

HUSTISFORD HIGH SCHOOL



COURSE DESCRIPTION BOOKLET
2017 – 2018

AGRICULTURE

INTRO TO FOOD MANUFACTURING

Grades 10-12 ½ Credit per Semester One Year

Students will learn the basic operations involved in the food manufacturing industry. Students will examine components of the food industry and historical development of food products and processing, will apply safety principles; recommend equipment and facility management techniques to the food products and processing industry. Students will also apply principles of science to the food products and processing industry.

SMALL ANIMAL CARE & MANAGEMENT

Grades 9-12 ½ Credit First Semester

Small Animal Care will focus on the care and management of small animals. Animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, facilities, handling and training, and grooming are typical areas of study. Small animals may include species such as: dogs, cats, rabbits, guinea pigs, birds and other pets. Students will participate in many hands-on learning projects

SMALL ANIMALS DOMESTIC AND WILD

Grades 9-12 ½ Credit Second Semester

This course will cover the proper care and management of small animals. We will discuss history, safety, careers, injury and general care, nutrition, breeds, feeds, and diseases of wild and domesticated animals. We will discuss these topics for various species including: more on dogs, cats, etc., plus reptiles, amphibians, fish, ducks and other animals. Students will participate in many hands-on learning projects and help with the annual small animal day/petting zoo.

LARGE ANIMAL SCIENCE I

Grades 9-12 ½ Credit First Semester

Large Animal Care courses focus on the care and management of large animals such as horses, livestock and wildlife. Animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, facilities, handling and training, and grooming are typical areas of Study. Course topics may include product processing and marketing. This course provides a hands-on learning experience by participating in presentations, labs, field trips and other activities.

LARGE ANIMAL SCIENCE II

Grades 9-12 ½ Credit Second Semester
Prerequisite: Large Animal Science I

This course will continue with the study of large animals and their uses. Other animals that may be covered include species of dairy, zoo, marine and other exotics. Topics covered include: parts, breeds, body systems, management, nutrition, facilities, diseases, veterinary science, marketing, genetics, and animal issues such as global warming and cooking ideas. This course provides hands-on learning experiences by doing presentations, labs, and a field trips. Students will participate in many hands-on learning projects and help with the annual small animal day/petting zoo.

WILDLIFE MANAGEMENT I

Grades 9-12 ½ Credit First Semester

This course involves learning about wildlife animals and their environments. This course allows students to investigate a variety of land and animals and their habitats. Students will learn how to become a wildlife expert and improve the environment. First semester will teach many aspects relating to Wisconsin hunting and fishing regulations and safety regarding whitetail deer, ducks, geese, etc. Also includes, forest production and management, wildlife preservations, and human outdoor recreation. This is a hands-on course that is designed for students with an interest in the outdoors (Walking Stick Project).

WILDLIFE MANAGEMENT II

Grades 9-12 ½ Credit Second Semester

This course will involve learning about wildlife animals and their environments with an emphasis on the conservation of natural resources and outdoor recreation topics. Learn about maintaining the land and ecological systems that enable non-domesticated animals to thrive. Learn about endangered, threatened and nuisance animals and issues such classifications create. Wildlife Management courses emphasize how humans and animals may both take advantage of the same land or how to gain economic benefits for the land while not degrading its natural resources or depleting plan or animal populations.

VETERINARY SCIENCE

Grades 10-12 ½ Credit One Semester
Prerequisite: Small or Large Animal Courses

Veterinary Science will teach information about the causes, diagnosis, and treatment of diseases and injuries of animals, typically emphasizing animals that affect our daily lives. Course topics focus on anatomy and physiology, nutrition, behavior, and reproduction, running a veterinary clinic, and other areas of study as appropriate. This is a great course for anyone pursuing a career as a Vet Technician, Doctor of Veterinary Science, Animal Behaviorist, Pre-Medicine, Animal Science Majors or those who just love animals. This course includes a lot of hands-on discovery.

AGRICULTURE LEADERSHIP

Grade 11-12 ½ Credit per Semester
One Semester/One Year

This course involves learning the styles and the importance of leadership in the agriculture, food and natural resources areas. They will be working and learning how to communicate, collaborate, and think outside the box. Other skills will be using critical thinking, problem solving, teambuilding, strategic planning, delegating, and practice ethical behaviors. Leadership Class will also be covering other topics to become a great leader in the workforce and college. Topics may include but are not limited to human relationships and effective communication, decision-making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities.

BUSINESS EDUCATION

ACCOUNTING *

Grade 10-12 1 Credit One Year
Other: Dual Credit through MPTC *

This is a beginner course for those who are planning a career in any business area. Accounting covers the fundamentals of keeping accurate financial records for a business. This includes maintaining financial records for sole proprietorships and partnerships. In addition to recording daily transactions, the preparation of fiscal-ending financial statements and a business payroll accounting system are covered. The entire accounting cycle is brought together by completing a simulation for a merchandising business. Students have the option of earning MPTC credit for work at a C level or above.

