apparel, and Housing, Interiors and Furnishings. Nine weeks will be spent on each industry. This class is based on real-world projects and will explore skills needed for, and careers available in both industries.

Projects in textiles and apparel may include: historical costume research, making musical banners, creating craft/apparel projects, repairing school uniforms, altering costumes, as well as being involved in service projects.

In this quarter, the student will:

- Explore the history of textiles and apparel
- Evaluate fiber and textile materials
- Demonstrate skills needed to produce, alter or repair fashion, apparel and textile products
- Practice apparel and textile design skills
- Analyze career paths within textile, apparel, and design industries.

Projects in housing, interiors and furnishings may include: making an architectural styles scrapbook, measuring and creating scaled drawings, creating interior design sample boards, using real estate agencies to locate suitable housing for clients, creating power point presentations, and being involved in the interior design process in the building trades house.

In this quarter, the student will:

- Analyze influences on architectural and furniture design and development.
- Demonstrate computer-aided drafting design, blueprint reading, and space planning skills required for the housing, interiors, and furnishings industry
- Evaluate the use of housing and interior furnishings and products in meeting specific design needs
- Evaluate client's needs, goals, and resources in creating design plans for housing, interiors, and furnishings
- Apply design knowledge, skills, processes and theories, and oral, written and visual presentation skills to communicate design ideas.
- Analyze career paths within the housing, interiors, and furnishings industry

LANGUAGE ARTS DEPARTMENT

LANGUAGE ARTS I A (69) & B (70)

Required **2 credits** **9**

The students will:

- * read and critically analyze novels, classic plays and short stories
- * compose stories and journal entries throughout the school year
- * compose a variety of essay forms
- * practice effective research techniques for writing
- * reinforce grammar

LANGUAGE ARTS II A (71) & B (72)

Required **2 credits** **10**

The students will:

- * use an expanded vocabulary
- * interpret and respond to fiction, both orally and in writing
- * compose responses to various genres, demonstrating accurate and organized thinking and writing skills
- * take part in a comprehensive approach to grammar review

LANGUAGE ARTS III A (73) & B (74)

Required **2 credits** **11**

The students will:

- * apply advanced research techniques in the creation of a National History Day project.
- * utilize appropriate research formatting in writing an NHD research paper.
- * practice reading, writing, listening and speaking skills when participating in small groups
- * actively pursue increased vocabulary development
- * analyze elements of literature in all genres of American literature, including literary works describing the African American, Native American, Hispanic American and feminine experience in America
- * compare and contrast various perspectives within classic American literature
- * evaluate the ideas of American poets, short story writers, novelists, playwrights and film directors and relate these themes to the students' own lives and educational experiences
- * parallel the evolution of American literature with events in American History while discussing its impact

SPEECH (77)

Elective **1 credit** **10, 11, 12**

Prerequisite: Language Arts I

The student will:

- * analyze the importance of understanding both intrapersonal and interpersonal communication skills
- * employ the relationship of both verbal and non-verbal skills in the communication process
- * demonstrate a model of an effective communication process
- * research, document and organize information for an informative speech, a persuasive speech, a "how to" speech and a special occasion speech
- * demonstrate appropriate skills in presenting an oral interpretive piece to an audience

MASS MEDIA COMMUNICATIONS (76)**Elective 1 or 2 credits 9, 10,11,12****Recommended prerequisite: Language Arts I**

The students will:

- * be responsible for the production of the annual school yearbook and the monthly newsletter to the school district entitled “Cougar Tracks”
- * incorporate the use of desktop publishing and other word processing skills
- * design and construct page layouts for publication
- * operate all types of cameras for use in publication and demonstrate all applications necessary to prepare photos for publication
- * demonstrate competence in the general skills and strategies of the writing process (i.e. use correct spelling and standard grammar in all writing situations, use a variety of prewriting strategies, revise written materials as necessary before publication, etc)
- * construct and distribute various business communications as necessary for the production of the publications
- * study and demonstrate professional ethics of journalism, both in the interview process and the writing process
- examine careers in the field of desktop publishing

READING ENRICHMENT (82)**Required if qualifies 1 credits 9, 10, 11****This is a year long requirement based on a students performance on the Reading Comprehension part of the ITED test designed to improve the students overall reading comprehension.**

