Course Description Handbook

2020-2021

WAUKON HIGH SCHOOL
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Online Courses

There are many courses available online through NICC or on the Calmar Campus. To register for these courses students should do the following:

1) Check in the Guidance Office for a list of available courses. Course lists are available in the late spring for the fall semester and in the late fall for the spring semester.
2) Complete the paperwork required for course registration. This is also available in the Guidance Office.
3) Paperwork must be completed by the end of May for a fall course and by the end of December for a spring course.
4) Students should handle the registration as soon as possible as many of these courses fill up.

College Courses

*In order to take a college credit class, students must meet the following requirements:
  --Be proficient (41%) in Math, Reading and Science on the most recent ISASP tests
  OR
  --Received a grade of C- or higher in the most recent high school class that is from the same subject area as the college class
  --AND have not failed any classes the previous semester
  --AND have at least 85% attendance

*Students must have passed all classes the previous semester in order to take any college classes the following semester.

Juniors and seniors are eligible for enrollment in nonsectarian courses offered at qualified post-secondary institutions if comparable courses are not offered at Waukon High School. The college credit earned in these courses will also be applied toward the local requirements for receipt of a diploma. **Students are responsible for purchasing their own college level textbooks in most classes.**

College courses that are offered through Waukon High School are marked with an * in this booklet.
Requirements for Graduation

Students who have successfully completed the required units of credit, including all the district’s required courses, and conducted themselves in a commendable manner shall be eligible to receive a high school diploma. Any exceptions must have the approval of the administration and school board.

Graduation Requirements (1 unit=1 year):

- 4 units English (English 9, English 10, English 11, Elective)
- 3 units Math
- 3 units Science (Physical Science, Biology, Elective)
- 3 units Social Studies (US History, Government, Economics, Elective)
- ½ unit Health
- ½ unit Career Technology
- 1 unit Physical Education
- 9 units Electives

Total Required: 24 units (credits)

A pupil shall not be required to enroll in health courses if the pupil’s parent or guardian files a written statement with the school principal that the course conflicts with the pupil’s religious beliefs. Iowa Administrative Code, Agency Number 281:12.5(6).

No senior will be allowed to participate in commencement exercises who have not met the minimum requirements for graduation as prescribed by the Department of Public Instruction and the Allamakee Community School Board.

It is the policy of the Allamakee Community School District (ACSD) not to illegally discriminate on the basis of race, color, national origin, sex, disability, religion, creed, age (for employment), marital status (for programs), sexual orientation, gender identity and socioeconomic status (for programs) in its educational programs and its employment practices. Nor in any of the CTE programs offered (Business, Agriculture, Information Services, Applied Sciences, Health Sciences, and Human Services) There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact the district’s Equity Coordinator: Luke Steege, Equity Coordinator 563-568-3409 or lsteege@allamakee.k12.ia.us Allamakee Community School District, 1059 3rd Ave. NW, Waukon, Iowa
AGRICULTURE EDUCATION

Agriculture I (Introduction to Agriculture)
Level: 9-12  Credit: 1 unit  Prerequisite: None
Agriculture I offers students with an interest in agriculture the opportunity to explore animal production, crop production, agriculture mechanics, natural resources, and farm business management. In addition to the listed subject areas, students gain exposure to the function of the school’s FFA program. This class may count as a science credit for graduation.

Precision Farming Systems
Level: 10-12  Credit: 1/2 unit  Prerequisite: Agriculture I
Explores the concepts of Site Specific Agriculture (Precision Farming) and how it can improve profitability in a total crop management system. Students will use a basic GIS program to analyze data from a farm operation.

Horticulture
Level: 10-12  Credit: ½ unit  Prerequisite: Agriculture I
This course exposes students to the art and science of growing plants, shrubs, trees, flowers, fruits, and vegetables. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils and media mixtures, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed and pest control, and floral design.

Veterinary Science
Level: 10-12  Credit: ½ unit  Prerequisite: Agriculture I
This course covers topics including the causes, diagnosis, and treatment of diseases and injuries of animals, typically emphasizing domestic and farm animals. Course topics focus on anatomy and physiology, nutrition, behavior, and reproduction.

Landscape Design
Level: 10-12  Credit: ½ unit  Prerequisite: Agriculture I and Horticulture
Students will learn about the various aspects related to landscaping the home environment. Topics include analysis of the site, reading and producing a landscape design, basic art principles, site preparation, and installation of decks, patios, walks, fencing and plants. In addition, students will learn how to care for the landscape environment through the use of proper fertilization, integrated pest management and pruning techniques. Students will be responsible for completing a sizeable class project.

Professional Leadership & Preparation
Level: 11-12  Credit: ½ unit  Prerequisite: None
This class is designed to discuss leadership and careers. We will look at the skills necessary to be a leader, how to work as a team, manage people and many additional career-related topics. Topics will include team building exercises, personality profiles, career interest profiling, parliamentary procedure, and specific leadership qualities, with others to be developed from student interest. This class will be highly project-oriented
and will include writing assignments, team and individual projects and other journals. All information will be presented in terms of how it affects you as a student, an individual, and a future leader in society.

*Crop Science*
Level: 11-12  Credit: ½ unit  Prerequisite: Agriculture I
This class provides an overview of crop management. It introduces the principles of plant-soil-climate relationships.

*Animal Science*
Level: 11-12  Credit: 1/2 unit  Prerequisite: Agriculture I
This class provides an overview of the animal science industry. It explores breeds, basic management, and farm animal marketing. Topics include beef and dairy cattle, companion animals, horses, poultry, sheep and swine.

*Farm Management*
Level: 11-12  Credit: ½ unit  Prerequisite: Agriculture I
This course provides an overview of the farm management process and the process of farm decision making. It includes record keeping, budgeting, year-end analysis, enterprise analysis, and tax management.

**ART**

*Art Foundations*
Level: 9-12  Credit: ½ unit  Prerequisite: None
This course focuses on the principles and elements of art with the emphasis of basic drawing and painting techniques. Students have the opportunity to experiment with a variety of media and subject matter while correlating their projects to art history. Some of the drawing media introduced are pencil, chalk, charcoal, oil pastel, and the painting media includes tempera, watercolor and acrylic.