OFFICE SUITE COLLEGE PREP *

Grade 10-12 ½ Credit One Semester
Other: Dual Credit through MPTC*

This course is designed for students who wish to expand their knowledge of Microsoft Word, Excel and PowerPoint. These tools are essential for students who will be transitioning to post-high school education. This project-based course allows students to work with guidance in class, but students may need to spend time outside of class to complete all projects as scheduled.

Entrepreneur

Grade 11-12 ½ Credit One Semester

For those students interested in starting their own business as an entrepreneur, this course offers students the unique opportunity to collaborate with the technology department. Students will learn to write a business plan and create a marketing campaign. Working in teams, students will develop a product idea and then work with manufacturing students to create the product. Students will then advertise and sell their products.

PERSONAL FINANCE 1

Grade 10-12 ½ Credit One Semester

This course will help students learn to manage their money now and in the future. Topics covered will include budgeting, banking, checking accounts, savings, investing, credit, setting financial goals, and insurance.

PERSONAL FINANCE 2

Grade 11-12 ½ Credit One Semester
Prerequisite: Personal Finance 1

In this projects-based learning environment, students will focus on personal and consumer math concepts. Expanding on the concepts from Personal Finance 1, student projects will include: budgeting, banking, taxes, educational expenses, cost of living after high school, purchasing a home, car, or other large ticket items, and retirement funding.

GAME IT 1

Grade 10-12 ½ Credit One Semester

This is an introductory level computer programming course. It focuses on programming skills, but also on each discipline related to STEM (science, technology,

engineering and math). Using game design and development as the teaching vehicle, GAME: IT exposes students to a wide range of concepts and technical skills in six separate areas that will greatly help them succeed in the future. GAME:IT's learning objectives were designed to align very closely with ISTE's NETS for students and 21st Century Skills Technology Core Standards.

GAME IT INTERMEDIATE

Grade 10-12 ½ Credit One Semester
Prerequisite: Game It 1

Students build guided games that support some of the functionality required in their own unique game. Collaborating in teams or working independently, students design a storyboard and then create their own video game. Students learn problem-solving and collaborative teamwork. GAME:IT learning objectives were designed to align very closely with ISTE's NETS for students and 21st Century Skills Technology Core Standards.

SUCCESS 101

Grade 9 ½ Credit One Year
Meets every other day Required class

Success 101 engages students in an interactive learning process, helping them develop the knowledge, skills, and attitudes needed to successfully examine their own lives, explore and evaluate a wide range of education and career options, and make reasoned and researched goals for their future. This academically-integrated curriculum is relevant and rigorous. The course culminates with students developing an individualized 10-year plan that motivates them to envision a self-sufficient, productive life beyond high school, college, or post-secondary training.

ONLINE CTE COURSES

Grade level depends on course Credits vary

We offer a variety of online courses in the CTE department. If you are interested in taking a course in this environment, check with our Guidance Counselor for available options.

ENGLISH

ENGLISH 9

Grade 9 1 Credit One Year

Students will learn to use basic grammar, punctuation, spelling, and vocabulary. Students will learn writing skills including complete sentences, paragraph development, short essays, and research papers. Literature will also be studied with an emphasis on short stories, poetry, drama, and novels. Speech and study skills will be stressed through daily assignments.

HONORS ENGLISH 9

Grade 9 1 Credit One Year
Prerequisite: Instructor Approval

This class is designed to be more challenging and rigorous. More difficult assignments will be assigned, with select assignments being independently completed. Students will refine their use of grammar, punctuation, spelling, and vocabulary. Students will learn writing skills including complete sentences, paragraph

development, short essays, and research papers using correct MLA documentation. Students will gain an understanding of the different types of writing. Literature will also be studied with an emphasis on short stories, poetry, drama, and novels.

ENGLISH 10

Grade 10 1 Credit One Year

English 10 is an integrated approach to reading, writing, listening, and speaking curriculum based on the Common Core State Standards Initiative in English and Language Arts. This course is a balanced, comprehensive program that develops skills in reading and writing, speaking and listening and fosters the appreciation of language arts. Students will continue to apply the knowledge and skills acquired in English 9, but in a more refined and sophisticated form.

HONORS ENGLISH 10

Grade 10 1 Credit One Year
Prerequisite: Instructor Approval

This class is designed to be more challenging and rigorous. More difficult assignments will be assigned, with select assignments being independently completed. Students will refine their use of grammar, punctuation, spelling, and vocabulary. English 10 is an integrated approach to reading, writing, listening, and speaking curriculum based on the Common Core State Standards initiative in English and Language Arts. This course is a balanced, comprehensive program that develops skills in reading and writing, speaking and listening and fosters the appreciation of language arts. Students will continue to apply the knowledge and skills acquired in English 9, but in a more refined and sophisticated form.

ENGLISH 11

Grade 11 1 Credit One Year

This course will include grammar review, vocabulary development, literature, ACT practice, college essay writing, other various writing exercises, and understanding media. Within the media unit, a commercial and radio program will be developed. Writing exercises and literature selections will prepare students for other upper level English electives and senior level composition courses.

