



Course  
Registration  
Booklet  
2022-2023

## Information Sheet

Directions: Registration is to be completed by students with staff and parent input.

An important duty and responsibility of each student and his/her parents is to make course choices for their educational careers. Certain courses are required to meet graduation requirements as established by Iowa code and by the Edgewood-Colesburg Board of Education.

This student registration booklet contains information about graduation requirements and course offering descriptions. Specific course offerings may vary from year to year depending on (1) staff availability and (2) students' registration wishes.

The registration form, complete with student and parent signatures, is to be returned to the high school office. The registration will remain in force unless it is approved for change by the building principal.

Requirements: 54 credits are required for graduation from Edgewood-Colesburg High School. The following courses must be taken and passed.

- |                       |  |            |
|-----------------------|--|------------|
| 1. English            | 8 credits - English 9 (2 credits), English 10 (2 credits), English 11 (2 credits), speech (1 credit), plus 1 elective.....                 | page 17-20 |
| 2. Parenting          | - one credit - 11th grade.....   | page 22    |
| 3. Health             | - one credit - 9 <sup>th</sup> grade.....  | page 22    |
| 4. Physical education | - Four years - .....   | page 23    |
| 5. Math               | 8 credits .....  | page 23-25 |
| 6. Science            | 6 credits - Physical Science (2 credits), Conceptual Chemistry (2 credits), Biology (2 credits).....                                       | page 27-30 |
| 7. Social Studies     | 6 credits - U.S. History (2 credits), World History (2 credits), American Government (1 credit), Economics (1 credit).....                 | page 30-34 |
| 8. Vocational         | 2 credits-Employability Skills ("Job Shadowing") (1 credit), and either Principles of Money (1 credit) or Personal Finance (1 credit)..... | page 35-36 |

Schedule Conflicts: the guidance counselor and/or principal will work out scheduling conflicts with the student following registration. Not all conflicts will be resolved to the complete satisfaction of the student.

Course selections, as they relate to educational and career goals, are most important. Students and parents (along with the assistance of school personnel) need to become involved in career decision planning. Many post-high school educational and training institutions have specific entrance requirements which students need to consider when making high school class selection decisions.

<b>Elective courses by grade</b>			
<b>9<sup>th</sup></b>	<b>10<sup>th</sup></b>	<b>11<sup>th</sup></b>	<b>12<sup>th</sup></b>
	Intro to Health Care	Intro to Health Care	Intro to Health Care
	Nurse Aide I & II	Nurse Aide I & II	Nurse Aide I & II
		Medical Term.	Medical Term.
		Nutrition	Nutrition
		Dosage Calc.	Dosage Calc.
			Healthcare Compliance
	Medical Law & Ethics	Medical Law & Ethics	Medical Law & Ethics
		Human Body	Human Body
	Autos I	Autos I	Autos I
		Autos 2	Autos 2
		Autos 3	Autos 3
		Industrial Welding	Industrial Welding
Intro to Ag	Intro to Ag	Intro to Ag	Intro to Ag
	Animal Science	Animal Science	Animal Science
	Basic Ag Mechanics	Basic Ag Mechanics	Basic Ag Mechanics
	Principles of Agronomy	Principles of Agronomy	Principles of Agronomy
	Welding I	Welding I	Welding I
	Farm Business	Farm Business	Farm Business
	Survey of Animal	Survey of Animal	Survey of Animal
Horticulture	Horticulture	Horticulture	Horticulture
Landscaping	Landscaping	Landscaping	Landscaping
Natural Resources	Natural Resources	Natural Resources	Natural Resources
2D Art	2D Art	2D Art	2D Art
3D Art	3D Art	3D Art	3D Art
Graphic Arts	Graphic Arts	Graphic Arts	Graphic Arts
Graphic Arts II	Graphic Arts II	Graphic Arts II	Graphic Arts II
	Adv. Graphic Design	Adv. Graphic Design	Adv. Graphic Design
	Arts & Ideas	Arts & Ideas	Arts & Ideas
	Arts History & App.	Arts History & App.	Arts History & App.
		Advanced Art I & II	Advanced Art I & II
Desktop Publishing	Desktop Publishing I & II	Desktop Publishing I & II	Desktop Publishing I & II
	Digital Photography	Digital Photography	Digital Photography
	Intro to Comp. Bus.	Intro to Comp. Bus.	Intro to Comp. Bus.
Computer Science Principles I & II	Computer Science Principles I & II	Computer Science Principles I & II	Computer Science Principles I & II
Intro to Bus.	Intro to Bus.	Intro to Bus.	Intro to Bus.
Marketing – Dig. Multimedia	Marketing – Dig. Multimedia	Marketing – Dig. Multimedia	Marketing – Dig. Multimedia
Business Law	Business Law	Business Law	Business Law
	Accounting I	Accounting I & II	Accounting I & II
	Entrepreneurship	Entrepreneurship	Entrepreneurship
	Speech	Speech	Speech
	Professionalism in Workplace	Professionalism in Workplace	Professionalism in Workplace

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
	Customer Service Strategies	Customer Service Strategies	Customer Service Strategies
	Creative Writing	Creative Writing	Creative Writing
		Comp I & II	Comp I & II
	Investigative Writing	Investigative Writing	Investigative Writing
Enjoying Non-fiction	Enjoying Non-fiction	Enjoying Non-fiction	Enjoying Non-fiction
	British Lit	British Lit	British Lit
	Contemporary Lit	Contemporary Lit	Contemporary Lit
	Individualized Reading	Individualized Reading	Individualized Reading
		Intro. To Literature	Intro. To Literature
Clothing & Textiles	Clothing & Textiles	Clothing & Textiles	Clothing & Textiles
Clothing & Textiles II	Clothing & Textiles II	Clothing & Textiles II	Clothing & Textiles II
Foods	Foods	Foods	Foods
Foods II	Foods II	Foods II	Foods II
	Foods III	Foods III	Foods III
Adv. Health	Adv. Health	Adv. Health	Adv. Health
		College Prep Chem.	College Prep Chem.
		College Prep Physics	College Prep Physics
		Environmental Science	Environmental Science
			Adv. Biotechnology
			Human Biology
	Exploring Science	Exploring Science	Exploring Science
	Earth & Space Science	Earth & Space Science	Earth & Space Science
Current Events	Current Events	Current Events	Current Events
	Social Problems	Social Problems	Social Problems
	Psychology	Psychology	Psychology
America at War I	America at War I	America at War I	America at War I
America at War II	America at War II	America at War II	America at War II
Ethnic History	Ethnic History	Ethnic History	Ethnic History
	The 1960s	The 1960s	The 1960s
	Street Law	Street Law	Street Law
		AP US History	AP US History
Spanish I	Spanish I & II	Spanish I, II & III	Spanish I, II, III & IV
	Personal Finance	Personal Finance	Personal Finance
		Employability Skills	Employability Skills
			Work Study
			Peer Tutoring
Instrumental Music	Instrumental Music	Instrumental Music	Instrumental Music
Vocal Music	Vocal Music	Vocal Music	Vocal Music
Early PE	Early bird PE	Early bird PE	Early bird PE
		Pre-Calculus	Pre-Calculus
		Calculus	Calculus
		AP Calculus	AP Calculus
		Statistics	Statistics
		Principles of Money	Principles of Money

## Postsecondary Enrollment Option

The Postsecondary Enrollment Option Act (Chapter 261 C, Iowa Code) was enacted in 1987 to promote rigorous academic pursuits and to provide a wider variety of options to high school students by enabling eleventh and twelfth grade students to enroll part time in nonsectarian courses in eligible postsecondary institutions of higher learning in Iowa.

The student enrolled a college or community college course will receive high school and college credit for the course work. The credit received will appear on the student's transcript and figured into the student's GPA. Students are responsible for their own transportation, if applicable, and any equipment required for the course, i.e., tools, computers, calculators, books, etc.

- I. Student Eligibility
  - A. Junior and senior students who are enrolled in high school.
  - B. Student must be proficient on Iowa Assessments in Reading, Math and Science
- II. Course Requirements
  - A. Students may be required to meet entrance requirements. Requirements may include prerequisite courses, ACT scores, or minimum grade point.
  - B. Students must take the course(s) for credit. They cannot audit a course. (Take for high school credit but not college credit.)
  - C. Students may not enroll in a course if a comparable course is offered at their high school.
  - D. Course must be nonsectarian.
- III. Eligible Postsecondary Schools
  - A. See the counselor for a list of eligible schools.
  - B. Not all courses offered by these institutions are eligible for participation.
- IV. Application Procedures
  - A. Students must inform the Ed-Co administration of their intent to participate.
  - B. See Mrs. Voss or the counselor for details on applying.
- V. Students may be required to submit a check to the school for \$250 if the course is not successfully completed, failed or dropped after the first week of class.

## On-Line AP Courses

If interested in on-line AP courses, see the counselor for more information. These courses are available at no cost to the student. Available courses are:

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

## Health Consortium Classes Online

Some of the following courses require that students meet proficiency guidelines. Talk to the counselor or principal to see if you meet the guidelines.

In order to take the Nurse Aid I & II, the following courses are required as prerequisites: Intro to Healthcare, Nutrition, Dosage Calculations, Medical Law and Ethics and Medical Terminology (taken in conjunction with Nurse Aide). See table below for scheduling purposes.