*Ceramics*
Level: 10-12  Credit: ½ unit  Prerequisite: None
Ceramics introduces students to the art of making functional objects from clay. Students will learn to hand build pottery as well as the opportunity to use the potter’s wheel. They will also decorate, glaze and fire their work. Students will learn pinch, coil, slab and other hand-building techniques. Multiple pots including but not limited to: mugs, candle-holders, bowls and a place setting will be created on the wheel. Decoration of pottery pieces will include using slip, texture, incising and glaze.

*Crafts & Mixed Media*
Level: 9-12  Credit: ½ unit  Prerequisite: None
Crafts and mixed media art is designed to explore the creative process and technical knowledge acquired through combining various media and techniques. Students will be encouraged to experiment in ways that will depart from the norm and portray personal expression. Some of the materials emphasized in this course include pen, ink, graphite,
collage, acrylic, pastel, metal, paper, fiber dye, wax and digital images. Projects may include glass fusing and stained glass, fabric dying, papermaking, altered books, jewelry, candle making, string art and basketry. This class offers a hands-on experience to produce a variety of art forms.

**Digital Design I**
Level: 9-12 Credit: ½ unit Prerequisite: None
Digital Design I introduces students to using technologies as tools for creating art. Students work with digital photography, graphic design programs and other digital or interactive media to create and manipulate original artwork. Understanding the programs, becoming proficient in their use, as well as learning about typography will be the primary focus of this course. Student work will be compiled in a digital portfolio.

**Digital Design II**
Level: 9-12 Credit: ½ unit Prerequisite: Digital Design I
This course expands on the graphic design skills learned in the prerequisite by taking digital art to the next level. Producing work for potential clients, creating practical and purposeful designs and creating a digital portfolio will be the focus throughout this class. Projects may include logo design, a business package, stationery templates, photography, portrait manipulation, animation and t-shirt design with screen-printing.

**Printmaking**
Level: 10-12 Credit: ½ unit Prerequisite: None
This course introduces students to the production of multiple images from a single design. Printmaking is varied, repeatable and tactile, with images printed as unique works, as multiples, or as variations, using an array of processes. Emphasis is on design and creative use of the materials and techniques from a range of printmaking methods including relief, monotype, and basic etching processes.

**Sculpture**
Level: 10-12 Credit: ½ unit Prerequisite: None
Students in this class will work in the design and production of three-dimensional art. They will learn to recognize texture and form as attributes of 3-D art and understand the difference between classical and contemporary sculpture. Projects may include relief sculpture, assemblage, figures, masks and mobiles. The mediums may include clays, cardboard, Styrofoam, paper, plaster and miscellaneous materials.

**Advanced Studio Art**
Level: 11-12 Credit: ½ unit Prerequisite: at least 5 previous art classes or instructor approval.
Studio Art is an advanced course for the serious art student. The goal of the course is for each student to develop a portfolio of art work that best represents his/her artistic skills. Based on class assignments, students will work on individual projects, thus reinforcing and expanding upon previously learned skills. Students will use a sketch book to organize ideas and will learn to make decisions necessary to do successful art work on their own, display their work and critique it. Because each student in the class could choose
different mediums for an assignment, students are expected to know the technical basics and have classroom experience using the medium that they choose. The course may be taken again for credit, with teacher/administrative approval and a minimum grade of B+ in the previous class.

BUSINESS

Accounting I
Level: 10-12  Credit: 1 unit  Prerequisite: None
Accounting I is the study of principles, guidelines, and rules that will provide the individual, or management, with information to make informed business and financial decisions. The course will give a thorough background in the basic accounting procedures. The students will learn the step-by-step procedures that are necessary to determine profits or improvement in a financial position. The purpose of accounting is to prepare individuals to keep a personal set of records and to explore accounting or other business fields as a career choice. The goal of accounting is to learn the many uses and values that an accurate and complete set of financial records can have for an individual or business.

Accounting II
Level: 11-12  Credit: 1 unit  Prerequisite: Accounting I
Accounting II incorporates the accounting equation and systems approach established in the first year course. The first quarter will be devoted to learning about the microcomputer and solving problems on previously performed manually. The final three quarters will be developed to managerial and corporate accounting in controlling revenue, costs, and expenses. A continued emphasis will be placed on the microcomputer to help in the processing of data throughout the year.

Business Law and Communications
Level: 10-12  Credit: ½ unit  Prerequisite: None
Law is an instrument of social control that affects all of us. Business provides the necessities of life. The combination of these two concepts is what will be studied in this course. Business Law is intended to help the student identify legal issues and problems that arise in everyday living. The content will stress the origins of our law as we know it today, the courts, fraud and property law. Exploration of various types of business communications and Netiquette for business communications will take place.

Entrepreneurship
Level: 10-12  Credit: ½ unit  Prerequisite: None
Entrepreneurship dives into the nuts and bolts of owning your own business. This course will introduce the many aspects required to create a successful new venture including innovation, entrepreneurial opportunities and business plans. Students will also study marketing, finance, human resources, global economy, legal issues, Web page design, spreadsheets and various other computer activities will be integrated into this course. Whether you plan to attend a four year college or a technical school with plans to start your own business, this class will give you a basic understanding of what it takes.
**Intro to Computer Business Applications**

Level: 11-12  Credit: ½ unit  Prerequisite: None

An overview of application software concepts through hands-on exercises. Experience is gained by working through progressively challenging exercises using business application software. Stresses practical use of spreadsheet, word processing, database, graphic programs and integration. Covers purchasing guidelines for software selection and the impact of hardware systems.

**Introduction to Business**

Level: 11-12  Credit: 1 unit  Prerequisite: None

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. This is a semester long, blocked course.

**Principles of Management**

Level: 11-12  Credit: 1 unit  Prerequisite: None

Studies basic factors in the work environment that affect managerial decision making. Emphasizes the four functions of management with discussion of managerial ethics and social responsibility.