ADVANCED COMPOSITION

Grade 12 ½ Credit One Semester

This course is designed for students who plan to attend a university or technical college. Writing will include many different types of short essays. One major research paper, using correct MLA documentation, will be required. Two novels will be discussed.

COMMUNICATIONS 12

Grade 12 ½ Credit One Semester
No Prerequisite

This course will help to strengthen the communication skills of our seniors as they prepare for life after high school. The process of communication is explored while refining written, oral, and technology communication skills.

CREATIVE WRITING

Grades 11-12 ½ Credit One Semester

Students will practice a variety of writing designed to increase creativity and enhance grammar skills. Students will write a variety of stories, poems, fables, and other pieces of writing. A booklet of an individual's work will be compiled at the end of the semester.

NOVELS

Grades 11-12 ½ Credit One Semester

Students in this class will read and analyze a variety of novels from classic through contemporary literature. Student choice will be included in the novels selected for study. Each novel will be studied through group discussion and student-driven research and inquiry. Group research projects and presentations are also featured in order to further understand a novel's influence in areas such as universal message, impact on society, and historical context. Novels that have been made into movies will also be examined for comparison and discussion.

ONLINE ENGLISH COURSES

Grade level depends on course Credits vary

We offer a variety of online courses in English. If you are interested in taking an English course in this environment, check with our Guidance Counselor for available options.

FAMILY & CONSUMER EDUCATION

PARENT AND CHILD

Grade 9-12 ½ Credit One Semester

Students will study the factors that influence the development of children and the demands of the job of a parent. Emphasis will be placed on the emotional, cognitive, social, and physical growth of infants, toddlers, pre-school children, and the school-age child. Students will examine costs of parenthood, using effective communication, developing strong families, positive discipline, and responding to children's needs. Students will also become aware of pre-natal development, sudden infant death syndrome, and shaken baby. The use of a baby simulator may be used but is optional.

FOODS 1

Grade 9-12 ½ Credit One Semester
Fee: \$30

Emphasis is placed on Food Preparation Techniques. Students will understand and practice a large variety of food preparation techniques. Students will learn to correctly identify & use kitchen utensils, read recipes, measure accurately, and to practice food & kitchen safety procedures. Students will practice the work skills expected in the food service industry.

FOODS 2

Grade 9-12 ½ Credit One Semester
Prerequisite: Foods 1
Fee: \$30

Students will study how food is flavored, study how cooking alters food, how to plate food, various garnishing techniques, and study the baking principles of baking cakes, breads, and pastry. Emphasis will be placed on practicing culinary arts skills expected in the food service

industry and will include the study of the science of food preparation.

FLAVORS OF WISCONSIN

Grades 9-12 ½ Credit One Semester
Prerequisite: Foods 1
Fee: \$30

Students will explore the various food products that are grown and produced in Wisconsin. Students will study how products grow and are harvested. They will prepare recipes that use these WI products. Study will include nutritional analysis, cost comparisons, safeguarding our family health, meal planning, shopping for food, and choosing kitchen equipment. Students will make connections on how our agriculture, climate, & ethnicity has shaped Wisconsin cuisine. Students are expected to follow kitchen safety procedures as expected of the food service industry.

FOOD & TRAVEL

Grade 9-12 ½ Credit One Semester
Fee: \$10

Students will study the Hospitality & Tourism Industry; which includes jobs in lodging, food & beverage, tourism, sports & entertainment. Students will practice roles and responsibilities of work during the operation of a restaurant simulation. They will learn about work, read job ads, complete job applications, understand interview skills, and practice employability skills.

HOUSING

Grade 9-12 ½ Credit One Semester

Students will study housing options from a consumer point-of-view as well as study architectural styles and how designers use the elements of design. Students will learn and practice using vocabulary linked to the Housing Industry. Students will practice drawing floor plans and using architectural symbols. Job opportunities in the Housing Industry will be researched.

CULINARY ARTS INDEPENDENT STUDY

Grade 12 ½ Credit One Semester
Prerequisite: Instructor Approval
Fee: \$30

Students will plan out their course of study. They will be able to choose areas of culinary arts which they wish to explore in deeper detail. Students will be responsible for setting their own goals and schedule.

MEDICAL OCCUPATIONS 1

Grade 11-12 ½ Credit One Semester

Students will learn over 200 medical terms. Students will also research various occupations in the Health Care Industry. Students study the history of medicine, organization of health care, patient rights, ethical/legal responsibilities, basic skills of health care workers, infection control, vital signs, and the impact of nutrition on our health. This class will help prepare students who are interested in pursuing a career in Health Care.

MEDICAL OCCUPATIONS 2

Grade 11-12 ½ Credit One Semester
Prerequisite: Medical Occupations 1

This course is an in depth study of the body systems; skeletal, muscular, digestive, nervous, cardiovascular, reproductive, respiratory, and sensory. Students will understand the anatomy & physiology of these systems. They will research diseases that affect these various body systems and the health care careers that treat them. Students will continue to expand their knowledge of medical terminology. They will also study geriatric care and diseases of the elderly.