<b>Fall</b>	<b>Spring</b>
Sophomore Year	
	Intro to Healthcare
Junior Year	
Medical Law & Ethics & Dosage Calculations	Nutrition
Senior Year	
Medical Terminology & Nurse Aid	

### **Intro to Health Occupations-3 NICC Credits**

1 Semester-1 Ed-Co Credit

Course number: 1                      SCED Code: 14001                      Grades 10, 11, 12

Orientation to the institutions that make up our health care system and the ethical, legal, and safety issues influencing and regulating health practice and maintenance. Emphasizes need for communication and teamwork as well as technical skills necessary in the health care workforce.

### **Nurse Aide I/Nurse Aide II- 3 NICC Credits**

1 Semester-1 Ed-Co Credit

Course number: 2                      SCED Code: 14051                      Grades 11, 12 – must be 16 by 10/15

Prerequisite: Accuplacer score of 231 or ACT reading score of 15

\*Required to take the CNA Exam

The course is designed to provide the knowledge and practical skills necessary to provide care and service to residents in long term care facilities. A clinical rotation is included to provide students with an opportunity to experience direct care of the patient. Students completing this course will be eligible to take the state licensure examination for nurse aide certification. The course requires some weekend and after school hours.

These courses are required by all colleges as prerequisites to get into the nursing programs.

### **Medical Terminology-4 NICC Credits (taken in conjunction with Nurse Aid I & II)**

1 Semester-1 Ed-Co Credit

Course number: 3                      SCED Code: 14154                      Grades 11, 12

The study of medical terminology is the language of medicine with emphasis on spelling, pronunciation and usage. This class is beneficial to all students considering a career in health care.

### **Nutrition-2 NICC Credits**

1 Semester-1 Ed-Co Credit

Course number: 4                      SCED Code: 14254                      Grades 11, 12

This course emphasizes a practical knowledge of good nutrition and some knowledge of diet therapy. It includes a background of adequate and accurate information on basic nutritional needs of the body. It meets most two year nursing program and basic coaching certificate requirements.

### **Dosage Calculations- 1 NICC Credit**

1 Semester-1 Ed-Co Credit

Course number: 5 SCED Code: 14254

Grades 11, 12

Prerequisite: ALEKS score of 14 or ACT of 16

A review of fractions and decimals, conversions of metric, apothecary, and household units, and computations of drug dosages.

### **Healthcare Compliance -1 NICC Credit**

1 Semester-1 Ed-Co Credit

Course number: 280 SCED Code:14063

Grade 12

Designed to meet the compliance requirements for students entering nursing and allied health programs. This course is divided into units covering the compliance areas of Health Insurance Portability and Accountability Act (HIPAA), Bloodborne Pathogens, Healthcare Provider CPR (Basic Life Support), Basic First Aid and Child and Dependent Adult Mandatory Reporter.

### **Medical Law and Ethics-1 NICC Credit**

1 Semester-1 Ed-Co Credit

Course number: 281 SCED Code: 14003

Grade 10, 11, 12

Course will provide the student to the legal and ethical implications of practice in a medical setting. Issues covered will include scope of practice, confidentiality, HIPAA privacy and security requirements, legal terms and elements in the delivery of care, ethical guidelines of practice, and legal documentation requirements.

### **Human Body: Health and Disease-3 NICC Credits**

1 Semester-1 Ed-Co Credit

Course number: 282 SCED Code: 14999 Grade 11, 12

Prerequisite: C- or better in HSC:114 (Medical Terminology) and C- or better in BIO:168 (Human A&P I).

\*Required Course for Medical Assistant Practicum.

The study of the human body relating to disease processes and treatment options. Includes an overview of drug categories in the treatment of diseases.

### **Other online classes**

There are a wide variety of high school and AP classes available to us each year. The courses change yearly and are too numerous to list, if there is an area of study or course that you would be interested in taking please check with the high school office for more information.

### **Testing info:**

ALEKS student accounts are valid for one year. Students may take up to five assessments during that time. ALEKS placement scores are valid for two years. Students are required to wait 48 hours before retaking ALEKS and Accuplacer assessments. ALEKS cost is \$15.

## Courses at West Delaware

### **Auto Technology 1-NICC Credit**

Block Class-2 Ed-Co Credits

1 Semester

Course number: 6

SCED Code: 20103

Grades 10, 11, 12

The course deals with the "how it works" of component parts and systems. An overall view of inspection and maintenance is a major goal. Repair of components is done on an "as needed" basis depending on skill level. Wiring diagrams and electric meter usage are introduced along with the basic engine components and operation. Students need to provide their own transportation.

### **Auto Technology 2 - Electronic and Fuel Systems-1 NICC Credit**

Block Class-2 Ed-Co Credits

1 Semester

Course number: 7

SCED Code: 20104

Grades 11, 12

Prerequisite: Autos 1

The course will start with the automotive electrical systems of starting, charging, and ignition. These systems will be tested and diagnosed working with technology common in maintenance and repair of today's transportation vehicles. We will then proceed to fuel delivery systems ranging from carburetion to electronic fuel injection. The course is designed to bring all of these systems together as they tie into the computer and its control of the car. The end result will be the ability to diagnose and tune today's engines. Personal and privately owned vehicles are used to apply various manipulative skills in the use of laboratory equipment and tools. Students need to provide their own transportation.

### **Auto Technology 3 - Mechanical Systems- 1 NICC Credit**

Block Class-2 Ed-Co Credits

1 Semester

Course number: 8

SCED Code: 20106

Grades 11, 12

Prerequisite: Autos 1

The course covers the disassembly and assembly techniques common on today's transportation vehicles in the repair process. During the course we will test, diagnose and repair automotive engines, brakes, suspensions, or power transmission units. Overhaul of any one of the above components will become your major project. School equipment may be used. Students need to provide their own transportation.

### **Industrial Welding-3 NICC Credits**

Block class-1 Ed-Co Credit

1 Quarter

Course number: 22

SCED Code 13207/13208

Grades 11, 12

Prerequisite: Welding I

Introduces the concept and practice of blueprint interpretation as needed by welders in an industrial setting. Emphasis is on the basics of interpretation and application in specific situations. Studies the history and principles of material cutting as well as the nomenclature of the equipment. Procedures such as cutting, beveling plates, and scarfing plates are practiced.



## **Agricultural Education**

The Agricultural Education Program at Edgewood-Colesburg High School is a sequence of courses leading to entry-level skills in the job area or postsecondary credit at either a two-year community college or a four-year university. Classes could lead to a variety of occupational fields.

Some classes within the vocational agriculture program may be articulated with community colleges. Check with your instructor and/or guidance office if you are interested in seeking this advanced standing.

### **Introduction to Agricultural Education**

2 Semesters- 2 credits

Course number: 11

SCED Code: 18001

Grades 9, 10, 11, 12

This is a beginning course for students interested in agricultural related areas. This course offers both farm-oriented students and interested students a general understanding of agriculture and agribusiness. Careers in all areas of agriculture will be explored. Students will have the opportunity to develop their leadership and speaking skills in this class.

Highlighted by a series of lab-oriented learning experiences, emphasis is placed on a variety of career options, basic agricultural management principles, introductory concepts of animal science, and crop and soil science. Students will use several different sources of information beyond the textbook. Advanced leadership skills will also be developed in this course. A worthwhile learning experience is gained because students will look into areas of mutual interest.

### **Introduction to Animal Science**

1 Semester - 1 credit

Course number:10

SCED Code: 18101

Grades 9, 10, 11, 12

This course includes the care and management of companion and farm animals. Topics include: animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, research, qualitative and quantitative analyses as a basis for decision making, and marketing. Students may study a particular species, or they may learn how to care for and maintain livestock as a more inclusive study.

### **Basic Agricultural Mechanics**

1 Semester - 1 credit

Course number: 13

SCED Code: 18401

Grades 10, 11, 12

Basic Agricultural Mechanics: Agriculture Mechanics provides students with the skills and knowledge that are specifically applicable to the tools and equipment used in the agricultural industry. While learning to apply basic industrial knowledge and skills (engine mechanics, power systems, welding and carpentry, among others), students may explore a broad range of topics, including the operation, mechanics and care of farm tools and machines; the construction and repair of structures integral to farm operations; a study of electricity and power principles; and safety procedures.

### **Survey of the Animal Industry (Animal Health)-4 NICC Credits**

1 Semester -1 credit

Course number: 14

SCED Code: 18101

Grades 10, 11, 12

Prerequisite: Introduction to Animal Science

Introduces students to the various species and breeds of domestic animals and to create an understanding of the principles of food animal production, product marketing, and issues confronting the animal industry

### **Principles of Agronomy (Crop Production/GPS-GIS)-3 NICC Credits**

1 Semester -1 credit

Course number: 15

SCED Code: 18051

Grades 10, 11, 12

This course is designed to provide students the basic concepts in crop growth and physiology. Topics covered in this class will be: crop plant anatomy, classification and identification, soils, tillage and seeding, plant breeding, seed and grain quality, weeds, insects, diseases and harvesting and storage. Along with class there will be many hands-on labs dealing with Global Positioning Systems (GPS), grain identification, and soil testing and identification.