The student will learn strategies and practice skills which increase reading comprehension. Skills include predicting, visualizing, summarizing, expanding vocabulary and drawing inferences. Independent reading is a critical component of the course. 25

CREATIVE WRITING (79)**Elective 1 credit 11,12**

The student will:

LANGUAGE AND LITERATURE SURVEY (78)**Elective 1 credit 11, 12**

The students will:

- * recognize the elements of literature in a variety of genres
- * examine genres of fiction and nonfiction
- * use correct spelling and standard grammar in formal, as well as, creative writing
- * develop vocabulary
- * identify and set goals to improve individual weaknesses in writing

INTRODUCTION TO THEATRE (222)

Elective 1 or 2 credits 9,10,11, 12

The students will learn fundamental elements of theatre productio.

The student will::

- * acquire a basic understanding of Theatre History
- * develop skills associated with an Introduction to Theatre
- * prepare and perform ensemble and monologue acting pieces
- * enhance their Improvisational skill set/
- * work with reflective journals
- * write group performance pieces.

Early Bird ICCC College Credit Class

COMPOSITION I (80)

Elective 1 High School credit/ 3 Semester College credits 11, 12

This course focuses on the process of writing expressive and informative prose. It introduces library research skills and critical thinking skills.

Early Bird ICCC College Credit Class

COMPOSITION II (81)

Elective 1 High School credit/3 Semester College credits 11, 12

Prerequisite: English I with a “C” grade or better.

This course is a continuation of ENG-101 (English I) with advanced work in library research techniques. The major focus is on persuasive and argumentative writing with an emphasis on critical thinking skills.

MATHEMATICS DEPARTMENT

MATH APPLICATIONS LEVEL A (108) & B (109)

Elective 2 credits 9, 10, 11, 12

The student will study and learn the following topics:

Decimal patterns and algebra, statistics: analyzing data, algebra: integers, algebra: linear equations and functions, fractions-decimals-percents, applying fractions, ratios and proportions, applying percents, probability, statistics and matrices, algebra: more equations and inequalities, algebra: linear functions and algebra: non linear functions and polynomials.

The next sequential course would be Pre-Algebra or Algebra I.

PRE-ALGEBRA A (112) & B (113)

Elective 2 credits 9, 10, 11, 12

The student will:

- *perform operations on integers
- *solve one-step equations and inequalities
- *perform operations on decimals
- *evaluate problems with exponents
- *perform operations with fractions
- *solve proportions
- *solve two-step equations and inequalities
- *graph lines 27

ALGEBRA I A (114) & B (115)

Elective 2 credits 9, 10, 11, 12

The student will:

- *know and apply the field properties of mathematics
- * use rational numbers, equations, and inequalities
- * use polynomials, factoring, and rational expressions
- * use functions, graphs of linear equations, systems of open sentences
- *use radical expressions and quadratics

ALGEBRA II A (116) & B (117)

Elective 2 credits 10, 11, 12

Prerequisite: Algebra I Recommended Prerequisite: Geometry NOT Basic Geometry

The student will:

- * solve linear and quadratic equations
- * manipulate polynomials
- * simplify irrational and complex numbers
- * solve problems involving triangles and other planar figures
- * apply ratios and proportions in problem-solving
- * evaluate logarithmic and exponential functions
- * work with probability and statistics
- * apply trigonometric relationships

BASIC GEOMETRY A (118) & B (119)**Elective 2 credits 10, 11, 12****Prerequisite: Algebra I**

The student will:

- * apply logic and problem-solving skills to any problem
- * solve problems involving triangles
- * use a compass and straight edge to draw figures
- * find the area and perimeter of planar figures
- * solve problems involving ratio and proportion and draw items to scale
- * use similarity to compare figures
- * relate lengths and angles in right triangles using trigonometry
- * work with other students to do group experiments and activities
- *learn basic trigonometry functions

GEOMETRY A (120) & B (121)**Elective 2 credits 9, 10, 11, 12****Prerequisite: Algebra I**

The student will:

- * use deductive reasoning to write two-column proofs
- * understand and use parallel line relationships
- * recognize and apply congruent triangles
- * classify and use polygons
- * use similar figures to develop proportions
- * apply basic right triangle trigonometry
- * know and use the Pythagorean Theorem and special right triangles
- * apply relationships of angles, arcs, and segments of circles
- * calculate area and volume of a variety of figures