**Personal Finance**

Level: 11-12  Credit: 1 unit  Prerequisite: None

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. **This is an online class with NICC.**

**Employability Skills**

Level: 10-12  Credit: 1/2 unit  Prerequisite: None

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. Students who are participants of the CLL program are required to take this course.

**General Business**

Level: 9-10  Credit: 1 unit  Prerequisite: None

This course will discuss commerce, decision making, time management, economic systems, private enterprise, career choices, business communications, money and banking, credit, saving and investing, insurance, and business ownership/entrepreneurship as they apply to today’s technological society. Information and concepts to be learned will be presented through lectures, large and small group discussions, overhead, videos, field trips, and computer resources. Tests and quizzes will be given periodically to check for comprehension of lecture material, vocabulary, and supplementary materials as they apply to each of the units.
Career Technology
Level: 10  Credit: ½ unit  Prerequisite: Required course
Welcome to your career as a student, where your paycheck is your report card. In this career-driven course, students are introduced to digital citizenship and how it relates to their future employment. Classroom experiences utilizing various forms of technology to help prepare students for future careers through career exploration and post-secondary plan development. In an effort to prepare students for the future, employment benefits and basic banking are covered to help with management of their future finances. To help students build their resume and develop soft skills critical for future employment, problem solving is developed through Computer Science and Photoshop is introduced to foster creativity.

Mobile Apps
Level: 10-12  Credit: ½ unit  Prerequisite: Algebra I
Introduces students to Android and iOS programming languages; Java & Swift to produce apps that will run on tablets and smartphones. Communication and problem solving are key aspects to this course. App design will include (but not limited to) practical usage apps, mobile games, and a community app project. Additionally, students will compile a professional portfolio of their work and research career opportunities in the app development field.

Fundamentals of Web Design
Level: 10-12  Credit: ½ unit  Prerequisite: None
Introduces the basics of webpage creation and maintenance. Uses hypertext markup language in the creation of webpages. Stresses good screen layout and design principles, includes use of application software to create webpages, explores enhancements and extensions of HTML, and incorporates scripting in creating Web pages.

*The College Experience
Level: 11-12  Credit: ½ unit  Prerequisite: None
College is new and different experience for many students. This course conveys expectations of the college culture to first-time college students. It provides and examination of the student’s learning styles, familiarization with college resources and support services, review of important study and test taking skills, development of goal setting and decision making skills, and enhancement of personal relationship skills that relate directly to success in college. This course is required for all students intending to pursue any type of degree from NICC.

ENGLISH

English 9
Level: 9  Credit: 1 unit  Prerequisite: Required
English 9 is primarily a literature course in which the focus is on improving student achievement in reading, writing, empathy, and communication. Students will experience units centered on group projects, solo projects, writing, and effective communication techniques. Over the course of the year, students will read Of Mice and Men, Romeo &
Juliet, To Kill a Mockingbird, and The Absolutely True Diary of a Part-Time Indian. There are also units which cover nonfiction, written expression, and successful communication.

**Honors English 9**

Level: 9  Credit: 1 unit  Prerequisite: Teacher recommendation/test scores

Honors English 9 is primarily a literature course in which the focus is on improving student achievement in reading, writing, empathy, and communication. Students will experience units centered around group projects, solo projects, and effective communication techniques. Over the course of the year, students will read Of Mice and Men, To Kill a Mockingbird, A Thousand Splendid Suns, The Book Thief, Romeo and Juliet, along with other selections chosen by the teacher.

**English 10**

Level: 10  Credit: 1 unit  Prerequisite: Required

This course is designed to give the student experience in oral and written communication. Students will research, construct, and deliver at least three major speeches throughout the semester. Frequent assignments dealing with narrative writing, descriptive writing, and expository writing will be assigned. Also vocabulary study is a necessary part of this course. Students will study four major literary genres: poetry, drama, short story, and novel. Emphasis will be on the structures of each genre, as well as on the terms and techniques associated with each. Themes will also be emphasized.

**Honors English 10**

Level: 10  Credit: 1 unit  Prerequisite: Teacher Recommendation/test scores

This course is designed to give the student experience in oral and written communication. Students will research, construct, and deliver at least three major speeches throughout the semester. Frequent assignments dealing with narrative writing, descriptive writing and expository writing will be assigned. Also vocabulary study is a necessary part of this course. Students will study four major literary genres: poetry, drama, short story, and novel. Emphasis will be on the structures of each genre as well as on the terms and techniques associated with each. Themes will also be emphasized.

**Reading Essentials**

Level: 9-11  Credit: 1 unit  Prerequisite: Qualifying ISASP scores

Students who are not proficient in the reading portion of ISASP testing may be required to take this course. The course will focus on improving scores by addressing specific reading strategies in each English/Language Arts domain.

**English 11**

Level: 11  Credit: 1 unit  Prerequisite: Required

This course continues to develop students’ writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.
Honors English 11
Level: 11 Credit: 1 unit Prerequisite: Teacher recommendation/test scores
This course continues to develop students’ writing skills, emphasizing clear, logical
writing patterns, word choice, and usage, as students write essays and begin to learn the
techniques of writing research papers. Students continue to read works of literature,
which often form the backbone of the writing assignments. Literary conventions and
stylistic devices may receive greater emphasis than in previous courses.

English 12
Level: 12 Credit: 1 unit Prerequisite: Fulfills fourth year of English
This course blends reading, writing, viewing, listening, and speaking into a cohesive
whole. Students write critical and comparative analyses of selected texts, continuing to
develop their language art skills. Students write multi-paragraph essays, conduct
research, document that research and present their findings.

*Public Speaking
Level: 11-12 Credit: ½ unit Prerequisite: None
This course is an introductory course emphasizing actual speaking experiences with
practice in choosing subjects, analyzing audiences, and preparing and delivering a variety
of extemporaneous speeches. It provides opportunity for skill development in listening
and group discussion techniques.