ONLINE CTE COURSES

Grade level depends on course Credits vary

We offer a variety of online courses in the CTE department. If you are interested in taking a course in this environment, check with our Guidance Counselor for available options.

FINE ARTS

DRAWING

Grade 9-12 ½ Credit One Semester
Fee: \$10

This course provides the art student with opportunities to learn realistic drawing techniques. Students will understand the use of design principles to create a good composition. Various media and technique will be explored throughout this class.

PAINTING

Grade 9-12 ½ Credit One Semester
Fee: \$10

This course will teach students painting techniques using a variety of paint types. Students will understand color theory and basic design principles as they apply to painting.

CERAMICS I

Grade 9-12 ½ Credit One Semester
Fee: \$10

Students will learn to use hand building techniques and to create functional and decorative art forms out of clay. Students will use several surface treatments such as piercing, appliqué, incising, mixed media, under glazing, textures and resist enhancing their clay art forms. Students will also be introduced to the wheel.

CERAMICS II

Grades 9-12 ½ Credit One Semester
*Prerequisite is Ceramics I

Students will utilize skills gained in Ceramics I and take their skills to the next level. Students will continue to create art forms from clay and enhance their technique. Students will also work with the wheel to create pieces of work.

SCULPTURE

Grade 9-12 ½ Credit One Semester
Fee: \$10

This course is designed for the student who wishes to explore ideas and materials that can be made three-dimensional. Stress will be on the concepts of modeling, carving, and constructing sculptural forms in materials such as clay, metal, paper, wood, plaster, wire, or other non-traditional materials.

ART INDEPENDENT STUDY

Grades 10-12 ½ Credit One Semester
Prerequisite: Instructor approval
Fee: \$10

Students in this class will choose something they want to explore in depth such as figure drawing or a technique like watercolor or throwing on the potter's wheel. Students will discuss with the instructor the projects they want to do and set a schedule for progress check points and completion dates.

PRINTMAKING

Grade 9-12 ½ Credit One Semester
Fee: \$10

Students will learn how to create a drawing and transfer it into an edition of prints in black & white and color. They will understand the use of design principles to create a good composition. Students will use a variety of materials such as non-tradition objects, linoleum and rubber to produce prints.

DIGITAL PHOTOGRAPHY

Grades 9-12 ½ Credit One Semester

Student will learn to capture and compose images and will develop composition skills. Photographic composition will be studied and students will gain insights that will help them to take better pictures. Students will also learn the history and development of photographic technology while exploring its importance in various careers. Post production including Photoshop will be a major focus of the class.

FUNCTIONAL ART

Grades 9-12 ½ Credit One Semester

Students will explore functional art through problem solving. Possibilities may include beading, jewelry making, tie-dying, silk painting, glass etching, or painted furniture but the possibilities are endless. This is a great class opportunity for students who want to explore beyond traditional art.

BAND

Grade 9-12 1 Credit One Year

The senior high band is a year-long program in which students will expand upon musical concepts covered in junior high band. Students will play a variety of intermediate to advanced repertoire in an ensemble setting. Students will broaden his/her knowledge of music history, theory, improvisation, and composition, and musical expression. Sectional work, lessons, rehearsals, and all performances required. All instruments welcome.

CHORUS

Grade 9-12 1 Credit One Year

The senior chorus is a class in which students will build upon the skills previously learned in junior high chorus, by singing two and three part music, as well as, getting an introduction to four-part music. The class will continue to focus on basic musicianship skills along with sight-reading practice to help students to increase their ability to read music. They will also learn how to constructively critique their own abilities. Previous choral experience is not required; however, it would be helpful. Attendance is required at all concerts and rehearsals.

MUSIC THEORY

Grade 9-12 ½ Credit One Semester
Prerequisite: Instructor Approval

Music Theory integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and to some extent history and style. Musicianship skills such as dictation and other listening skills, sight-singing, and keyboard harmony are considered an important part of the theory course. The student's ability to read and write musical notation is fundamental to this course. It is strongly recommended that the student will have acquired at least basic performance skills in voice or on an instrument. The ultimate goal of this course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in sheet music.

FOREIGN LANGUAGE

SPANISH I

Grade 9-12 1 Credit One Year

Spanish I is an introduction to the Spanish language. Students will develop an ability to use Spanish for basic conversation and increase their understanding of Hispanic cultures. Introductory vocabulary and simple grammar structures will be used to communicate and express ideas. Students will use the Spanish language on a daily basis for speaking, reading, writing and listening.

SPANISH II

Grade 10-12 1 Credit One Year
Prerequisite: Spanish I

Students will build on the base they have established in Spanish I. Increased vocabulary and continued study of grammar will be important components of the class as we aim to improve the students' ability to communicate in a variety of real life situations. Students will be expected to use the Spanish language on a daily basis for speaking, reading, writing and listening.

SPANISH III

Grade 11-12 1 Credit One Year
Prerequisite: C+ or better in Spanish II and approval of instructor
Other: Spanish Dictionary Recommended

Students will build on the base they have established in Spanish I & II. Increased vocabulary and continued study of grammar will continue to be important components of the class, and there will be an increased emphasis on reading comprehension. Students will be expected to use the Spanish language on a daily basis for speaking, reading, writing and listening.