### **Welding I**

1 Semester - 1 credit

Course number: 16

SCED Code: 18404

Grades 10, 11, 12

This course is to familiarize students with basic metallic arc and oxy-acetylene welding processes used in industry. The course consists of exercises, materials and equipment used in the shielded metallic arc welding process in gas welding, brazing, and flame cutting. Basic techniques will be learned in uses of arc, oxy-acetylene, and MIG welding equipment, selection of electrodes, types of metals, various positions, and quality welds. Soldering and other special welding processes will be discussed.

### **Farm Business Management- 3 NICC Credits**

1 Semester -1 credit

Course number: 17

SCED Code: 18201

Grades 10, 11, 12

This course will cover all the aspects of farm decision-making, including record keeping, budgeting, and year-end analysis enterprise analysis and tax management. Students will understand the economic principles to making business decisions, how to evaluate the performance of a business and the budgeting process. Students will better understand the resources required in business. Areas to cover include: Farm management, depreciation, income sheets, balance sheets, budgeting, risk management and farm investments.

### **Horticulture**

1 Semester - 1 credit

Course number: 18 SCED Code: 18052

Grades 9, 10, 11, 12

The course is designed to create an understanding of horticultural careers and develop some basic skills in a variety of areas. These areas may include: plant propagation, integrated pest management, container-grown plants, landscaping, lawns and turf grass, vegetables and fruit garden, and holiday and floral designs. Many hands-on activities will be done during the various sections of the course, depending on the Semester that the course is offered. Additional hands-on projects will be available with the greenhouse.

### General Objectives

- 1) To develop an interest in and explore career areas in horticulture.
- 2) To understand the importance of horticulture.
- 3) To develop skills that are important in the field of horticulture.

### **Landscaping Introduction**

1 Semester - 1 credit

Course number: 19

SCED Code: 18054

Grades 9, 10, 11, 12

This course is designed to create an understanding of the landscaping industry and develop some basic skills in a variety of areas. These areas may include: using plants in the landscape, principles of landscaping, techniques of pruning, and lawn establishment and maintenance. There will be hands-on activities that may include designing and completing a home and school landscaping project in the class.

### General Objectives

- 1) To develop an interest and explore career opportunities in landscaping.
- 2) To develop introductory skills important to the field of landscaping.
- 3) Design a plan for a landscaping project.

### **Natural Resources**

1 Semester - 1 credit

Course number: 20

SCED Code: 18504

Grades 9, 10, 11, 12

This course is designed to create an understanding of our natural resources and the concepts of natural resources management. Topics to be discussed are fish and wildlife resources-game management, forestry resources-products and management, energy and mineral resources-metals and minerals, outdoor recreation, water management, and careers in natural resources. Students will discover the importance of our natural resources.

## **Art**

### **Two-Dimensional Art: Drawing and Painting**

1 Semester - 1 credit

Course number: 26

SCED Code: 05155

Grades 9, 10, 11, 12

Drawing and painting are the primary focus of this class, but we may also do some printmaking and wood burning. Students will do a variety of drawings using pencil, colored pencil, oil pastels, and ink. Painting will include watercolors and acrylics. Students will learn how to apply the elements and principles of design to their artwork while learning how to be creative through self-expression. Students will be required to complete sketches within a sketchbook prior to starting their projects. The sketches will include technique studies along with development of project ideas. Students will self-reflect verbally and when completing project rubrics. Some art history may be discussed to better understand these artistic processes.

### **Three-Dimensional Art: Sculpture and Ceramics**

1 Semester - 1 credit

Course number: 27

SCED Code: 05159

Grades 9, 10, 11, 12

Three-dimensional shape and form will be explored through sculpture and ceramics. Students will work with clay and will create several hand-built clay projects. Students will be challenged to address the elements and principles of designs when constructing their three-dimensional projects. Other sculptural works of art will be created using a variety of materials. Students will be required to sketch out their ideas. Students will self-reflect verbally and when completing project rubrics. Some art history may be included to help students understand the processes better.

### **Arts and Ideas**

1 Semester - 1 credit

Course number: 28

SCED Code: 05154

Grades 10, 11, 12

Prerequisite: 2D & 3D Art

Arts and Ideas primary focus is to look at different concepts in art. Some may be current art movements or past art movements. Other projects may focus on current events that are impacting the students or society. The students will be challenged to create art that gets a point or an idea across. There is a possibility of having group projects in this class. Various materials will be used, therefore students may be asked to find or supply some of their own materials to complete a project. Students will reflect on the project making processes verbally and through the completion of a rubric.

\*Students may be asked to supply some materials.

### **Graphic Arts**

1 Semester - 1 credit

Course number: 29

SCED Code: 05162

Grades 9, 10, 11, 12

In Graphic Arts, students will learn how to use Adobe Photoshop to edit and alter photographs. Students will also learn how to create their own graphics (art) and images using Photoshop. While learning this program, students will get an insight of what it's like to be a new aged photographer and graphic designer. Students will complete various lessons and relevant projects that use Adobe Photoshop. Students may be required to do some digital photography as well to complete their projects. This course is prerequisite for Desktop Publishing.

### **Graphic Arts II**

1 Semester - 1 credit

Course number: 33

SCED Code: 05162

Grades 9, 10, 11, 12

Prerequisite: Graphic Arts I

In Graphic Arts II, students will learn how to use Adobe Illustrator to create advanced graphic arts using the computer. Students will be able to use and apply knowledge of Adobe Photoshop that was gained in Graphic Arts I as well to complete projects. While learning these programs, students will get an insight of what it's like to be a graphic designer. Students will complete various lessons and relevant projects that use Adobe Illustrator. Students may be required to do some digital photography and use Photoshop as well to complete their projects.

### **Advanced Graphic Design**

1 Semester-1 credit

Course No: 30      SCED Code: 05162      Grades 10, 11, 12

Prerequisite: Graphic Arts I & II

Advanced Graphic Design is an extension to Graphic Arts I & II. The students will continue to use Photoshop and Illustrator in creating advanced projects. The projects will be more challenging with a focus on real world experiences such as logo creation, ad designing, and other marketing materials. There will be more emphasis on layout, typography, and other design elements that are pertinent for successful designs. This class is recommended for students pursuing a graphic design or marketing degree or for those that may want to start their own business.

### **Art History and Appreciation**

1 Semester-1 credit

Course No: 30      SCED Code: 05153      Grades 10, 11, 12

Prerequisite: 2D & 3D Art

Art History and Appreciation will touch on various art movements, with a focus on art from North America and Europe. Students will be required to participate in discussions and work collaboratively to find information about particular artists. Appreciation for art will be covered, while learning about different art periods. We will look at different reasons for why people favor a piece of art.

### **Advanced Art I & 2: Independent Study**

1 Semester - 1 credit

Course number: 31 and 32 SCED Code: 05170      Grades 11, 12

Prerequisite: 2D, 3D Art, Arts and Ideas. Graphic Arts

Advanced art students are allowed to experiment in desired areas. They are required to complete up to eight well thought out projects that show artistic expression. Students may focus on one area of expression such as drawing, painting, ceramics, cartooning, architecture, etc., or they may explore several areas as time allows. Students will have to show their growth throughout the course by completing an electronic art portfolio that focuses on the four standards: creating, presenting, reflection, and connection. This art portfolio will include writing components such as a biography, artist statement, and self-reflections. This class is for those who are serious about art and are willing to put hard work and their best effort into all that they do. Juniors and seniors interested in pursuing a further education/career in art will be guided in the development of a personal and professional portfolio.

### **Desktop Publishing**

1 Semester – 1 credit

Course number: 38      SCED Code: 11152      Grades 9, 10, 11, 12

Prerequisite - Graphic Arts

This course focuses on developing and refining artistic techniques and work for presentation. The year begins by planning and designing a unifying theme that uses the graphic design principles to show the best representation for our student body and events of each school year. Students will connect artistic ideas and works that reflect the culture and context of the school, students, and community through emphasis on layout and design techniques, creative writing, and photography skills. This course provides the study of and practice in gathering and analyzing artistic information to be applied through graphic design, creative writing, and the selection of photographs that best represent the student body. Students will learn critiquing and design strategies that focus on images, cutouts, and placements of color within

each section. At times, deadlines require that staff members work outside of school hours. Students will learn good work habits that come with the graphic design process and are responsible for all phases of the production and presentation of the yearbook.

### **Desktop Publishing II**

1 Semester - 1 credit

Course number: 39

SCED Code: 11152 Grades 10, 11, 12

Prerequisite: Desktop Publishing

This is an extension of Desktop Publishing. Requirements and tasks will be the same as Desktop Publishing, but students taking this course will be required to take leadership roles within the class. Duties for this course may be in charge of critiquing, photography, and/or finalizing the design of the book using graphic design principles. Leadership roles will be decided based on strengths seen in Desktop Publishing and interest.

### **Digital Photography**

1 Semester - 1 credit

Course number:

SCED Code: 05167 Grades 10, 11, 12

Prerequisite: Graphic Arts

Digital Photography is a semester course that focuses on understanding the basic operations and functions of a digital single lens reflex camera and the manipulation of its settings to achieve a specific result. Students will learn about photographic elements of art and principles of design, composition, camera angles, and lighting. They will have access to different SLR cameras to explore. Students will write and speak about aesthetic, technical and expressive qualities in a photograph, learning to critique their own and others work. Students learn image techniques and digital manipulation using Adobe Photoshop and Lightroom, teaching them how to archive, organize and optimize their photographs for print or web purposes. Students will learn how to manage and creatively alter digital images as well as critically analyze the use of visual media as a means of communication. They will be provided a greater level of autonomy, expected to pursue their own interests and develop an individual voice through the creation of a portfolio that displays their photographs.