*Foundations of Writing
Level: 11-12 Credit: ½ unit Prerequisite: Qualifying Accuplacer or ACT scores
This is a writing course that develops fluency and confidence in communication and
clarity in thinking through writer’s notebooks, expository writing, analytical reading, and
listening. Structured assignments are used to explore personal goals and values,
exercising skills needed for reasoning and writing across the curriculum.

*College Composition I
Level: 11-12 Credit: ½ unit Prerequisite: Qualifying Accuplacer or ACT scores
This class prepares the student for the types of communication and thought essential to
academic and working-world success. The course focuses on writing as a process and is
intended to help students identify and refine their own personal writing.

*College Composition II
Level: 11-12 Credit: ½ unit Prerequisite: Must have completed College
Composition I with a minimum grade of C-
This class is a writing course that focuses on writing as a process with emphasis on
persuasion, evaluation, analysis, investigation, research, and documentation sources.

Publications (does not count for English credit)
Level: 9-12 Credit: 1 unit Prerequisite: Application, Interview & a B in English class
Students will have the opportunity to produce the school yearbook as well as the school
newspaper. Student’s skill and understanding will be measured through various quizzes,
tests, and projects. Students learn to write and edit in a journalistic style, with an
emphasis on correct usage and clarity of thought. Students create editorials, features, and
news items. Design and layout are part of the class.

FOREIGN LANGUAGE

Spanish I
Level: 9-12 Credit: 1 unit Prerequisite: None
Spanish I is a one year elective course. A good knowledge of English grammar is
important. In this class students learn basic vocabulary to speak and write in Spanish
about topics related to daily life. Activities include conversations and composition, with
emphasis on customs and traditions of the Spanish speaking world.

Spanish II
Level: 10-12 Credit: 1 unit Prerequisite: Spanish I
Spanish II is a one year elective course. In this class students continue to develop
listening, reading, and writing skills learned in Spanish I. Emphasis is given toward the
ability to express ideas in Spanish, and to read with interest and understanding. Class
activities include conversation, composition, novels, videos, songs, group practice and
study of the culture, traditions, and customs of Spanish speaking people. Spanish is
spoken whenever possible.

Spanish III
Level: 11-12 Credit: 1 unit Prerequisite: Spanish II
Spanish III will be conducted in Spanish, for the most part. The course includes a review
of the basic Spanish conversation and compositions based on materials covered in class
and topics of interest to students. Emphasis is placed on oral proficiency—the ability to
communicate on a given topic in the target language.

Spanish IV
Level: 12 Credit: 1 unit Prerequisite: Spanish III
Spanish IV is a continuation of Spanish III. The class will be conducted in Spanish.
Students will be exposed to more Hispanic literature, art, culture and traditions. The
course includes a review of basic Spanish with emphasis placed on oral proficiency—
ability to communicate on a given topic in the target language.

HEALTH OCCUPATION

*Medical Terminology
Level: 11-12 Credit: 1 unit Prerequisite: None
This course is the study of medical terminology as the language of medicine with
emphasis on word analysis, construction of definitions, pronunciation and spelling of
medical terms. This is an online course.

*Dosage Calculations
Level: 11-12 Credit: ½ unit Prerequisite: Placement test scores
Dosage calculations includes a review of fractions and decimals, conversions of metric, apothecary and household units and computations of drug dosage. The classification of drugs affecting each body system will be an integral part of this course.

*Nurse Aide Course*
Level: 11-12  Credit: ½ unit  Prerequisite: ACT or Accuplacer Scores
This 75-hour course meets the training of The Omnibus Budget Reconciliation Act of 1987 (OBRA) for aides working in nursing facilities (NF) and skilled nursing facilities (SNF). It emphasizes the achieving of a basic level of knowledge and demonstrating skills to provide safe, effective resident/client care. (30/15 and 30 clinical hours.)

*Introduction to Health Occupations*
Level: 10-12  Credit: ½ unit  Prerequisite: None
This class is the exploration of health career pathways in therapeutic, diagnostic, health informatics, and support services. The course will emphasize the need for communication and teamwork as well as the technical skills necessary in the healthcare workforce.

*Nutrition*
Level: 11-12  Credit: ½ unit  Prerequisite: None
Nutrition 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. This is an online course.

*Healthcare Compliance*
Level: 12  Credit ½ unit  Prerequisite: None
Course is 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.

INDUSTRIAL TECHNOLOGY

*Basic Construction Skills*
Level: 11-12  Credit: 1 unit  Prerequisite: Construction & Manufacturing;
(Construction is a blocked course of two periods)
This course provides basic background to the construction industry. Students gain a better understanding of the skills, knowledge, and abilities required to be a successful crafts person. Students who take Construction for the entire year will earn up to eight college credits.

*Construction & Manufacturing I*
Level: 9-12  Credit: ½ unit  Prerequisite: None
This class will be used to cover common tools and practices used in construction and manufacturing. General safety, layout and measurement, computer aided drafting and job skills will also be covered.

**Construction & Manufacturing II**
Level: 9-12  Credit: ½ unit  Prerequisite: Construction & Manufacturing I
This course is a continuation of Construction & Manufacturing I. Projects will be made using woodworking/carpentry tools as well as manufacturing/metals tools including welding.

**Consumer Mechanics**
Level: 9-12  Credit: ½ unit  Prerequisite: None
Students will cover many of the aspects that every automobile consumer should know such as: costs involved in owning an automobile, car care, safety when working with an automobile. We will also cover many of the different types of systems in an automobile such as ignition system, brake system, suspension system, etc. Time will be spent later in the semester taking apart and re-assembling a small engine and learning about the aspects of power.

**Electricity**
Level: 9-12  Credit: ½ unit  Prerequisite: Algebra I
Students will learn about the various aspects of electricity including Ohm’s law, conductors and insulators, resistors and capacitors, parallel and series circuits, and more. By doing electricity lab work students will also have the opportunity to do various hands on activities including some basic house wiring.

**Intro to Welding, Safety, and Health of Welders**
Level: 11-12  Credit: 1/2 unit  Prerequisite: Enrollment in other NICC welding courses
Orientation to the welding profession covering basics of safety and health in the welding profession. This course is part of the NICC Welding Certificate Program.