SPANISH IV

Grade 12 1 Credit One Year
Prerequisite: C+ or better in Spanish III and approval of instructor
Other: Spanish Dictionary Recommended

Students will build on the base they have established in previous levels. We continue to expand our vocabulary and knowledge of Spanish grammar and improve our reading comprehension. Students will have increased emphasis on writing and increasing their knowledge of Hispanic cultures. Students will

be expected to use the Spanish language in class on a daily basis for speaking, reading, writing and listening.

ONLINE FOREIGN LANGUAGE COURSES

Grade level depends on course Credits vary

We offer a variety of online courses in the CTE department. If you are interested in taking a course in this environment, check with our Guidance Counselor for available options.

MATH

Pre-Algebra

Grade 9 1 credit One Year

The course is designed to help students for preparation in high school mathematics, emphasizing the concepts necessary to be successful in Algebra I and II. The course helps students to develop good mathematical study skills and learning strategies as an integral part of this course.

ALGEBRA I

Grade 9-10 1 Credit One Year
Other: - TI-84 Graphing Calculator Required
- TI-89 only if planning to take Calculus

This course covers areas including: properties of sets of real numbers, solving linear equations, linear functions, inequalities, algebra and geometry, radical expressions and equations, graphing and algebraic equations.

GEOMETRY

Grade 9-12 1 Credit One Year
Prerequisite: Algebra I

This course examines the mathematical definitions and properties of many planar and spatial geometric figures. Through Euclidean Geometry the student understands and uses deductive reasoning, analysis and inductive reasoning with further strengthening of algebraic skills.

ALGEBRA II

Grade 10-12 1 Credit One Year
Prerequisite: Geometry
Other: - TI-84 Graphing Calculator Required
- TI-89 only if planning to take Calculus

Solving equations and problems involving variables; factoring quadratic equations; manipulating fractions with variables; using common formulas; squaring and cubing numbers; multiplying and dividing radicals; and solving irrational equations.

PRE-CALCULUS

Grade 11-12 1 Credit One Year
Prerequisite: Algebra II
Other: TI-84 Graphing Calculator Required
TI-89 only if planning to take Calculus

This course studies trigonometry, uses mathematical functions to identify the domain and range, form compositions, find inverses, graph, and solve real-world problems.

CALCULUS (AP)

Grade 12 1 Credit One Year
Prerequisite: Pre-Calculus
Other: TI-89 Graphing Calculator Required

This is a college level class and follows the curriculum of the advanced placement program. After completing this course students may choose to take the advanced placement AB Calculus test. Main topics the class will address are limits, derivatives, and integrals.

PROBABILITY AND STATISTICS

Grade 11-12 1 Credit One Year
Other: TI-83 recommended

Probability and statistics covers both of these two related topics of mathematics. Probability is the measure of the likelihood of the occurrence of a certain event. Statistics is the study of the analysis and organization of data. Students will explore math concepts with an emphasis on real-world applications.

Consumer Math

Grade 11-12 1 credit One Year

Consumer Math will cover basic math skills that are relevant in our everyday world. Students will learn skills that will help bridge the gap between just learning mathematical procedures and using them in everyday situations with the practical exercises

ONLINE MATH COURSES

Grade level depends on course Credits vary

We offer a variety of online math courses, including honors and AP level courses. If you are interested in taking a course in this environment, please contact our Guidance Counselor for available options.

PHYSICAL EDUCATION & HEALTH

HEALTH

Grade 9 ½ Credit One Semester

This course will develop skills for use throughout the student's lifetime. Topics will include: nutrition; emotional health; social health; physical health; suicide prevention; alcohol, tobacco, and drug prevention; sex education; goal setting; refusal skills; and communicating effectively.

PHYSICAL EDUCATION

Grade 9-12 ½ Credit One Semester

This course is designed to introduce students to physical activities, physical fitness, and lifetime activities. Students will participate in a variety of indoor and outdoor sports and games, individual and team activities. Students must dress in appropriate workout clothing and shoes.

SCIENCE

BIOLOGY

Grade 9 1 Credit One Year

This course deals with the physical and chemical properties of human life with such areas of study such as: chemistry relating to life, cell metabolism, cell growth, cell division, systems of the human body, relationships between structure and function, the study of animal life, survey of the major phyla, invertebrate animals, trees, cell parts, cellular processes, enzymes, and ecology. This course

will be a blend of lectures and labs. Biology is designed to hopefully encourage the students in pursuing careers in biology or simply wishing to learn more about the dynamic world of animals.

CHEMISTRY

Grade 10 1 Credit One Year

Chemistry is the study of matter and energy and how they change. This course investigates the structure and composition of matter (from the simple atom through different types of compounds and mixtures), the states of matter, physical changes (changes in state), and chemical changes (bonding and chemical reactions). Specific areas of study include the atom, periodic law, chemical reactions, stoichiometry, behavior of gases, gas laws, equilibrium, acids, bases, and salts.