## **Business Education**

### **Computer Science Principles I**

1 Semester - 1 credit

Course number: 37

SCED Code: 10011

Grades 9, 10, 11, 12

Computer Science Principles I introduces students to computer science concepts and challenges them to explore how computing and technology can impact the world. Students will explore concepts around digital information, the internet, app design, and complex apps.

### **Computer Science Principles II**

1 Semester - 1 credit

Course number: 36

SCED Code: 10011

Grades 10, 11, 12

Prerequisite: Computer Science Principles I

Computer Science Principles II is a continuation of Computer Science I. Students will explore designing algorithms, parameters, creating performance tasks, data analysis, cyber security, and global impacts. After completion of this course students are able to take an AP Computer Science exam.

## **Marketing through Digital Multimedia**

1 Semester – 1 credit

Course Number: 40 SCED Code: 11153

Grades 9, 10, 11, 12

igital Multimedia will prepare students for the creative workplace by covering how to use business-standard software applications to complete projects and solve problems. From the creation of a product until it reaches the end consumer, today's businesses are rapidly advancing technologically. Knowledge of various digital medias and how they work together in a business is a necessary skill today. The hands-on approach gives students a strong foundation in the concepts and practices of digital multimedia and allows the projects to focus on the more creative end of business technology. Intro to Computer Business Applications and/or Computer Formatting recommended before taking this class.

## **Introduction to Business-4 NICC Credits**

1 Semester –1 credit

Course number: 41

SCED Code: 12051

Grades 9, 10, 11, 12

Exposes students to the role of the bookkeeper, manager, and junior accountant in relation to the many facets of the business world, including the economic system, marketing functions such as sales, production, and finance, and types of business organizations.

## **Business Law**

1 Semester – 1 credit

Course number: 42

SCED Code: 12054

Grades 9, 10, 11, 12

Business Law covers the basic foundations of law as it pertains to the business world. Incorporated throughout the text are features and activities covering critical thinking, global awareness, vocabulary building, business math, career possibilities, and technology innovations. This class may also include various guest speakers and a field trip to view the law "in action."

## **Accounting I- 4 NICC Credits**

1 Semester-2 credits

Course number: 43

SCED Code: 12104

Grades 10, 11, 12

Prerequisite: ALEKS score of at least 14 or ACT of 16

Everyone will need knowledge of accounting in personal financial activities. Accounting I is important to students because it provides background for a variety of career objectives.

Accounting is the language of business; therefore, Accounting I is an excellent course for students interested in the following:

- 1) Any business or agribusiness related field
- 2) Careers in any accounting field including bookkeepers, accounting clerks, accountants, and CPAs.

The course is divided into six main units.

- 1) Accounting as a career.
- 2) Accounting for a one-owner business.
- 3) Accounting for a partnership.
- 4) Accounting for a corporation.
- 5) Computerized accounting.
- 6) Accounting control systems such as petty cash, vouchers, inventory, etc.

Realistic simulations are used giving the students the feeling of what it's actually like doing accounting and or record keeping for a service business, a merchandising business and a corporation.

## **Accounting II**

1 Semester-1 credit

Course number: 44                      SCED Code: 12104                      Grades 11, 12

Prerequisite: Accounting I with a grade of C or better.

Additional study of accounting fundamentals, including inventories, acquisition of plant assets, depreciation of plant assets, disposal of plant assets, and liabilities.

## **Introduction to Entrepreneurship-3 NICC Credits**

1 Semester-1 credit

Course number: 45                      SCED Code: 12053                      Grades 10, 11, 12

A survey course designed to orient students toward the multi-dimensions of a career in entrepreneurship. Explores entrepreneurial qualities, assessment of various funding sources, strategic planning for entrepreneurial ventures, and legal and contemporary business environment issues.

## **Professionalism in the Workplace-3 NICC Credits**

1 Semester-1 credit

Course number: 143                      SCED Code: 12999                      Grades 10, 11, 12

Designed to make students aware of their personal strengths and identify areas for improvement. Concentrates on helping students develop marketable personal and professional skills. Presents strategies to assist students in maintaining employment and in demonstrating a professional image and work behavior.

## **Customer Service Strategies-3 NICC Credits**

1 Semester-1 credit

Course number: 144                      SCED Code: 12999                      Grades 10, 11, 12

This course is designed to introduce students to the concepts of customer service and learn the skills and techniques necessary to provide best practices to internal and external customers of the organization for which they work. These skills are vital for every job since identifying and satisfying customer need is an essential part of every organization.

## **Personal Finance-4 NICC Credits**

1 Semester-1 credit

Course number: 140                      SCED Code: 19262                      Grades 10, 11, 12

An overview of personal and family financial planning emphasizing personal financial record keeping, planning spending, tax planning, consumer credit, making buying decisions, purchasing insurance, selecting investments, and retirement and estate planning.

## **Employability Skills ("Job Shadowing")-3 NICC Credits**      **REQUIRED FOR ALL JUNIORS**

1 Semester-1 credit

Course number: 141/142      SCED Code: 22152/22999                      Grades 11 & class of 2023

This course is designed to assist students in illustrating the skills necessary to obtain employment by aligning career goals with education plans and practice the skills and attitudes required for job success. Students will complete an inventory, practice resume writing, interviewing techniques, and work-place problem solving strategies. Networking with local employers and learning about local employment



opportunities will be a key course component. Students in this course will explore a field of interest while developing research skills, professionalism and building occupational knowledge. Students will be required to visit workplaces of interest to learn specific jobs and professional requirement, and to develop a basic knowledge of the organization's structure and value. A log/journal will be kept as documentation.

## **English**

Requirements: Students are required to take 8 credits of English. They are required to take English 9, English 10, English 11, Speech and one additional course of their choice.

English 9 and 10 are comprehensive language arts courses, which develop literacy through reading, writing, listening, speaking, and language. Students also develop literacy through a number of different reading strategies applied to various texts.

### **English 9 -Required**

1 Year – 2 credits

Course number: 48

SCED Code: 01001

Grade 9

English 9 focuses on elements of reading and writing for both narrative and informational texts. Students in English 9 will study Shakespeare, *To Kill a Mockingbird*, a variety of nonfiction stories and articles, basic essay writing, direct quotes and paraphrases, and review the parts of speech.

### **English 10 - Required**

1 Year – 2 credits

Course number: 50

SCED Code: 01002

Grade 10

English 10, while still addressing narrative texts, focuses on the skills necessary to effectively analyze and develop expository pieces. This is a world literature course, literature from various countries will be explored. In addition, one of Shakespeare's plays will be read, and the students will continue to be exposed to grammar.

### **English 11- Required**

1 Year – 2 credits

Course number: 52

SCED Code: 01003

Grade 11

English 11 serves as an American Literature course. Students analyze and respond to various writers and pieces of literature through this chronologically arranged course. In addition to continually developing effective use of conventions, this course builds on the fundamental skills developed in English 9 and 10 to create expository pieces that focus on the skills necessary to successfully write in a collegiate and/or professional setting. Students will continue with an exposure to grammar and using the phrase in writing.

### **Speech - Required**

1 Semester - 1 credit

Course number: 54

SCED Code: 11001

Grades 9, 10, 11, 12

This class is designed to help students improve their speaking abilities. Students will be taught to prepare and present speeches on a variety of topics. Also, the students will examine speaking skills necessary for job interviews and on-the-job situations. This class will be required for all students.

### **Creative Writing**

1 Semester - 1 credit

Course number: 55

SCED Code: 01103

Grades 10, 11, 12

Prerequisite: English 9

Student authors will explore and try their hand at different types of writing while finding and developing their creative edge. Students will write short stories, poems, mysteries, and other creative pieces. They will learn skills such as incorporating dialogue, creating complex characters, and developing a climax.

### **Composition I-3 NICC Credits**

1 Semester-1 Credit

Course number: 56

SCED Code: 01105 Grades 11, 12

Prerequisite: Accuplacer writeplacer score of 5 or ACT English score of 18

Composition I prepares students for types of communication and thought essential to academic and working-world success. The course focuses on writing as a process intended to help students identify and refine their own personal writing process. The course requires each student to compose a minimum of 32 pages of edited work.

### **Composition II- 3 NICC Credits**

1 Semester-1 credit

Course number: 57

SCED Code: 01105 Grades 11, 12

Prerequisite: Composition I

Composition II focuses on writing as a process with emphasis on exposition, persuasion, evaluation, analysis, investigation, and research. This course extends the instruction and practice of Composition I to help improve thinking and writing skills needed in academic and working-world success. The course requires each student to compose a minimum of 32 pages of edited work.

### **Investigative Writing**

1 Semester - 1 credit

Course number: 58

SCED Code: 01105

Grades 10, 11, 12

The course is open to students in grades 10-12. Investigative Writing focuses on the skills of asking questions, finding research to support a claim, and crafting an argument through writing. Students will participate in different types of investigative writing: creating surveys, interviewing people in different occupations, writing editorials, and analyzing fake vs. real news.