**Welding Blueprint Reading**
Level: 11-12  Credit: ½ unit  Prerequisite: Enrollment in other NICC welding courses
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. This course is part of the NICC Welding Certificate Program.

**Basic Gas Metal Arc Welding**
Level: 11-12  Credit: ½ unit  Prerequisite: Enrollment in other NICC welding courses
An introductory class studying Short Circuit Gas Metal Arc Welding (GMAW) and other related processes. Studies topics such as process variation, welding in various positions, principal of operation, shielding gases and wires. Stresses safety and practical application of these welding processes. This course is part of the NICC Welding Certificate Program.
**Manufacturing/Metals**
Level: 10-12  Credit: ½ unit  Prerequisite: Construction & Manufacturing
Students will be introduced to some basic metal working skills. Students in this course will study the processes involved in manufacturing. Students will explore a number of materials processing techniques. They will learn how the activities of business and productivity are managed. They will apply this knowledge in a realistic setting by them marketing and selling the product of their labor.

**Manufacturing/Wood**
Level: 10-12  Credit: ½ unit  Prerequisite: Construction & Manufacturing
The student will learn the skills necessary to complete their own project. This class will provide students with a unique and challenging learning opportunity.

**MATHEMATICS**

**Algebra I**
Level: 9-12  Credit: 1 unit  Prerequisite: None
Algebra I includes the basic fundamentals of algebra. Problems are solved using algebraic methods and rules. Students will learn to manipulate algebraic expressions and solve several types of equations. Students must do daily assignments to succeed in this course.

**Algebra II**
Level: 10-12  Credit: 1 unit  Prerequisite: Algebra I, C- in Geometry
Algebra II is an elective college prep course for students who wish to do extensive work in the math and science area. The topics studied in Algebra II include: solutions to linear equations, factoring polynomials, rational expressions, radicals and rational exponents, quadratic equations, complex numbers, coordinate geometry, matrices and determinants, functions and relations, conic sections, logarithmic functions, trigonometric functions and their graphs.

**Algebra A**
Level: 9-12  Credit: 1 unit  Prerequisite: None
Algebra A will be a year-long course. It will cover the same material that is covered in the 1st semester of Algebra I.

**Algebra B**
Level: 9-12  Credit: 1 unit  Prerequisite: Algebra A (passing grade)
Algebra B will be a year-long course. It will cover the same material that is covered in the 2nd semester of Algebra I

**Algebra C**
Level: 10-12  Credit: 1 Unit  Prerequisite: App Geometry or Geometry
Algebra C will be a year-long course. It will cover some of the same material as Algebra II but at a slower pace.
Calculus
Level: 12  Credit: 1 unit  Prerequisite: C- in Pre-Calculus
Calculus is a year-long course. Topics to be studied include: set theory, coordinate geometry, advanced trigonometry, functions, derivatives, applications of the derivative, integration, continuity, limits, differentials, graphs, the definite integral and applications of the integral.

Consumer Math I
Level: 10-12  Credit: ½ unit  Prerequisite: None
Consumer Math I will be a one semester class. It will cover consumer related topics such as figuring wages and withholdings and various banking topics.

Consumer Math II
Level: 10-12  Credit: ½ unit  Prerequisite: None
Consumer Math II will be a one semester class. It will cover consumer related topics such as housing costs, taxes, insurance, and travel expenses.

General Math
Level: 9  Credit: 1 unit  Prerequisite: None
General Mathematics will further the development of the basic concepts in Math. Measurement in the metric and customary systems will be included. The application of the concepts to everyday and career problems will be emphasized so the student will build a stronger foundation onto which they can make the transition to consumer mathematics and other courses in mathematics.

Geometry
Level: 9-12  Credit: 1 unit  Prerequisite: C- in Algebra I
Geometry develops the students’ ability to reason deductively and gives logical problem-solving strategies necessary to go through college prep curriculum. The topics studied include: Direct and indirect reasoning, properties of lines and angles, direct and proofs, congruent triangles and their applications, Constructions, parallel and perpendicular lines, quadrilaterals, polygons, similarity of polygons, circles and lines, areas of geometric figures, and coordinate geometry.

Applied Geometry
Level: 9-12  Credit: 1 unit  Prerequisite: Algebra A or Algebra I
In this course students will learn the important concepts of geometry and how to apply them. At the end of this course students will know how to find the area, surface area and volume of all polygons, important concepts of circles, triangles, and other polygons and some basic trigonometry. There are no geometric proofs in this course making it less rigorous than Geometry.

*Statistics
Level: 11-12  Credit: ½ unit  Prerequisite: Qualifying placement test scores
Introduces the basic methods of statistical reasoning to help develop the ability to summarize data, interpret data and draw conclusions based on the data.
**Pre-Calculus**
Level: 11-12  Credit: 1 unit  Prerequisite: C- in Algebra II  
Pre-Calculus is an elective college prep course. Topics to be studied include: Linear relations with linear programming, theory of equations, matrices, vectors, advanced trigonometry, sequences, series, mathematical induction, polar form of complex numbers, exponential functions, logarithmic functions, straight line, conics (circle, parabola, ellipse, and hyperbola), polar form of conics, permutations, combinations, probability, and a small section on calculus.

**Technical Math**
Level: 11-12  Credit: ½ unit  Prerequisite: Qualifying placement test scores  
Introduces selected topics from algebra and trigonometry with everyday applications to technical areas. Some topics presented include the solution of linear and quadratic equations, trigonometric functions, vectors, graphing, and equations. This class is intended for students planning to pursue a two year technical degree.