PHYSICS

Grade 11-12 1 Credit One Year
Fees: \$65

Physics is the fundamental science dealing with matter and energy. This course is a study of Newtonian mechanics, including 1- and 2-dimensional motion, force, work and energy, power, torque, and waves. Students must be comfortable with mathematical operations.

Human Anatomy and Physiology

Grade 11-12 1 credit One Year

This course is designed for students with a love and passion for learning how the human body works. The class emphasizes the relationships between the structures of human organs with the functioning of those organs. Understanding how the body maintains a biological balance (Homeostasis) and relates to our surroundings is a must for a proper functioning body. This class will be of special interest to students pursuing health - related careers and profession.

WI Environmental Science

Grade 11-12 1 credit One Year

This course is designed for students to explore Wisconsin and its surrounding states in the Midwest. The class emphasizes the relationships between nature and humans. Basic ecology principles are applied to current environmental issues in our local areas and surrounding states in the Midwest with the focus on the use of natural resources, environmental ethics, and pollution, recycling, energy use, alternative energy sources, animals, and habitat loss

SOCIAL STUDIES

WORLD HISTORY

Grade 9 1 Credit One Year

In this course, students will trace the development of human beings in establishing civilizations from the first civilization in Mesopotamia through the Scientific Revolution in Europe. Emphasis will be placed on Greco-Roman culture and European history as it relates to the development of American ideals.

US HISTORY

Grade 10 1 Credit One Year

Beginning with the Civil War, this course will continue both topically and chronologically to

the present time. Each unit will be developed completely and, as in the previous year, cover the inter-relationship of American History, economics, government, and sociology.

HONORS US HISTORY

Grade 10 1 Credit One Year
Prerequisite: Instructor Approval

Honors U.S. History is designed as an honors level survey course focused on the origins of our country through current times. Students who elect to take this course should be able to work with greater independence and responsibility than is expected in U.S. History. The more rigorous content level and pace of this course will be achieved through a blended learning environment. Online learning as well as project-based learning, focusing on research and inquiry, will be featured.

AMERICAN GOVERNMENT

Grade 11 1 Credit One Year

This course is a study of the various systems of government in the world, concentrating on the history, development, and structure of government in the United States with an emphasis on individual and group rights as well as current events.

HONORS AMERICAN GOVERNMENT

Grade 11 1 Credit One Year
Prerequisite: Instructor Approval

Honors American Government is designed as an honors level survey course focused on the structure and functions of American Government and the American Political System. This course is a natural progression through the social studies curriculum for students who successfully completed Honors US History. Students who elect to take this course should be able to work with greater independence and responsibility than is expected in American Government. The more rigorous content level and pace of this course will be achieved through a blended learning environment. Online learning as well as project-based learning, focusing on research and inquiry, will be featured.

CURRENT EVENTS

Grade 10-12 ½ Credit One Semester

This semester course deals with vital issues that appear at the state, national, and International level. Topics will include: crime; welfare; terrorism; local, state, and national political issues; controversial issues; the economy, scientific achievements, environmental issues; and public affairs.

ECONOMICS

Grade 11-12 ½ Credit One Semester

Economics is the study of how individuals, businesses, and governments make decisions about the use of scarce resources in a world of unlimited wants and needs. This semester course aims to provide students with a functional knowledge in economics in order to become informed consumers, producers, and citizens in today's world. Students will be involved in many student-driven research and inquiry projects during this class. Students will also learn about the art of investing through their participation in the stock market simulation game run through Economics Wisconsin. This

course is useful in helping students to acquire many life-long skills, and also in establishing a foundation for a more advanced study of economics.

PSYCHOLOGY (AP)

Grade 11-12 ½ Credit One Semester

Students in this class will study how scientific methods can be applied to understanding human behavior. This course will cover many core concepts of a typical college Introductory Psychology course. A large part of the curriculum will be assimilated through student-driven research and inquiry into the following areas of psychology: early history of psychology, how the brain works, sensation and perception, altered states of consciousness, learning, memory, and psychological disorders. Students can choose upon completion to take the Advanced Placement Test.

SOCIOLOGY

Grade 10-12 ½ Credit One Semester

Sociology will help students to become familiar with the basic concepts, principles, and practices of human society. They will gain a better understanding of human behavior which we observe at home, in school, in our community, and in society. They will also learn about the problems faced by many in American society today including: abuse, racism, discrimination, crime, poverty, and aging.

HISTORY OF AMERICAN WARS

Grade 10-12 ½ Credit One Semester

Class begins with the Revolution and continues through the war on terrorism. Discussions and projects will center around reasons for the wars, people and countries involved, victors, after affects, civilian participation, etc.

ONLINE HISTORY COURSES

Grade level depends on course Credits vary

We offer a variety of online history courses, including honors and AP level courses. If you are interested in taking a course in this environment, please contact our Guidance Counselor for available options.

TECHNOLOGY EDUCATION

WOODS & COMPOSITES 1

Grade 9-12 ½ Credit One Semester
Fee: \$25.00
Other: Safety goggles required

Students will learn how to use precision measuring tools, read a print, layout a project, and the safe use of hand and power tools. Shop experience will include the use of hand tools, power tools, and machines to manipulate wood and composite materials. Introductory projects will be provided.