### **Enjoying Non-Fiction**

1 Semester – 1 credit

Course number – 63

SCED Code: 01061

Grades 9, 10, 11, 12

This course is open to all students. Enjoying Nonfiction will provide students with the opportunity to read a variety of nonfiction books, including texts that amplify diverse voices. We will read one whole-class book and several stories from an anthology written by bicultural Iowans. Students will choose 3 nonfiction books as their independent reading texts to complete throughout the semester. In this discussion-based class, we will engage in higher-order thinking through analysis of real-world issues.

### **British Literature**

1 Semester - 1 credit

Course number: 60

SCED Code: 01056

Grades 10, 11, 12

In this college-prep class, students have the opportunity to read and write with a critical sense. A majority of the class time will be spent in student-centered discussion and will focus on the literature being studied. British literature, along with additional sources of world literature, will be used as the basis of analysis and response. This class is geared toward students who can handle college-level expectations.

### **Contemporary Literature**

1 Semester - 1 credit

Course number: 61

SCED Code: 01062

Grades 10, 11, 12

This Semester course will focus on current literature. Students will study a variety of authors and genres. Students will participate in large and small group oral discussions, individual and class reading, and writing.

### **Individualized Reading**

1 Semester - 1 credit

Course number: 62

SCED Code: 01097

Grades 10, 11, 12

Do you wish you had more time to read books of your choosing? This course will provide students with the opportunity to read a variety of novels independently. The teacher will monitor their progress through regular conferences. Students will also confer with each other in groups. In addition they will be required to complete a variety of written and oral assignments. Books will be combination of student choice and teacher recommendation. Students taking this course must be able to work independently and manage their time.

### **Introduction to Literature**

1 Semester - 1 credit

Course number: 59

SCED Code: 01053

Grades 10, 11, 12

Introduction to literature is a course that explores a variety of different texts and types of literature. It includes examining novels in verse, graphic novels, as well as some short stories. It exposes students to a variety of alternative texts to that of classic literature. It focuses on analyzing literature and discussing the literature read.

## **Family Consumer Science**

### **Clothing and Textiles I**

1 Semester - 1 credit

Course number: 66

SCED Code: 19203

Grades 9, 10, 11, 12

Students will begin this course by looking at the functions of clothing in their lives and how the clothes they wear speak or send messages to those around them. Students then will learn introductory skills of planning and production. The skills include using a sewing machine and serger; shopping at a fabric

store; reading a pattern envelope and direction sheet; lay out, pinning and cutting the fabric. These lessons are presented and practiced in the form of a sewing samples booklet. Once completed with the samples booklet, the rest of the course focuses on the students producing garment and textile products of their choice within a differentiated project contract. Student contracts will be negotiated to challenge students in a variety of project areas and will also includes two repair projects. Assessment of student progress will be based on daily written and reading assignments and projects performance and reflective work. Students will be required to shop for and purchase their own project materials outside of class time. Materials will be presented through a text, supplemental handouts, and teacher demonstration.

### **Clothing and Textiles II**

1 Semester - 1 credit

Course number: 67

SCED Code: 19202

Grades 9, 10, 11, 12

Prerequisite: Clothing and Textiles I

In Advanced Clothing students will build upon skills learned in Clothing and Textiles I. Students taking this course need to be motivated to select and complete projects more independently. Each student will select and provide supplies to complete the following contract project points: repair projects, recycling project, advanced garment project, advanced craft/textile project, and a personal reflection pillowcase project. Student contracts will be used to ensure the selection of a variety of projects with increasing difficulty, building on their skills practiced and learned in the Clothing and Textiles 1 course. Assessment of student progress will be based on daily written and reading assignments and projects performance and reflective work. Students will be required to shop for and purchase their own project materials outside of class time. Materials will be presented through a text, supplemental handouts, and teacher demonstration.

### **Foods I**

1 Semester - 1 credit

Course number: 68

SCED Code: 22202

Grades 9, 10, 11, 12

In this beginning foods class students will learn some basics about food choices – why and how we are influenced to eat like we do. Students learn about nutrition in order to make informed and healthy choices. They will also use consumer skills involving nutrition and economics to evaluate food labels and be smart shoppers. Basic kitchen and food preparation skills are covered and include: safety and sanitation, knife skills, culinary terms and tools, accurate measuring skills, kitchen and recipe math, and recipe review evaluation. Then it's time to put on the chef's hat and apply these skills. Some highlights of the foods to be made are as follows: fruit dip, chocolate crinkle cookies, lemon poppy seed bread, spinach artichoke dip, apple pie pizza, fruit turnovers, *fruit pizza*, *mac and cheese*, creamy chicken rice soup, lasagna roll-ups and simple baked goods. For their major project grade each student will individually choose, plan, and make from scratch a pastry crust pie. Assessment of student progress will be based on daily written and reading assignments; lab work, lab reflection and written examinations.

### **Foods II**

1 Semester –1 credit

Course number: 69

SCED Code: 22202

Grades 9, 10, 11, 12

Prerequisite: Foods I

Students with attendance issues should not enroll in this course. Students taking Foods 2 and Foods 3 courses will be charged with much responsibility in performing in a demanding and professional atmosphere. The commitment level will be much more demanding than Foods 1 as you are developing products to meet the needs of customers within our community.

Coursework will begin with a review of basic skills from Foods 1 including measuring, equivalents, kitchen math, culinary terms and tools, and safety and sanitation. More elaborate food preparation methods will be used to extend skills learned in the topic areas of Foods 1. Students are given more responsibilities in the selection of the recipes within the given topic being studied. Therefore they also have more responsibilities related to the completing recipe review evaluations, market orders, and detailed lab plans. The course incorporates opportunities in the food and nutrition career fields. Students will apply skills in a final project that requires students to plan, prepare, advertise, and budget a product to be sold to the public. Throughout the course students will make and document ten "at-home" baking experiences for which both the parent and student are required to record and reflect information. Assessment of student progress will be based on daily written and reading assignments and reflective work, lab work and 21st century workplace skills.

Units of study will include: Heat Transfer Methods, Cooking Methods, Pressure Cooking, Braising, Broiling, Egg Cookery, Grains/Pasta, Knife Skills, and Microwave Cooking. Within these units students will be charged with choosing and planning labs which meet the given cooking method criteria.

### **Foods III**

1 Semester –1 credit

Course number: 70

SCED Code: 22202

Grades 10, 11, 12

Prerequisite: Foods I and Foods II. Students with attendance issues should not take this course!

Foods 3 is a course focused on baking concepts and production skills to meet the needs of community consumers, therefore, students must have a strong work ethic and employability skills. As with a job, students who have attendance problems or compliance issues will be given verbal warning, written warning, and then can be "fired" or dropped from the class with a failing grade. Students will be responsible for the planning, preparation and service of a project based learning activity.

Students will be required to work before school, homeroom or after school on prep for these activities. Beyond food preparation, the skills the students will put to use are menu planning, market order/grocery list planning, shopping, budgeting, table setting, and customer service. Assessment of student progress will be based on daily written and reading assignments, lab work, and student reflective work in the form of an evidence based portfolio.

Labs and consumer projects will apply to the following concepts:

Baking ingredients and functions, baking terms and tools, mixing methods, quick breads, biscuits and pastries, yeast breads, cakes, frostings, custards, and candies.

Again, this course is not recommended for students with attendance or compliance problems, as the work/grades simply cannot be made up.

### **Parenting – Required**

1 Semester - 1 credit

Course number: 71

SCED Code: 22204

Grades 11

The skills learned are useful for parenting or any type of interaction with children that a person may experience throughout their lifetime. The course begins with the student examining where they are in life and the impact of marriage and/or children on their life. Roles of parents and caregivers are familiarized before discussing when, if ever, they might be ready for parenthood. Sexual decision-making and the risks and consequences associated with the choices are the basis of a research project each student will be assigned. Teenage pregnancy and heredity are discussed as a preliminary background to the discussion

of prenatal health and care. Childbirth is the next topic that is looked at in-depth in order to give information to prepare both males and females for exposure to the birthing process. Parenting practices are studied in relation to child development and include: physical, mental, social and emotional development, parenting styles, discipline and guiding children's behavior. Students will also learn the full-time responsibility of caring for a small infant through a simulated experience with "Baby Think It Over." This computerized doll is set to cry at various intervals requiring attention or care. The baby may need changed, fed, burped or just soothed. It requires the student to distinguish which care the baby needs at different times. The teacher is able to check the doll's computer for abuse or neglect events. (Overnight care required.) Students will arrange a date that works for them to take the child from after school until the start of school the next day.

## **Health**

### **Health I - Required**

1 Semester - 1 credit

Course number: 74

SCED Code: 08051

Grades 9

Health 1 is a required introductory course that includes health topics such as exercise, stress, self-esteem, nutrition, human sexuality, alcohol, and drugs, as well as the impacts these have on one's health. These issues are looked at from the three aspects of health: physical, mental/emotional, and social. The student will also learn the importance of each of these elements of health, and the impact each element has on each other.

### **Advanced Health**

1 Semester - 1 credit

Course number: SCED Code: 08051

Grades 9, 10, 11, 12

Prerequisite: Health

Advanced Health is a course designed to follow the introductory health class required for freshman. The course covers in-depth health topics that especially pertain to teens and their current needs. Some of the topics include stress, nutrition, weight control, exercise, alcohol, tobacco, drugs, environmental health, and health careers. The students are responsible for creating projects that promote health in these topic areas.