**MUSIC**

**Concert Choir**
Level: 9-12  Credit: 1 unit  Prerequisite: JV Choir participation or approval of Director  
Choir studies all aspects of performing in a vocal ensemble. Performances include at least one mass concert performance per quarter -- Fall, Winter, Pops, Spring. This class prepares students to become independent musicians and have a lifelong enjoyment of music. Any student wishing to sing in Concert Choir must do a short audition with Mrs. Palmer. This is done so that a balance between bass and treble voices may be achieved. Students who audition can expect to be assigned to the soprano, alto, tenor or bass parts based on their vocal range, vocal tone quality, and ability to match pitch. Concert Choir is primarily 9-12 grade Bass Voices and 11-12 grade Treble Voices. Students are required to attend voice lessons once every 6-day cycle. Music theory, vocal development, choreography, musical set construction, designing, and painting are also included in the class.

**JV Choir**
Level: 9-12  Credit: 1 unit  Prerequisite: None  
JV Choir is open to all students. Performances include at least one mass concert performance per quarter -- Fall, Winter, Pops, Spring. This class prepares students to become independent musicians and have a lifelong enjoyment of music. Students can expect to be assigned to the soprano or alto based on their vocal range, vocal tone quality, and ability to match pitch. Students are required to attend voice lessons once every 6-day cycle. Music theory, vocal development, choreography, musical set construction, designing, and painting are also included in the class.

**High School Band**
Level: 9-12  Credit: 1 unit  Prerequisite: Junior High band or one semester of lessons  
Band participation requires the student to be present for regularly scheduled classroom rehearsals, sectional rehearsals and an individual lesson every 5 to 6 school days, as well
as participation at all performances. Lessons take place during the school day. Lesson materials are chosen to meet the specific needs of each student. Students earn their grade through a combination of lesson attendance, rehearsal attendance, performance attendance, effort, positive attitude, individual responsibility, and teamwork, which all contribute to the growth and success of the individual as well as the band.

PHYSICAL EDUCATION, HEALTH, DRIVER EDUCATION

Driver Education
Level: 9-12 Credit: None Prerequisite: Learner’s Permit
Driver Education classes are provided through NICC. Contact the Waukon NICC Center for class and registration information.

Health/Safety I
Level: 10 Credit: ½ unit Prerequisite: Required Course
Health/Safety I provides students with the knowledge and experiences to develop their ability to make healthful decisions. The program is designed to build concepts in ten areas that are recommended by both state and national guidelines in Health Education. These ten content areas include: personal health, food and nutrition, safety and accident prevention, prevention and control of disease, sexually transmitted diseases and AIDS, emotional/social health, family life, alcohol, tobacco, and substance use and abuse, environmental health, consumer health, and health careers services. Students will have the opportunity to earn their CPR certification. This course emphasizes what is happening now and how this is related to the student and society as a whole.

Health II
Level: 11-12 Credit: ½ unit Prerequisite: Health/Safety I
This class is a continuation of the Health/Safety I course, but allow more in-depth investigation of current issues in Health Education. The emphasis of the course is on how the issues pertain to the student as an individual and society as a whole.

Behavior Awareness
Level: 9-12 Credit ½ unit Prerequisite: None
The purpose of this course is to help students needing additional behavior support. Students will acquire social skills needed for independent functioning within the community. Topics may include self-regulation, self-control, problem solving, anger control, decision making, and interacting with others. The instructional activities in this course are designed for group discussion, brainstorming, role-playing, allowing to help students understand how to acquire self-confidence in their daily life. Instructional components comprise a) Expressing feelings and self-worth, b) Accepting criticism, c) Proactive social engagement and d) Developing confidence in oneself.

Physical Education
Level: 9-12 Credit: .25 units per year Prerequisite: Required Course
Physical Education contributes to students’ well-being and health, develops fundamental and advanced motor skills, improves students’ self-confidence, and provides
opportunities for increased levels of physical fitness that can be associated with high academic achievement. The patterns of physical activity acquired during childhood and adolescence are likely to be maintained throughout one’s lifetime, providing physical, mental and social benefits. Physical Education at Waukon High School will be divided into different course offerings: Personal Fitness, Individual & Team Sports, Low-Impact Activities, Weight Training for Performance, and Performance Preparation. All units are designed to be co-ed. Students must choose one of the following three offerings:

Course Name: Personal Fitness—Day A  Prerequisite: None
Course Description: This course requires a $15 fee per semester for membership to the Waukon Wellness Center. A limit of 15 students per class is set for this course. Students will be required to change clothes for activity and will be required to have a clean pair of shoes for admittance into the Waukon Wellness Center. Students will be expected to not only follow class rules and procedures, but also those of the Waukon Wellness Center. Students will use heart rate monitors, weight equipment, cardio-vascular equipment, walking track, and racquetball courts to execute a personal fitness plan that they design. Student might have access to the Waukon Aquatic Center for the first weeks in the fall, weather permitting. Some written work and research will be required.

Course Name: Individual/Team Sports—Day B  Prerequisite: None
Course Description: Units will include activities considered by most as team or individual sports. Instructing students of basic rules and strategies while providing them opportunities to raise fitness levels will be the goal of this class. Students will be required to change clothes for activity. A limit of 25 students per class is set for this course. Units will include, but not be limited to: Swimming, Flag Football, Volleyball, Dodgeball, Basketball, Badminton, Soccer, and Softball.

Course Name: Low-Impact Activities—Day C  Prerequisite: None
Course Description: Most units will utilize activities that are considered to have a low-impact on the body while raising student heart rates into their training zones. Heart rate monitors (provided by the school) will be used by students to monitor their success of working in their target training zone. A limit of 20 students per class is set for this course. Units will include, but not be limited to: Swimming, Bocce, Frisbee Golf, Badminton, Aerobics, Indoor Archery, and Golf.

Weight Training for Performance
Level: 9-12  Credit: 1 unit  Prerequisite: Coaches permission
This course will teach advanced methods of strength and conditioning using weights and plyometric training. Some written work and research will be required. This course will be offered 1st period and will take the place of PE class.

PROJECT LEAD THE WAY

*Introduction to Engineering Design
Level: 9-12  Credit: 1 unit  Prerequisite: None
The major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer’s notebook, and communicate solutions to peers and members of the professional community.