PRE-CALCULUS A (122) & B (123)**Elective 2 credits 11, 12****Prerequisites: Advanced Geometry and Algebra II**

The student will:

- * use linear relations, functions, and graphs
- * solve systems of equations and inequalities
- * predict the behaviors of polynomial functions and other equations
- * apply trigonometric functions, graphs, and identities
- * use vectors, parametric equations, polar coordinates, and complex numbers

CALCULUS A (124) & B (125)**Elective 2 credits 12****Prerequisite: Pre-Calculus**

The student will:

- * use function and trigonometric functions to solve problems
- * understand limits and their properties
- * use and apply differentiation to related problems
- * use and apply integration to related problems
- * work with conics and polar coordinates in solving problems

SCIENCE DEPARTMENT

AGRICULTURAL SCIENCE A (229) & B(230)

Elective **2 credits** **9, 10**

The student will:

- *demonstrate problem solving techniques and proper measurement methods in the laboratory
- *explain entrepreneurship and develop an individual SAE program
- *enter a project in the State Agriscience Fair
- *explore the FFA and what it has to offer
- *complete an activity based curriculum on current animal production practices including selection, genetics, reproduction, digestion/growth, and processing
- **understand additional selected topics current and relevant to agriculture and FFA*

This course will fulfill a science credit.

PHYSICAL SCIENCE A (130) & B (131)

Elective **2 credits** **9, 10**

The student will:

- * demonstrate problem solving techniques and proper measurement methods in the laboratory
- * explain force, motion, acceleration, momentum and how they affect our everyday lives
- * describe matter and energy and its relationship to the environment
- * analyze elements and compounds and how they react in nature

BIOLOGY A (132) & B (133)

Elective **2 credits** **10, 11**

The student will:

- * apply the scientific method to solve problems
- * design and test hypotheses
- * analyze local and global environmental issues
- * learn proper use of a microscope in observing specimens
- * understand the cellular and genetic basis of life
- * discuss possible implications of current events in biology, such as cloning, genetic engineering, and advancements in health and medicine
 - examine the diversity of life on earth, through discussion and dissection of specimen

CHEMISTRY A (134) & B (135)

Elective **2 credits** **11, 12**

Prerequisite: Algebra I with 2 years of science

Students must have a scientific calculator

The student will:

- * analyze theories of atomic structures and chemical bonding of elements and compounds
- * discuss chemical and physical elements and compounds and how they react in nature
- * learn how to properly identify elements and compounds and to balance formulas and equations
- * discover organic compounds and how they relate to today's society
- * demonstrate proper laboratory techniques in a laboratory setting
- demonstrate problem-solving techniques and proper measurement methods in a laboratory

PHYSICS A (136) & B (137)

Elective 2 credits 11, 12

Prerequisite: Algebra II with 2 years of science Students must have a scientific calculator

The student will:

- * integrate the concepts of motion, force and vectors into society
- * assess how heat, light and sound affect our everyday world
- * discuss the role electricity and nuclear energy play in our world
- * demonstrate proper laboratory techniques in a laboratory setting
- * demonstrate problem solving techniques and proper measurement methods in a laboratory

HUMAN ANATOMY AND PHYSIOLOGY A & B (138 & 139)

Elective 2 credits 11, 12

Prerequisite: Biology Must have earned a C grade or better (or instructor's approval).

The student will:

- * describe the structure and function of various systems of the human body, including the skin, skeletal, muscular, nervous, special senses, circulatory, digestive, respiratory, urinary, and reproductive systems
- * demonstrate proper laboratory techniques when analyzing the structure and function of body tissues
- * dissect individual organs, such as the eye and heart, as well as a full mammalian specimen, such as a cat or a fetal pig
- * research and report on body systems and diseases related to the system
 - research careers related to the health care system, and discuss current advancements in the medical field

ENVIRONMENTAL SCIENCE (140)

Elective 1 credit 10, 11, 12

The student will:

- *discuss issues affecting natural resources
- *explore the ecosystems of Iowa
- *do nutrient testing of area waterways
- *examine the forestry issue
- * understand wildlife management practices
- * participate in taxidermy of a pheasant **This class fulfills a science credit.**

SOCIAL STUDIES DEPARTMENT

WORLD GEOGRAPHY (90)

Required 1 credit 9

The student will:

- * list the countries of North and South America, Europe, Asia, Africa and Australia
- * locate the countries on the map along with the capitals
- * locate the cities, mountains, rivers and other major geographic areas
- * compare land topography
- * examine climate in relation to longitude and latitude
- * differentiate cultures of the world
- * draw and explain the functioning of the many kinds of maps
- * determine reasons for weather and climate
- * explore the natural resources and economies of the regions
- * learn about the physical make-up of the earth

WORLD HISTORY A (91) & B (92)

Required 2 credits 10

The student will:

- * investigate the political, social, cultural, religious and economic development of the world
- * link past civilizations to present day ones
- * relate the importance of a nation's religion, economics and culture to its existence
- * trace the growth of industry and relate it to the many economic aspects involved in industrial growth
- * evaluate similarities in the rise and fall of the world powers from the Greeks to the Romans, through Germany, Russia and the United States
- * compare time periods and civilizations for similarities and differences
- * study extensively the wars of the 20th and 21st Century
- * cover and compare the major Revolutions of the World

AMERICAN HISTORY A (93) & B (94)

Required 2 credits 11

The student will:

- * uncover America's growth and change through the Industrial Revolution and Immigration
- * trace the U.S. to its role as a world power
- * examine historical events such as the Great Depression, The Cold War, the Great Society, Watergate, etc.
- * explore the growth and excitement of the U.S. from the 1920's to the 21st century

AMERICAN GOVERNMENT (100)

Required 1 credit 12

The student will:

- * explain the basic principles of American Government
- * describe the seven parts of the Constitution and its amendments
- * formulate good citizenship principles for personal use
- * participate in voting procedures in the United States
- * compare civil rights and freedoms in the United States with other countries
- * contribute as a member of the United States political community
- * learn about the three branches of government and their functions
- * learn about specific cultural responses to current social/political problems
- * examine the Constitution, Declaration of Independence and other important government documents

CURRENT ISSUES A (95)**Elective 1 credit 9, 10, 11, 12**

The student will:

- *Use a multitude of media resources to study all aspects of the news
- *Formulate opinions and express views on current social, educational and environmental issues
- *Research political, social, moral, educational, economic, and geographical issues of the past, present, and future.
- *Follow a series of general news stories on a variety of topics throughout the semester

This semester includes in- depth study projects which includes: human rights, Middle East conflicts, and creating current “live” newscast.

CURRENT ISSUES B (96)**Elective 1 credit 9, 10, 11, 12**

The student will:

- *Use a multitude of media resources to study all aspects of the news
- *Formulate opinions and express views on current social, educational, and environmental issues
- *Research political, social, moral, educational, economic, and geographical issues of the past, present, and future.
- *Follow a series of general news stories on a variety of topics throughout the semester

This semester includes in-depth study and projects that relates to globalization.

*Early Bird ICCC College Credit Class***INTRODUCTION TO PSYCHOLOGY (97)****Elective 1 High School credit/ 3 College Credits 11, 12****MAXIMUM ENROLLMENT OF 25**

This course includes the tools for the study of psychology, basic psychological processes, personality and social behavior, contemporary knowledge of motives, intelligence, learning and emphasis on the language of modern psychology

*Early Bird ICCC College Credit Class***INTRODUCTION TO SOCIOLOGY (98)****Elective 1 High School credit/ 3 College Credits 11, 12****MAXIMUM ENROLLMENT OF 25**

This course is a concise study of human behavior from the perspective of Sociologists. It will examine the ways in which social interaction, social processes, and social institutions comprise our sociological imagination. The course will also explore the ways that personality, status, role, class, gender, age, race, and ethnicity affect human interaction and institutions.

SPECIAL PROGRAMS

PERSONAL LIVING (TAG) (10)

Elective 1 credit 9, 10, 11, 12

Prerequisite: Identification as a TAG student

This class provides identified TAG students the opportunity to choose activities throughout the school year which will challenge them academically and meet their intellectual needs. Students may choose from the following academic opportunities:

- *College Exploration *Science Fair
- *College Portfolio Writing *Scholarship Searches/Application Writing
- *Career Exploration *Iowa Student Political Awareness Club
- *Young Scholars Program *ACT/SAT Study Groups
- *Know Your Constitution *Road Less Traveled Career Conference
- *Academic Decathlon *Service Learning
- *We The People
- *National History Day

EXPLORING ELEMENTARY EDUCATION (15)

Elective 1 or 2 credits 10, 11, 12

The student will:

- * develop awareness and related skills needed to work with elementary aged students by working a trimester in an assigned classroom at the elementary school.
- * work as an aide in the classroom with duties assigned by the homeroom teacher which could be: bulletin board work, reading to classroom, working with students one on one or in groups, correcting papers, or other duties as assigned.
- * gain awareness of elementary career options.
- *block two periods a day to allow for travel time to and from the elementary building.