## **Physical Education**

### **Physical Education**

Each Semester-Credit varies (0.5 or 1.0)

Course number: 77

SCED Code: 08001

Grades 9, 10, 11, 12

Students are required to take physical education each semester of high school.

The physical education program's main focus is to give the students life long skills and knowledge that will develop and maintain a proper level of fitness. We are also teaching the basic rules and fundamentals of several activities. Students in physical education class are not only developing physically but are mentally challenged. Written tests, physical challenges, and reaching goals are the three items the students need to be prepared to face while in physical education class. When a student

has completed this class our goal is to have in place the knowledge, ability, and willingness to participate in real world physical activities.

### **Early Bird Weight Lifting/PE**

Each Semester-0.5 credit

Course number: 78

SCED Code: 08009

Grades 9, 10, 11, 12

This course will be scheduled by the instructor and will fall between 6AM to 8AM. Student must provide own transportation. Excessive absences may force the move of the student to PE during the school day, if early in semester, or possible failure of the course. Good attendance is a must.

## **Math**

Requirements: Students are required to take 8 credits of math.

### **Algebra I-Required**

2 Semesters – 2 credits

Course number: 81

SCED Code: 02054

Grades 8\*, 9, 10, 11, 12

Algebra I is the foundation course for all advanced math courses, and therefore is a valuable beginning to the math series at the high school level. A scientific calculator is required for this course.

The course consists of the following topics: positive and negative numbers; solving linear equations; multiplying and factoring polynomials; rational expressions; graphing linear equations and inequalities; powers; solving systems of equations; radicals; quadratic equations; and functions.

\*Available to 8<sup>th</sup> grade students with teacher recommendation.

### **Algebra II - Required**(May be taken at the same time as Geometry)

2 Semesters – 2 credits

Course number: 84

SCED Code: 02056

Grades 9, 10, 11, 12

Pre-requisites: Algebra I

A large part of Algebra II is an expansion of Algebra I concepts. Therefore, Algebra I will be thoroughly reviewed. Systems of linear equations involving three variables and systems of second-degree equations will be graphed and solved. Operations and computations with logarithms in problem solving will be used. Systems will be solved using matrices. Some time will be spent on probability and statistics.

### **Geometry – Required**(May be taken at the same time as Alg. II)

2 Semesters – 2 credits

Course number: 83

SCED Code: 02072

Grades 9, 10, 11, 12

Prerequisite: Algebra I

Geometry covers the concepts of Euclidean geometry including definitions, postulates and theorems. Areas of study include tools and language of geometry, reasoning and proof, parallel and perpendicular lines, congruent triangles, relationships within triangles, polygons and quadrilaterals, similarity, right triangles and trigonometry, transformations, area, surface area and volume and circles.

### **Algebra III**

2 Semesters – 2 credits

Course number: 87                      SCED Code: 02107      Grades 10, 11, 12

Prerequisite: Algebra II and Geometry

Algebra III will be an extension of Algebra II. Major topics covered will include an in-depth study of trigonometry, polynomials, conic sections, sequences, series, combinations, functions, logarithms, probability, and statistics.

Any student who contemplates college or a career with math-related responsibilities should consider this course. This class should also be taken for help with the ACT.

### **Pre-Calculus**

1 Semester - 1 credit

Course number: 89                      SCED Code: 02110                      Grades 11, 12

Prerequisite: Algebra III

Pre-Calculus is a course offered for those students who plan to attend college and pursue a degree in a math-oriented field. Upon the successful completion of this course the student will be prepared to take Calculus as their first college math course. The course is basically taught by lecture with a variety of computer enrichment activities. The course reviews and expands on many of the topics previously covered. Also introduced are the major topics covered in a college calculus course: limits, derivatives, and integrals.

### **Statistics**

1 Semester-1 credit

Course Number :92                      SCED Code: 02201                      Grades: 11, 12

Prerequisite: Algebra III

Statistics is a course offered for those students who might like to take Calculus or for those who plan to attend a 2 or 4-year post-secondary school in any major. Statistics could be an alternative to taking Pre-Calculus. Major topics covered will include summarizing and interpret data on a single count or measurement variable, understanding and evaluating random processes underlying statistical experiments, using probability to evaluate outcomes of decisions, using the rules of probability to compute probabilities of compound events in a uniform probability model, and making inferences and justifying conclusions from sample surveys, experiments, and observational studies.

### **Calculus**

1 Semester - 1 credit

Course number: 90                      SCED Code: 02121      Grades: 11, 12

Prerequisite: Pre-Calculus or Statistics

Introduction to Calculus is comparable to the Calculus I course that is offered at the college level. It is a natural follow-up to Pre-Calculus and is a challenging and demanding course.

Technology (graphing calculators and/or computers) are used daily by students and instructor to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results.



Students will work with functions represented in a variety of ways: graphical, numerical, analytical, and verbal. Limits, derivatives, and the definite integral will be explored in depth.

Assessment for the grade will be daily work, verbal participation, quizzes and tests. This course is an excellent way to finish high school mathematics for the student who is contemplating a math/science/technology - related course of study at the university level.

### **AP Calculus**

1 Semester - 1 credit

Course number:88                      SCED Code: 02124      Grades: 11, 12

Prerequisite: Calculus

AP Calculus AB provides students with an understanding of the concepts of calculus and experience with its methods and applications. This course introduces calculus and includes the following topics: functions, graphs, limits, and continuity; differential calculus (including definition, application, and computation of the derivative; derivative at a point; derivative as a function; and second derivatives); and integral calculus (including definite integrals and antidifferentiation).

### **Foundations of Math-(Teacher Assigned only)**

2 Semesters-2 credits

Course number: 91      SCED Code: 02055                      Grades 10, 11, 12

Prerequisite: Algebra I and Geometry

A review and extension of algebra and geometry concepts for students who have already taken Algebra I and Geometry. It includes a review of such topics as properties and operations of real numbers; evaluation of rational algebraic expressions; solutions and graphs of first degree equations and inequalities; translation of word problems into equations; operations with and factoring of polynomials; simple quadratics; properties of plan and solid figures; rules of congruence and similarity; coordinate geometry including lines, segments, circles in the coordinate plane; and angle measurement in triangles including trigonometric ratios.

## **Music**

### **Instrumental Music**

2 Semesters – 2 credits

Course number: 200                      SCED Code: 05102      Grades 9, 10, 11, 12

#### **Band Goals/Objectives**

- Achieve musical excellence by learning and playing a musical instrument.
- Learn and apply musical vocabulary and notation.
- Study different styles of music through rehearsal and performance.
- Respond to music intellectually, emotionally, physically.
- Show individual commitment to the group through participation and encouragement.

#### **Requirements:**

- Put forth effort to learn and improve daily, individually and as a group.
- Maintain a positive attitude
- Lesson attendance (6 per Semester)

- Participate in all concerts (December, March, May)
- Participate in all Marching Band performances (Football games, various parades)
- Participate in other performances (Commencement, Memorial Day, Veteran's Day, Solo/Ensemble, etc).
- Participate in Pep Band during select basketball games
- Attend extra rehearsals (Marching band camp, marching band rehearsals)

### **Vocal Music**

2 Semesters – 2 credits

Course number: 201

SCED Code: 05110

Grades 9, 10, 11, 12

Choir for grades 7-12 is designed as a study in vocal production and music fundamentals. Students will have opportunities to perform a variety of choral literature and also sing for personal enjoyment. The course goals for students are as follows:

1. To develop correct vocal techniques.
2. To develop fundamental music skills in notation and sight-singing.
3. To recognize musical elements and demonstrate expressive qualities in varying styles of both secular and historical choral music genres.
4. To contribute to the blend, balance, and quality of the ensemble by developing the ability to individually sing a part securely.
5. To develop confidence in performing by practicing performance etiquette and decorum.
6. To have opportunities for the enjoyment of music through active participation.
7. To develop self-discipline by functioning as a responsible member of the organization.
8. To experience successful achievement and pleasure through group involvement.
9. To develop personal character traits of leadership, poise, and dependability as well as provide an avenue for self-expression.
10. To develop a desire to continue musical experiences.

### **Requirements:**

- Participation in all concerts (Fall, Winter, Spring, End of Year)
- Participation in all other performances (Commencement, Pops/Talent Show, State Large Group, Solo/Ensemble and any other events in which the choir elects to participate).
- Attendance at any extra rehearsals scheduled
- Lesson attendance

### **Electives:**

- Honor Choirs and Festivals
- Private study with a voice instructor

## Science

Requirements: Students are required to take 6 credits of Science. They are required to take Physics, Conceptual Chemistry, and Biology.

Energy shortages, conservation of resources, health problems, consumer affairs, environmental concerns, and other science-related issues affect us daily. Today's students need to have a good understanding of the physical and biological world in order to make good personal, business, and political decisions, and in order to find fulfilling employment in an increasingly technological world.

Our purpose in science education is to assist in preparing students for life-long decision-making by helping each student gain the background knowledge, problem-solving skills, and thinking ability necessary to deal with life problems.