**Principles of Engineering**
Level: 10-12  Credit: 1 unit  Prerequisite: Geometry or Intro to Eng. Design
This survey course exposes students to major concepts they’ll encounter in a postsecondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. Students develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.

**Computer Science & Software Engineering**
Level: 11-12  Credit: 1 unit  Prerequisite: None
Using Python and other languages, students develop their own app, create dynamic websites, and construct their own graphical user interface. Introduces students to professional programming languages and platforms and encourages students to use these tools to discover, collaborate and create.

**Civil Engineering and Architecture**
Level: 11-12  Credit: 1 unit  Prerequisite: IED
Introduction of the various aspects of civil engineering and architecture. Knowledge is applied to the design and development of residential and commercial properties and structures. Major course projects are designed using 3D software to design and document solutions for major projects. Solutions are presented to peers and professional engineers and architects.

**SCIENCE**

**Advanced Biology/Criminology**
Level: 11-12  Credit: ½ unit  Prerequisite: 1 year of Biology
Advanced Biology/Criminology is a course designed to teach the student the application of science to a criminal investigation. Through actual case histories the student will explore the impact forensic science has had on the “crimes of a century” like the Lindberg kidnapping and other important cases such as the O.J. Simpson criminal investigation. The focus of the course is on the up-to-date technologies police rely on to apprehend criminal perpetrators and to link them through trace evidence to crime scenes. An emphasis is placed on the DNA typing procedures, new advances in crime scene investigation, the digital imaging enhancement of fingerprints, computerized ballistic examination, drug and alcohol analysis as well as arson and explosion detection technologies. A major portion of the class is devoted to how common items of physical evidence are located at crime scenes, and how they are processed in the crime lab.
**Introduction to Anatomy**

Level: 10-12  
Credit: 1 unit  
Prerequisite: B or better in Physical Science or Biology with a C- or better

Anatomy and Physiology is a year-long activity-based course intended for the student who is interested in learning more about the human body. First semester exploration includes an overview of human body orientation and the skeletal, muscular, and nervous systems. The focus is on human anatomy and labs such as studies of various bones and muscles, human reaction time, fetal pig dissection, and the sheep brain. Second semester is a continuation of first semester studies with labs and virtual activities focused on special senses, and the circulatory, respiratory, digestive, urinary and reproductive systems. The course ends with human reproduction and development. This course is especially helpful for those interested in careers in the health/medical field or taking a college level anatomy course.

**Biology**

Level: 10  
Credit: 1 unit  
Prerequisite: Required Course

Biology is intended as an introductory course to the basic and fundamental concepts that affect all living things. Some of these concepts studied are ecology; cell structure and function; reproduction; genetics; evolution; plant and animal classification; human biology; and environmental problems. Practical application of biological principles and careers exploration will be incorporated in this course.

**Chemistry**

Level: 10-12  
Credit: 1 unit  
Prerequisite: Enrolled in or have taken Algebra II

This course is an introduction to the basic principles of chemistry which provides students with exposure to topics including matter, measurement, atomic structure, chemical periodicity, bonding, nomenclature, equation balancing, the mole concept, stoichiometry, behavior of gases, acids and bases, and reaction rates. Laboratory work is an integral part of this course that reinforces learning concepts and cooperative learning.

**Environmental Science**

Level: 11-12  
Credit: 1/2 unit  
Prerequisite: None

Environmental Science is a one semester activity-based course with a focus on the study of the impact of humans on the environment. It uses applications of biological, chemical, and physical principles to the study of the physical environment and the solution of environmental problems, the interaction between human society and the natural environment, and natural resources management. Topics covered would include scientific principles, renewable energy, fossil fuels, water pollution, air pollution, human population, environmental toxins, and ecology. The focus in the class is on interactive activities, both virtual and actual, and information that students work on individually.

**Advanced STEM Principles**

Level: 10-12  
Credit: ½ unit  
Prerequisite: Prerequisite: B or better in Physical Science or Biology with a C- or better

This survey course exposes students to several STEM based principles. This course will give students the opportunity to develop skills and understanding of concepts based on
activity and problem-based learning using both an individual and team approach. Emphasis is on problem solving, communication, and interpersonal skills. Students will apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. Topics covered will include subjects such as basic engineering and medical design.

**Physical Science**
Level: 9 Credit: 1 unit  Prerequisite: Required Course
Physical Science is a year-long course. The purpose of the course is to study matter and energy. A major goal of this course is to help students develop and understanding of the world around them through sound content and the practice of skills that will help them reach that understanding. Everyday applications of physical laws are emphasized.

**Physics**
Level: 11-12 Credit: 1 unit  Prerequisite: B- or better in Chemistry, Algebra II
Physics is a two-semester course. The first semester includes the applied mechanics of motion, force, gravity, and torque. Mathematical equations will be used throughout to analyze and predict results. The second semester consists of light including reflection, refraction energy transfer and defraction. Application of electricity and electrical devices including measurement technique will be studied.

**General Biology I**
Level: 11-12 Credit: 1 unit  Prerequisite: None
This class is a study of unifying concepts of modern biology with an emphasis on the organization and operation of living systems: metabolism, growth, development, reproduction, and inheritance. This is a block class and will require a minimum of 3-4 hours outside of class to complete assignments. This class may not be offered every year.

**General Biology II**
Level: 11-12 Credit: 1 unit  Prerequisite: None
This class is a survey of the form and function of monerans, protists, fungi, plants, invertebrates, and vertebrates, including a study of their ecological interrelationships and discussions of current environmental issues. This is a block class and will require a minimum of 3-4 hours outside of class to complete assignments. This class may not be offered every year.

**Human Anatomy and Physiology I and Lab**
Level: 11-12 Credit: 1 unit  Prerequisite: C- in Biology
Introduces the structure and function of the human body, beginning with a study of the molecular, cellular and tissue levels and continuing with emphasis on selected organ systems. This is a block class. This class may be offered every other year.

**Human Anatomy and Physiology II and Lab**
Level: 11-12 Credit: 1 unit  Prerequisite: C- in Human Anatomy/Phys I
Continues the study of structure and function of the human body introduced in Human Anatomy and Physiology I, with review of the molecular, cellular, and tissue levels of
organization and emphasis on selected organ systems. This is a block class. This class may be offered every other year.