WOODS & COMPOSITES 2

Grade 9-12 ½ Credit One Semester
Prerequisite: Woods & Composites 1
Fee: \$25.00
Other: Safety goggles required

Students will improve their skills from Woods & Composites 1. Projects will be provided for experiences with cabinetmaking, finish-detail

woodworking, and multiple materials within a project using wood and composites materials.

METALS FABRICATION

Grade 9-12 ½ Credit One Semester
Fee: \$25.00
Other: Safety goggles required

Students will learn how to use precision measuring tools, read a print, layout a project, and the safe use of hand and power tools. Shop experience will include welding and metal fabrication. Fabrication projects will be provided.

METALS MACHINING

Grade 9-12 ½ Credit One Semester
Fee: \$25.00
Other: Safety goggles required

Students will learn how to safely set up and correctly operate a manual mill, lathe, surface grinder, and other tooling. CNC programming will be introduced. Machining projects will be provided.

ADVANCED MATERIALS AND PROCESSES

Grade 10-12 1 Credit One Year
Prerequisite: Woods or Metals
Fee: \$25.00
Other: Cost of project materials & supplies
Safety goggles required

Students will use their skills and experiences from their Metals and Woods classes to design and build advanced projects. They will have opportunities to prepare for career growth in the manufacturing industry through job shadowing and school to work options, with the potential for a youth apprenticeship. CNC programming will be advanced from their prior classes along with continued experiences with machine tools. This class will work closely with the Business Department to provide the engineering and production for an entrepreneurial project as proposed by the Business Manufacturing correct class.

COMPUTER AIDED DESIGN

Grade 9-12 ½ Credit One Semester

Students will use SolidWorks software to gain mechanical CAD experience, design validation, and data management skills needed by the manufacturing industry. SolidWorks certifications are available for students who excel in the CAD program and pass related skills tests. These certifications are recognized throughout the manufacturing industry. Job opportunities are very realistic with the completion of this class.

COMPUTER AIDED MANUFACTURING

Grade 9-12 ½ Credit One Semester
Prerequisite: Computer Aided Design

Students will be challenged to use their design skills to bring their CAD items to reality. They will use SolidWorks software and comparable machining software to design, create tool paths, and create items using CNC machining. This will lead to producing multiple items through assembly from the items they develop.

HOME REPAIR

Grade 9-12 ½ Credit One Semester
Other: Safety Goggles Required

Students will learn how to safely make repairs and improvements to their home. They will learn basic home electrical, stud wall build and repair, drywall, paint, plumbing and other skills necessary to repair and make improvements to their own homes. Students will also use CAD software to create and plan for their own home design.

ROBOTICS

Grade 9-12 ½ Credit One Semester
Other: Safety Goggles Required

Students in Robotics will design a battling robot from the ground up. Students will keep an engineering journal that will contain their brainstorming sketches, refinement sketches, research notes and meeting notes. They will also develop parts for the robots using Solid Works 3D modeling software. Students will develop components for the team engineering documentation binder and also be involved with the machining and tooling of parts. In addition to machining students will need to assemble components, sub-assemblies, and assemblies including mechanical and electrical systems. Completed bots may be entered into BotsIQ competitions.

INDEPENDENT STUDY

Grades 11-12 ½ credit one semester
Prerequisite: 2 credits of Tech related courses/Instructor Approval
Fee: All material for projects are supplied by student
Other: Safety glasses required

Students will plan, design, and construct projects of their own selection with teacher approval. Students must complete the following prior to signing up for this class:

- two credits of Tech Ed related course-work.
- submit a written request to the Tech Ed teacher.
- write a statement outlining personal achievement goals for the semester.

OTHER COURSES

JHE MENTOR

Grade 11-12 ½ Credit One Semester
Prerequisite: Approval of school counselor

Students in this mentoring program will work with students at John Hustis Elementary. This is an excellent opportunity for high school students to serve as positive role models for our district's younger students. Those seeking credit will be required to complete coursework/reflections.

MIDDLE SCHOOL MENTOR

Grade 11-12 ½ Credit One Semester
Prerequisite: Approval of school counselor

Students in this mentoring program will work with students in the middle school. This is an excellent opportunity for high school students to serve as positive role models for our district's middle school students. Those seeking credit will be required to complete coursework/reflections.

JUMPSTART

Grade 9-12 1 Credit One Year
Prerequisite: Approval of administration

The purpose of this course is to build a collaborative community that will support students in fostering academic and behavioral skills that will lead to positive choices in the high school environment and beyond.

YOUTH OPTIONS

Grade 11-12 Varies One Semester
Other: - Youth Options guidelines apply
- Application deadlines apply

Any student meeting the eligibility requirements set forth by the state may participate in one or more courses at a Wisconsin technical college or institution of higher education. The school board policies regarding Youth Options and state Youth Options guidelines must be followed for students in this program. Possible approved courses would include those not comparable to those offered at Hustisford High School.