### **Physics-Required**

2 Semesters – 2 credits

Course number: 98

SCED Code: 03161

Grade 9

Physics provides an opportunity to learn and apply the physical rules that govern the behavior or everything in the universe, from the stars to subatomic particles. Particular emphasis is given to the principles of physical science that have application in everyday life. Major topics include science inquiry, force and motion, energy, heat, electricity, waves, states of matter, atomic structure and the periodic table.

### **Conceptual Chemistry-Required**

2 Semesters – 2 credits

Course number: 100

SCED Code: 03105

Grade 10

Chemistry is the science that investigates and explains the structure and properties of matter. Our goal in 10th grade Chemistry is for students to realize and understand that chemistry is a part of everyday life. In this course students will be exposed to basic chemistry concepts such as: matter, atomic structure, compounds, reactions, bonding, water, acids and bases, and organic chemistry. Students can expect to do hands on labs, lab write ups, cooperative projects and in class discussions.

### **Biology-Required**

2 Semesters – 2 credits

Course number: 102

SCED Code: 03051

Grade 11

Biology is the study of life, its characteristics, and various forms, and the similarities, differences and relationships among living things. A fundamental understanding of basic biological principles is essential in today's world considering the increased availability of biological technology and its application in everyday life. Emphasis in the course is placed on terminology, laboratory procedure and the logical thought process as applied to problems solving and interpretation of data.

## **Earth and Space Science**

1 Semesters – 1 credits

Course number: 99                      SCED Code:03001                      Grade 10, 11, 12

This course offers insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of dynamics and history of the earth, this course will also explore oceanography, geology, astronomy, meteorology and geography.

## **College Prep Chemistry**

2 Semesters – 2 credits

Course number: 104 SCED Code: 03102    Grades 11, 12

Prerequisite – Algebra II - The student must be fluent in proportions, solving linear equations and the use of basic trig functions. We use lots of algebra in this course.

Chemistry is the study of matter and the changes that take place in matter. A knowledge of chemistry is essential to persons who must understand the materials they work with: medical professionals, engineers, pharmacists, nurses, lab technicians, etc. A mastery of chemistry is essential to students who will take college chemistry courses. An understanding of the concepts of chemistry is recommended for anyone pursuing a bachelor's degree, since all colleges have requirements to take at least one science course while at college. Students entering post-high school voc/tech programs should investigate the requirements of their intended specialty to determine if an understanding of chemical concepts is important to their success.

Chemistry II is a college preparatory course, students enrolling should expect to be challenged to master the chemical concepts introduced in conceptual chemistry along with advanced topics not previously encountered -stoichiometry of reactions, equilibrium, molarity, acid/base chemistry and biochemistry.

## **College Prep Physics**

2 Semesters – 2 credits

Course number: 105                      SCED Code: 03151                      Grades 11, 12

Prerequisite - Algebra II - The student must be fluent in proportions, solving linear equations, and the use of basic trig functions. We use lots of algebra in this course.

A mastery of the concepts of physics is necessary for anyone involved in a technical field such as electronics, computer science, engineering or mechanics. An understanding of the concepts of physics is desirable for anyone pursuing a bachelor's degree. Students who intend to enroll in a voc/tech program should investigate the requirements of their intended specialty to determine if an understanding of physics concepts is important to their success.

Students enrolling in college prep physics should expect to be challenged to learn the concepts of physics, and to apply those concepts in explaining familiar observations from everyday experience.

## **Environmental Science**

1 Quarter – Block Class-1 credit

Course number: 106                      SCED Code: 03003                      Grades 11, 12

Environmental Science is a course that will expand on ecological principles and concepts covered in junior high science, chemistry, physics and biology, as well as give the student exposure to field biology

and basic environmental research. It is intended to give interested students considering post secondary training in this area, an introduction to environmental science.

### **Advanced Biotechnology**

2 Semesters or 1 Semester for 1 Block– 2 credits

Course number: 108

SCED Code: 03052

Grades 12

Prerequisite: Biology

The course consists first of a brief review and then further exploration of the study of heredity. Includes a basic review of genetics and molecular biology (functions of DNA) and then builds on these concepts in a laboratory setting. Lab activities include: bacterial transformation, recombinant transformation, DNA fingerprinting, and individual genetic marker identification with the use of polymerase chain reaction culminating in actually sequencing a region of each students DNA. Other topics covered will include genetically modified plants and animals, the human genome project, bionformatics, and the ethical issues surrounding this area of biology.

### **Human Biology**

2 Semesters – 2 credits

Course number: 109

SCED Code: 03053

Grades 12

Prerequisite: Biology

The course of Human Biology is designed to more thoroughly prepare interested students for further training, post-secondary education, a beginning career in health care related fields. Its general goal is to enforce basic scientific concepts already learned in biology, chemistry and physics and further exploration of other areas related to human anatomy, physiology, and health.

### **Exploring Science through Scientific Research and Design**

2 Semesters – 2 credits

Course number: 107

SCED Code: 03212

Grades 11, 12

Prerequisite – Successful completion of two high school math courses. - The student must be fluent in proportions and solving linear equations.

The course is offered to those students who have a keen interest in science. **Students must be highly motivated and able to work independently.** Students will be introduced to the method of scientific research. Students will use the scientific process to explore, research, experiment and analyze a topic over an extended period of time. The topic should engage them in solving a real-world problem or answering a complex question. Students will demonstrate their knowledge and skills by creating a public product or presentation for a real audience. As a result of this course, students will develop their content knowledge, critical thinking, collaboration, creativity, and communication skills.

## **Social Science**

Requirements: Students are required to take 6 credits of Social Science. They are required to take U.S. History, World History, American Government and Economics.

### **U.S. History - Required**

2 Semesters – 2 credits

Course number: 113

SCED Code: 04101

Grades 9

We start at the Civil War and cover the following topics. Civil War and causes and effects, Reconstruction, Industrialization and Labor relations, importance of railroads and increases in efficiency. Immigration and the growth of cities as well as industrial society and the increase of American power on the world stage. Inventors and inventions are covered as well as increasing corruption in government and the work place. The next step is the progressive era dealing with cleaning up corruption and problems in government and the work force. We transition to WWI and the reasons surrounding it. The Roaring 20's, Great Depression and New Deal follow with focus on cause and effect relationships. Finally we touch on WWII and Post War tensions on a global scale. Final project deals with presidential profiles from Truman to Bush 43.

All of above topics are covered using multiple sources of information including the text, primary sources, images and opinion analysis. Internet is used for projects. Students will learn to use critical thinking and ask questions about how and why things happen, not learning about names and dates exclusively.

### **World History - Required**

2 Semesters – 2 credits

Course number: 115

SCED Code: 04051

Grades 10

As you study world history you will learn about the challenges and achievements of people throughout the world in different periods of time. The pleasure and satisfaction you will gain from examining this record is the initial reason for studying world history.

The more knowledge you gain of the past, the more insight you will have into the present. Links between the past and present are all around you. History will help you understand yourself and the world in which you live.

Knowledge of world history will give you an even greater appreciation of your heritage. Among your legacies are, democracy from ancient Athens, written law from Mesopotamia, Arabic numerals from India. You will come to value these contributions from the past that are the foundation of your culture and tradition.

World history introduces you to places and societies all over the world. Knowledge of other peoples and other cultures will give you a better perspective of the times in which you live.

Problems and their solutions are essential to any study of world history. You will have many opportunities to uncover the roots of present-day issues. Your understanding of the past will enhance your ability to evaluate and deal effectively with concerns of your own times.

### **American Government - Required**

Seniors only

1 Semester - 1 credit

Course number: 117

SCED Code: 04151

Grades 12

As citizens of the nation that gives us more freedoms and privileges than found anywhere else in the world, it is our responsibility to have an understanding of government "by the people." We will continue to enjoy those freedoms as long as the people are willing to work to maintain them.

The American system of government is extraordinarily dynamic. Change - growth, adaptation, and innovation - is a basic element of its character. While our government's fundamental principles and its

basic structure remain constant over time, many of its other characteristics have changed, and they continue to do so.

Our form of government is complex because it is made up of different parts, performing many different functions. And, the many parts are interrelated.

Upon completion of the course, you will have a greater understanding of United States government, and what your role is.

We will also take a brief view of the Iowa state government.

### **Economics - Required**

Seniors only

1 Semester - 1 credit

Course number: 118

SCED Code: 04201

Grades 12

Economics is a comprehensive study of the American economic system. We begin with a study of the basic principles. Scarcity, trade-offs, and opportunity cost starts us off. We look at types of economic systems next and the differences they possess. Students will also get an overview of microeconomic principles of supply and demand and macroeconomic principles of GDP, wage determination, and the business cycle, etc. The students will also be required to complete a Financial Literacy program online. This is required for graduation. A final exam will be given at the end of the course.

### **Current Events**

1 Semester - 1 credit

Course number: 119

SCED Code: 04156

Grades 9, 10, 11, 12

Current Events is an elective course for students who wish to become more aware of their local, national, and global surroundings. The course will force students to take a stance on current, controversial issues that are shaping our society. The course will concentrate on the issues of today, but will also take a step back and look at how we got to where we are.