SOCIAL STUDIES

**Honors U.S. History**
Level: 11 Credit: 1 unit Prerequisite: None
AP History is organized to meet the Advanced placement course requirements in U.S. History. The course will fulfill the U.S. History graduation requirement. The course offers the highly motivated students experiences valuable in preparation for higher education. The student is encouraged (but not required) to take the College Board AP test in the spring. By taking the test and scoring high enough, the student may receive college credit (depending on the college the student will attend). Topics include: Exploration, Colonization, Independence, Jacksonian Era, Civil War, Reconstruction, Industrialization, new Deal Era, World War II, Post War Era, The 60’s, Vietnam, and Recent Times.

**Contemporary World Issues**
Level: 9-12 Credit: ½ unit Prerequisite: None
Contemporary World Issues will examine the issues that face the United States and the world. Examples include: terrorist threats, adverse weather, politics and elections, social uprisings, etc… Students will view a daily current events segment on the internet and then be assigned current events topics to journal and discuss. Students will also do an in-depth analysis of a current topic affecting the world. Weekly current events quizzes.

**Economics**
Level: 12 Credit: ½ unit Prerequisite: Required Course
Economics contains units on government and economic systems, consumer economics, business organization, the labor movement, monetary and fiscal policy, money and banking and rural problems. Economics is designed to help people to understand basic problems they will face in future life.

**Principles of MacroEconomics**
Level: 12 Credit: ½ unit Prerequisite: None
Presents material essential to an understanding of the economic forces at work in our global society: the market system, supply and demand, gross national product, gross domestic product, the banking system, fiscal and monetary policy, international trade, and various economic systems employed throughout the world. *This course will fulfill the Economics graduation requirement.

**Government**
Level: 12 Credit: ½ unit Prerequisite: Required Course
Government contains units on the federal system, courts, constitution, civil rights, citizenship, political activity, and the operation at Federal, State, and Local Governments. All graduates must successfully complete one semester course in American Government.
**Psychology**
Level: 11-12  Credit: ½ unit  Prerequisite: None
Psychology is defined as the scientific study of the mind and behavior. Students will be introduced to the core ideas and theories of psychology. Students may apply knowledge gained from this class to their daily lives. During the semester, we will include as many chapters as possible from the seven American Psychological Association’s recommended content domains: Scientific Inquiry, Biopsychology, Development and Learning, Sociocultural Context, Cognition, Individual Variations, and Applications of Psychological Science.

**Introduction to Sociology**
Level: 11-12  Credit: ½ unit  Prerequisite: None
The basic sociological principles and basic processes of group behavior. Includes the study of social interaction, family and group life, social institutions, status and role, culture, population, structure and change, and community structures (both urban and rural).

**Introduction to Psychology**
Level: 11-12  Credit: ½ unit  Prerequisite: None
A survey of psychology including theoretical and experimental findings and applications from areas such as physiological learning, memory, personality, social abnormal, and therapy, and health psychology.

**Social Problems**
Level: 11-12  Credit: ½ Unit  Prerequisite: None
An introduction to social problems as they relate to the individual, family, community and culture. Students learn to identify these problems, define causative factors and explore solutions. General areas studied include the foundations of social problems, problems of deviance, problems of inequality, problems of social institutions and global social problems. This course will be offered every other year. This may be offered every other year.

**Marriage & Family**
Level: 11-12  Credit: ½ Unit  Prerequisite: None
Approaches marriage and the family or alternatives, from a multi-disciplined perspective to search for our humanness, our relationships and our potentials. The significance and complexities of relationships encourage personal knowledge, reflection and intellectual insight.

**U.S. History**
Level: 11  Credit: 1 unit  Prerequisite: Required Course
U.S. History is organized on a chronological basis beginning with Reconstruction to the present time. Topics include: the study of American documents; Reconstruction; the American West; the Rise of Industrialism; Labor Unions; Farm problems; the Reform Movements; World War I; the 1920s’; the Depression and the New Deal; World War II; the Cold War and Post-War Domestic Issues.
**Western Civilization**  
Level: 9-12  
Credit: ½ unit  
Prerequisite: None  
Western Civilization is a history course organized chronologically. It begins with the study of the Greeks and Romans and their contributions to our world. The unit of the Middle Ages emphasizes its effect on Europe. The Renaissance and Reformation are explored in Unit III. The Age of Revolutions recounts the battle for democratic ideals in Europe. The unit dealing with the Industrial Revolution documents its effect on the present. The last unit examines the devastating results of the wars fought since 1914 to the present time.

**World Geography**  
Level: 9-12  
Credit: 1 unit  
Prerequisite: None  
World Geography is a one year course that provides the students with a comprehensive study of the basic concepts and principles of both physical and cultural geography. The course is designed to meet three major goals. First, the course helps students develop an understanding of the principles of physical geography. Second, the course helps students develop an understanding of the cultural regions of the world. Third, the course helps students build geographic literacy, through which they can gain an appreciation for the earth and its many different people. Constant attention is also given to reading skills, vocabulary and the need for individualization.

**World Cultures**  
Level: 9-12  
Credit: ½ unit  
Prerequisite: None  
World Cultures is a course designed to familiarize students with cultures that are different from our own Western Civilization. The course is divided into five areas: the former Soviet Union; People’s Republic of China; Latin America; the subcontinent of India; and Sub-Saharan Africa. Each area is explored in terms of geography, economic system, political structure, and social organization.

**Human Relations & Community Growth**  
Level: 9-12  
Credit: ½ unit  
Prerequisite: None  
Human Relations is a branch of the study of Psychology, and is designed for students to explore and evaluate the development of healthy human interactions through basic psychological principles. Students will learn to understand, critique, and present how healthy human relationships develop within various communities by looking at the human relationship through social, biological, mental/emotional, and personal contexts. With these contexts in mind, students will also research and propose solutions to improving human interactions/relations in our school and community.