LEADERSHIP (23)

Required 1 credit 9, 10, 11, 12

Course Objectives:

- *Improve overall development of the student: cognitive, emotional, behavioral.
- *Impress upon students the need for stronger character and moral development.
- *Improve communication and public speaking skills.
- *Develop critical thinking skills and decision-making skills.
- *Encourage students to demonstrate tolerance and respect for other people's viewpoints without feeling threatened or pressured to take them as their own.
- *Enhance study skills and discuss the importance of higher education.
- *Assign students weekly assignments aimed at understanding core components of the class.
- *Afford students ample opportunity to apply class concepts to their own lives.

VIRTUAL REALITY (222)

Required 1 credit 9, 10, 11, 12

The Virtual Reality Education Pathfinder (VREP) is an educational initiative that offers K-12 students an opportunity to develop and expand their learning across the curriculum by capturing student interest through the use of Virtual Reality and 3D. Students become self-motivated learners and mentors for their peers, choosing to create VR projects related to their own interests and for educational use within the VREP consortia. Student projects serve to both demonstrate the designer's competency on key national and state learning standards and to provide avenues for other students to better understand and demonstrate their learning against key standards.

ADVANCED PLACEMENT COURSES

AP U.S. HISTORY (102):

Elective 2 credits (3 College credits IF final test is passed and certain proficiency) 11, 12
\$87.00 fee to take final test

AP 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. This course has been authorized by the College Board to use the AP designation.

AP CHEMISTRY (143):

Elective 2 credits (3 College credits IF final test is passed and certain proficiency) 11, 12
\$87.00 fee to take final test

AP Chemistry builds students' understanding of the nature and reactivity of matter. After studying the structure of atoms, molecules, and ions, students move on to solve quantitative chemical problems and explore how molecular structure relates to chemical and physical properties. Students will examine the molecular composition of common substances and learn to predictably transform them through chemical reactions. The equivalent of an introductory college-level chemistry course, AP Chemistry prepares students for the AP Exam and for further study in science, health sciences, or engineering. This course has been authorized by the College Board to use the AP designation.

AP LANGUAGE & COMPOSITION (75):

Elective 2 credits (3 College credits IF final test is passed and certain proficiency) 11, 12
\$87.00 fee to take final test

In AP English Language and Composition, students learn to understand and analyze complex styles of writing by reading works from a variety of authors. They'll explore the richness of language, including syntax, imitation, word choice, and tone. They'll also learn about their own composition style and process, starting with exploration, planning, and writing, and continuing through editing, peer review, rewriting, polishing, and applying what they learn to a breadth of academic, personal, and professional contexts. The equivalent of an introductory college-level survey class, this course prepares students for the AP Exam and for further study in communications, creative writing, journalism, literature, and composition. This course has been authorized by the College Board to use the AP designation.

AP LITERATURE & COMPOSITION (83):

Elective 2 credits (3 College credits IF final test is passed and certain proficiency) 11, 12
\$87.00 fee to take final test

AP English Literature and Composition immerses students in novels, plays, poems, and short stories from various periods. Students will read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and class discussions to assess and improve their skills and knowledge. The course places special emphasis on reading comprehension, structural and critical analysis of written works, literary vocabulary, and recognizing and understanding literary devices. The equivalent of an introductory college-level survey class, this course prepares students for the AP Exam and for further study in creative writing, communications, journalism, literature, and composition. This course has been authorized by the College Board to use the AP designation.

AP PHYSICS (144)**Elective 2 credits (3 College credits IF final test is passed and certain proficiency) 11, 12****\$87.00 fee to take final test**

AP Physics B is a non-calculus survey course covering five general areas: Newtonian mechanics, thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. Students will gain an understanding of physics' core principles and then apply them to problem-solving exercises. They'll learn how to measure the mass of a planet without weighing it, find out how electricity makes a motor turn, and learn how opticians know how to shape the lenses for glasses. The equivalent of an introductory college-level course, AP Physics B prepares students for the AP Exam and for further study in science and engineering. This course has been authorized by the College Board to use the AP designation.