### **Social Problems**

1 Semester - 1 credit

Course number: 120

SCED Code: 04258

Grades 10, 11, 12

Social Problems is the study of human interactions. Who are you and why have you become the way you are? What social groups do you associate with and how are they impacting you in ways you never thought possible? We discuss all of these topics and more in Social Problems

After gaining a basic understanding of how a person becomes the way they are, we transition into everyday social struggles that the average person may have to deal with. This includes: Addiction, Spousal Abuse, Terrorism, Credit and Banking, as well as many other basic social problems in society.

Students will leave this class with a better understanding about how the person they are developed and why those changes happened. Students will also demonstrate the ability to analyze problems that exist in society, and discuss their effects, as well as possible solutions.

Requirements: Students will be expected to participate actively in class discussions. Research work on each major topic is also a class requirement. Students will do a research paper, plus written or oral book reports over material approved by the instructor.

### **Psychology**

1 Semester - 1 credit

Course number: 121

SCED Code: 04254

Grades 10, 11, 12

Psychology is the study of human behavior. Looking scientifically at why human beings behave the way they do is a relatively young but very exciting science. Psychology investigates how people learn, how their personality was formed and how it effects their relations with others. Psychology is also interested in abnormal behavior, and how people can improve their mental health. The course will serve as a prep course for those going on to college and an introductory course for any students who are interested in understanding their own motivational and behavior. It is designed primarily for junior and senior students.

Students will be expected to complete one research project and report on outside readings.

### **America At War I - 1776-1900    \*\*Offered in years beginning with odd number (i.e. 2021-22)**

1 Semester - 1 credit

Course number: 123

SCED Code: 04102

Grades 9, 10, 11, 12

America At War I is a survey course that focuses on all aspects of the American military. The class begins with a study of strategy, tactics, logistics and the 9 Principles of war. We move to rank, structure and military traditions of the US Armed Forces.

Moving from the basics of the military, we focus on the various wars that America has fought in. These include: Revolutionary War, War of 1812, Mexican American War, Civil War. For each war, students learn the complicated political and economic reasons for the start of the conflict, important battles, strategies, and leaders. At the end of each conflict, students then analyze what was gained by these conflicts, what was lost and how each individual war changed the fabric of our nation, for better or for worse.

Students should leave this class with a concrete understanding of what the military is, how it works, why we need it and how it has been an driving force for our country since before America even existed.

### **America At War II    \*\*Offered in years beginning with even number (i.e. 2022-23)**

1 Semester - 1 credit

Course number: 124

SCED Code: 04103

Grades 9, 10, 11, 12

Prerequisite: America at War I

America at War II is an elective course designed for students who are interested military tradition, tactics on the battlefield, and involvement of the American soldier in the late 21st century and the Cold War. We will look at...

- The Spanish-American War
- World War I
- World War II
- Korean War
- Vietnam War



- Persian Gulf I
- Iraq

We will also look at the training and the life of the American soldier. Activities will include a term paper, power points, and classroom discussion. Students will also be introduced to rank and structure of the American military.

### **Ethnic History**      **\*\*Offered in years beginning with even number (i.e. 2022-23)**

1 Semester - 1 credit

Course number: 125

SCED Code: 04107

Grades 9, 10, 11, 12

This course will explore the impact that various ethnic groups had on the development of American culture and history. Students will study the struggles these various groups had to overcome. Some topics that are covered: right to vote, equality in education, civil rights laws, and reasons for immigration. Students will also take a modern look at the political impact made by the various groups.

### **Street Law**

1 Semester - 1 credit

Course number: 126

SCED Code: 04162    Grades 10, 11, 12

Street Law is the concept of educating people about law that is of practical use in everyday life (on the streets). Every purchase, lease, contract, marriage, divorce, crime, or traffic violation places the citizen face-to-face with the law. Street Law is designed to provide you with an understanding of your legal rights and responsibilities, knowledge of everyday legal problems, and the ability to analyze, evaluate, and in some situations, resolve legal disputes.

Street Law addresses general problems in the areas of criminal, consumer, family, housing, and individual rights law. The course also discusses situations such as what to do if you are the victim of crime, when and how to select an attorney, the legal rights and responsibilities of parents and children, how to register to vote, and what to do about discrimination or other violations or your constitutional rights. These and all of the topics covered in Street Law are designed to help you survive on the street.

### **The 1960s**      **\*\*Offered in years beginning with odd number (i.e. 2021-22)**

1 Semester - 1 credit

Course number: 127

SCED Code: 04109    Grades 10, 11, 12

"Today our concern must be with the future. For the world is changing. The old era is ending. The old ways will not do." - John F. Kennedy, 1960.

The Counterculture, Camelot, The New Frontier, The Great Society, Civil Rights Movement, Vietnam War, The Home front, Assassinations, Space Race, MLK, JFK, LBJ, RFK, Sirhan Sirhan, The Grassy Knoll, November 22, 1963, Lee Harvey Oswald, Jack Ruby, Television War, Censorship, Flower Power, Sit-Ins, ERA, My Lai Massacre, Hippies, Tet Offensive, Khe San, 1968: The Terrible Year, Woodstock, "Tune in, Turn on, Drop out," POW MIA, Still in Saigon, NVA, "Call in a dust-off!" Viet Cong, Ia Drang Valley, "If I Die In A Combat Zone, Box Me Up And Send Me Home."

What does it all mean?

## **AP US History**

2 Semesters -2 credits

Course Number 128

SCED Code: 04104    Grades 11, 12

A history of the United States from the time of colonization to present day. The course is intended to be a rigorous fast – paced look at US History. There will be a focus on reading and writing in this course.

Students will be presented with many primary source documents. They will be expected to be able to read and understand these documents well enough to be able to form an opinion of a topic, and also be able to back up their position. The course will also provide a more in – depth approach of the events in US History. Students wishing to take this course must understand they will have an accelerated curriculum that will be intense and full of reading. It will not be required that the students take the AP test at the conclusion of the class, but highly recommended.

## **Spanish**

### **Spanish I - Introduction to Spanish**

2 Semesters - 1 credit/Semester

Course number: 129

SCED Code: 06101    Grades 9, 10, 11, 12

Students begin speaking, comprehending, reading, and writing Spanish. Topics include: sports, activities, foods, clothing, family members, transportation, furniture, and descriptive adjectives. Each chapter introduces a grammatical structure and information on culture of a Spanish speaking country. Much of the work is oral and requires memorization.

### **Spanish II**

2 Semesters - 1 credit/Semester

Course number: 131

SCED Code: 06102    Grades 10, 11, 12

Prerequisite: Spanish I with a grade of C or better.

Students further develop the areas of speaking, comprehending, reading, and writing in Spanish. Topics include: weather, feelings, animals, occupations, shopping, hotels, public buildings, reading maps, and musical instruments. There is a strong emphasis on grammar, reading, comprehension, and communication.

### **Spanish III**

2 Semesters - 1 credit/Semester

Course number: 133

SCED Code: 06103    Grades 11, 12

Prerequisite: Spanish II with a grade of C or better.

The culture of Spanish speaking countries is explored through videos, films, and projects. Grammar includes past and future tenses along with commands. Writing includes personal letters, paragraph development, storytelling and scene description.

### **Spanish IV**

2 Semesters - 1 credit/Semester

Course number: 134 SCED Code: 06104                      Grade 12

Prerequisite: Spanish III with a grade of C or better.

Spanish IV students continue working on composition and conversational skills. Writing includes newspaper article development, writing the end of story or play and a research paper. Reading includes Spanish literature, magazines and newspapers

## **Vocational**

### **Principles of Money**

1 Semester-1 credit

Course number: 93    SCED Code:    02157                      Grades 11,12

Math applied to areas which include wages, hourly rates, payroll deductions, sales, receipts, accounts payable and receivable, financial reports, discounts and interest, income, insurance, credit, banking, taxation, and finance.

### **Work Study**

1 Quarter-Block Class-1 credit

Course number: 136                      SCED Code: 22998                      Grade 12

Prerequisite-Employment Strategies

Employment is the core of a person's life style whether the work involves a specialized career, a semi-skilled position, an entry-level job, or military service.

This class is designed for seniors as part of transition planning from school to the work force. The overall purposes are:

- To provide an opportunity to participate in actual work experiences through job placement.
- To develop acceptable work attitudes that employers expect
- To provide entry-level skill training in a career cluster area of their choice.

The time frame of the work placement will be scheduled on an individual basis but must be established by the beginning of the semester prior to the semester desired. Students must provide their own transportation to and from the work site and must be in good academic standing with the district including grades and attendance. Students must complete a minimum of 45 hours in the placement.

### **PEER TUTORING (For helping Junior high students)**

Grades 12

1 Semester-1 credit

SCED Code: 22054

Prerequisite: Need instructor permission.

Peer tutoring will give students interested in fields such as education, child psychology, social work, or other types of helping professions, experience working with youth. Duties and responsibilities will vary dependent upon where the student is placed.

**NOTICE OF NONDISCRIMINATION**  
**Code No. 102.E1**

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The school district does not discriminate on the basis of race, color, age (except students), religion, national origin, sex, marital status, sexual orientation, gender identity, gender, creed, socioeconomic status, or disability in admission or access to, or treatment in its hiring and employment practices. Any person having inquiries concerning the school district's compliance with the regulations implementing Title VI, Title VII, Title IX, the Americans with Disabilities Act (ADA), § 504 or *Iowa Code* § 280.3 is directed to contact:

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