YOUTH APPRENTICESHIP

Grade 12 ½ Credit One Semester
Teacher recommended

Youth Apprenticeship (YA) integrates school-based and work-based learning to instruct students in employability and occupational skills defined by Wisconsin industries. Local programs provide training based on statewide youth apprenticeship curriculum guidelines, endorsed by business and industry. Students are instructed by qualified teachers and skilled worksite mentors. Students are simultaneously enrolled in academic classes to meet high school graduation requirements, in a youth apprenticeship related instruction class, and are employed by a participating employer under the supervision of a skilled mentor. Certified work-based learning (WBL) programs are opportunities whereby students can achieve academic competence while focusing on career and technical education careers. The program is coordinated and supervised by school district staff so that there is a strong connection between classroom learning and the work experience.

ONLINE COURSES

Online courses will meet in a class just like any other class. Students have the opportunity to take courses we are unable to offer in the district but they must be approved by the guidance office. These courses are for students who are self-guided and self-motivated. Student must receive recommendation by the Guidance Counselor and/or teacher to participate in an online course.

NON-DISCRIMINATION POLICY

No person may be denied admission to any public school or be denied participation in, be denied the benefits of, or be discriminated against in any curricular, extra-curricular, pupil services, recreational, or other program or activity because of the person's sex, race, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional, or learning disability (Wisconsin Statute 118). Any complaints regarding possible discrimination should be reported to the District Administrator of the Hustisford School District, 845 South Lake Street, Hustisford, WI 53034

Substitution of any required courses in order to accommodate students with exceptional education interest, needs, or requirements, or who are classified "at-risk" will need administrative approval and become a part of the student's permanent records.

HUSTISFORD HIGH SCHOOL: FOUR YEAR SCHEDULE SAMPLE

Freshman Year

English 9	1.0
World History	1.0
Biology	1.0
Algebra I or Geometry or Pre-Algebra	1.0
Physical Education	0.5
Health	0.5
<i>Success 101</i>	<i>0.5</i>
<i>Elective</i>	<i>0.5</i>
<i>Elective</i>	<i>1.0</i>
<i>Elective or Study Hall</i>	

Sophomore Year

English 10	1.0
U.S. History	1.0
Chemistry	1.0
Geometry or Algebra II or Alg. 1	1.0
Physical Education	0.5
<i>Elective</i>	<i>0.5</i>
<i>Elective</i>	<i>1.0</i>
<i>Elective</i>	<i>1.0</i>
<i>Elective or Study Hall</i>	

Junior Year

English 11	1.0
American Government	1.0
Algebra II or Pre-Calculus or Geometry	1.0
Physical Education	0.5
<i>Elective</i>	<i>0.5</i>
<i>Elective</i>	<i>1.0</i>
<i>Elective</i>	<i>1.0</i>
<i>Elective</i>	<i>1.0</i>
<i>Elective or Study Hall</i>	

Senior Year

Advanced Composition or Communications 12	0.5
English Elective	0.5
Physical Education	0.5
Fiscal Literacy	0.5
<i>Elective</i>	<i>1.0</i>
<i>Structured Study</i>	

COLLEGE ADMISSION REQUIREMENTS

UW - MADISON	Minimum for Application	Typical for Admission
English	4 years	4+ years
Algebra	1	1
Geometry	1	1
Advanced Math	1	2+
Social Studies	3	4
Science	3	4
Single Foreign Language	2	3+
Additional Academic/Fine Arts	2	2+
Total Units	17	21+

UW - MILWAUKEE	Minimum for Application
English	4 years
Algebra	1
Geometry	1
Advanced Math	1
Social Studies	3
Science	3
College Prep Electives (including Foreign Language)	2
Additional Academic/Fine Arts	2
Total Units	17
<p>Note: Foreign language is not an admission requirement. However, you are required to complete no less than two college semesters of the same foreign language to graduate from UWM. You may satisfy this requirement by successfully completing two years of the same language at the high school level.</p>	

College Entrance Examinations (ACT & SAT)

All of the state universities and all of the private colleges and universities in Wisconsin require either the ACT or SAT. Some fields in the technical colleges may require them also. Some schools require certain minimum scores. For more information on which schools require which tests, see the guidance counselor. The ACT is taken during the second semester of the junior year in March.

Grading Scale	
A	92.5 - 100
A-	89.5 - 92.49
B+	87.5 - 89.49
B	82.5 - 87.49
B-	79.5 - 82.49
C+	77.5 - 79.49
C	72.5 - 77.49
C-	69.5 - 72.49
D+	67.5 - 69.49
D	62.5 - 67.49
D-	59.5 - 62.49
F	Below 59.5

NON-DISCRIMINATION POLICY

No person may be denied admission to any public school or be denied participation in, be denied the benefits of, or be discriminated against in any curricular, extra-curricular, pupil services, recreational, or other program or activity because of the person's sex, race, religion, color, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional, or learning disability (Wisconsin Statute 118). Any complaints regarding possible discrimination should be reported to the District Administrator of the Hustisford School District, 845 South Lake Street, Hustisford, WI 53034.

The Hustisford School District is an Equal Opportunity Employer