AP STATISTICS (128)**Elective 2 credits (3 College credits IF final test is passed and certain proficiency) 11, 12****\$87.00 fee to take final test**

AP Statistics gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results from another poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real world uncertainties, statistics plays an important role in many fields. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP Exam and for further study in science, sociology, medicine, engineering, political science, geography, and business. This course has been authorized by the College Board to use the AP designation.

MUSIC EDUCATION DEPARTMENT

BAND (40)

Elective .5 credits 9, 10, 11, 12

Credits earned in band will be included in the student's GPA

The student will:

- * Band is a year-long course
- * produce a good characteristic sound on his/her instrument
- * demonstrate proper techniques of sitting, standing, hand position, and proper breathing
- * use terms for dynamics, tempos, and styles
- * perform the scales that form the basis of musical composition
- * recognize different styles and types of music as well as music from different cultures
- * develop an understanding of, and an appreciation for, all types of music

CONCERT CHOIR (42)

Elective .5 credit 9, 10, 11, 12

Credits earned in Concert Choir will be included in the student's GPA

Year course open to grades 9-10 who are not placed in the treble clef choir. Students will build on their knowledge of music theory, music history, and sight singing. Members of the ensemble will study musical styles from various historical periods, diverse cultures, and sing in a variety of languages. Music is chosen as appropriate to match the developmental level of each performing group. Participants will perform at school concerts at least once each quarter and State Large Group Festival. Participants will also have the opportunity to perform at State Solo/ Small ensemble Festival. Students should strive to have voice lessons either outside the school or with the choir director, after, or during school. Lessons given with the choir director will have no additional charge. The basics of posture, breathing, and vocal production are stressed along with basic music reading skills.

The following units will be covered *in each choir* during the course of the school year:

The student will:

- use correct singing posture
- use proper breathing technique
- work towards supporting a pleasing tone
- strive to produce accurate pitch
- sing both melody and harmony
- use Solfege in sight training, ear training
- produce a clear enunciation of consonants in text
- work towards correct vowel formation for different time periods in history and language
- use critical listening skills
- research history as it relates to the music being studied in class
- observe cultural differences of composers and how it relates to singing style

MUSIC THEORY I (43)

Elective 1 credit 10, 11, 12

This class is designed to help build an understanding for the basic building blocks of music. The class will use basic piano skills to develop a structure for music. No music background needed.

PHYSICAL EDUCATION DEPARTMENT

PHYSICAL EDUCATION Day #1 (20) or PHYSICAL EDUCATION Day #2 (21) required .5 CREDITS PER TRIMESTER

Physical education is a valuable part of the total educational process because it contributes to the development of the whole individual. Physical education offers mental preparation and considerable social interaction.

The student will:

- * assess physical development and well-being
- * develop skills and physical abilities
- * develop leisure-time activities
- * examine personal, social and cultural values
- * develop an appreciation for personal fitness

Activities:

- * Archery * Matt Ball
- * Basketball * Pickle Ball
- * Lacrosse * Ping Pong
- * C.P.R. * Volleyball
- * Flag Football * Weight Training
- * Floor Hockey * Wiffle Ball
- * Frisbee Golf * Cross Country Skiing
- * Bowling * Body Composition Testing
- * Winter Survival Kit

ZERO HOUR PHYSICAL EDUCATION (22) 10, 11, 12 MAXIMUM ENROLLMENT OF 30

Zero hour physical education was developed to meet the needs of the student who is taking a heavy class load. The class itself is focused on individual wellness programs, personal safety, and other health issues along with physical fitness and goal setting.

Zero hour physical education students are responsible for their own transportation to off-campus physical education activities.

The zero hour physical education class meets from 7:00-8:00 one day a week, currently on Thursday, for the full year.

WEIGHT TRAINING (24 / 25)

Elective .5 credit 9, 10, 11, 12

This is an elective course but it does not replace the 4 semesters of required Physical Education without permission of the Physical Education Teacher and the High School Principal. This class would be limited to 27 students with preference by seniority.

The student will

- * be required to lift the MNW 3 –Day Lifting Program.
- * maintain records of individual lifting program.
- * develop/present/study different aspects of leadership and it affects.
- * develop an appreciation for the benefits of strength training and leadership.