

Course Description Book 2021-2022



Washington High School



Students and Parents,

This course description booklet has been created to assist you in planning your academic future. Descriptions of course offerings have been written by instructors to help students select courses according to their program of study.

Washington High School encourages students to challenge themselves when they select courses to better prepare them for their future.

When scheduling your classes, it is crucial that you plan carefully and make appropriate choices. It will be difficult for you to change or drop classes once school begins.

These registration materials have been created to assist you in course selections for the upcoming school year. We hope you will find this course description book to be informative and useful. If you have any questions about the course registration process, please stop in and visit with our counselor.

You may also access the registration handbook at the district website, www.ccsd.k12.ia.us. Click on Washington High School and then scroll down to WHS Course Description Handbook.

Mr. Thomas Ryherd
Principal
712-225-6755

Ms. Jolleen Heater
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712-225-6755

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General Information

Equal Education Opportunity Policy

The Cherokee Community School District does not discriminate on the basis of age, race, national origin, creed, socio-economic status, religion, sex, disability, sexual orientation, gender identity or marital status in educational programs or employment.

If you have questions or concerns about any policy or procedure of the district please contact
 Dr. Kimberly Lingenfelter, Equity Coordinator,
 600 West Bluff Street
 Cherokee, Iowa 51012.
 (712) 225-6767
klingenfelter@ccsd.k12.ia.us

Purpose of this Handbook

The purpose of this book is to acquaint students and parents with the grading policies, scheduling policies, and subject offerings at Cherokee Washington High School. It is important for students and parents to read it carefully, consider the student's ability, past achievements, career interests, and then plan a course of study.

Your counselor can play an important role in helping plan a course of study. Your counselor will be working with you individually at registration and is available for questions by phoning 712-225-6755. Please make use of this resource as you plan your course of study. It is the responsibility of the student and their parents to verify with colleges on their admission requirements.

Requirements for Graduation

Forty-nine (49) credits are needed to graduate from Cherokee Washington High School. Graduation from Cherokee Washington High School requires eight semesters of attendance unless early graduation is applied for and granted according to the Cherokee Community School Board's policy for early graduation.

Washington High School Graduation Credit Requirements

49 Credits Required

Each course is 1 credit per semester (= Year long course for a total of 2 credits)*

English Language Arts	Science	Social Studies	Mathematics
Required 8 Credits	Required 6 Credits	Required 6 Credits	Required 6 Credits
English 9* English 10* English 11*	Science 9* Biology*	Modern American History* World History* American Government Economics <i>(Required for Class of 2022-24)</i>	Pre-Algebra* Algebra A* Algebra B* Algebra I* Geometry* Consumer Math* Algebra II* Pre-Calculus* <small>(Math sequence will vary according to entry level math course taken)</small>
Electives 2 Credits Required (1 Literature + 1 English)	Electives	Electives	Electives
Films as Literature World Literature British Literature Novels Contemporary Literature Creative Writing College Prep Writing Career & Technical Writing Publications* Oral Interp/Acting Mythology	Environmental Science Forensic Science Introductory Biology (BIO 105) Natural Resources & Ecology Oceanography Scientific Research & Design AP Biology* Chemistry* Advanced Chemistry Physics* Human Anatomy & Physiology I (BIO 168) Human Anatomy & Physiology II (BIO 173)	Psychology Sociology Geography Current Issues History through Films	Applied Math (MAT 772) Calculus Calculus (MAT 211) Statistics (MAT 157)
Required: Health 1 credit (must include CPR training) & Physical Education All graduates must have 1 credit from either the Career Tech or Fine Arts Departments			

Early Graduation

A student who plans to graduate early from Cherokee Washington High School must have completed a preliminary application procedure on or before November 1 of the year s/he plans to graduate. The preliminary application is available in the Guidance Department. To be considered for early graduation, a student must have successfully completed the required credits minus the P.E. credits for the semester they will miss due to the early graduation. In addition, the student's parents/guardians, the counselor and the principal must endorse the petition for early graduation before the request is recognized and approved. We urge parents and students to analyze and discuss the advantages and disadvantages of early graduation and arrive at a mutually acceptable plan before making a final decision. School personnel will gladly serve as a resource for responding to questions, providing information, and assisting in discussing your concerns. The parents and the student must assume the ultimate responsibility for this educational decision.

Graduation Ceremony

Only those students successfully completing all of the requirements for graduation, as stated above, will be allowed to participate in the Washington High School commencement exercises. Student participation in the commencement ceremony is not required.

Transcripts

Official transcripts with the school seal will be mailed/uploaded by the high school to schools or agencies upon request of the student or parent. Students requesting transcripts for themselves will receive a copy without the official seal.

Course Availability

In order for a class to be taught, the course must have a sufficient number of registrants. If there is insufficient interest in a particular course, the course will not be offered during the upcoming school year.

Alternative Credit Options

Students are allowed to take up to five credits toward Washington High School graduation requirements through an alternative credit program i.e., Western Iowa Tech. Students must fail a required credit once before being allowed to earn a required credit through an alternative option. Grades received through an alternative credit option will not be figured into a student's cumulative grade point average. It is the student's responsibility to provide the office with an official transcript of alternative program credits to be applied toward Washington High School graduation requirements. Application for alternative credit options must be made through the Guidance Department.

GREAT START (GS) Courses

Juniors, Seniors and identified TAG Freshmen and Sophomores can participate in Great Start (GS), which allows them to take college level courses per semester from an approved post-secondary level institution. All seniors must be registered for the equivalency of **7 credits** (3 college credits =1 WHS credit). **If a GS class is failed/dropped after the official college drop date, the student will get a Withdraw Fail (WF) on college and high school transcripts.**

Concurrent enrollment courses will need to follow WITCC grading guidelines as these are college classes.

Note: By regulation of the Iowa Department of Education, students are limited to 23 postsecondary credit hours in one academic year.

Required Course Load For WHS Students

All students must be enrolled in a minimum of 7 credits per semester at Washington High School. Any class the school pays for will be included in the student's GPA. More detailed information may be obtained from your counselor.

Schedule Changes

Students will have five days to add/drop a class during 1st and 3rd quarters and if a student is taking a full schedule (8 out of 8 classes) they are allowed to drop a class up to the 10th week of school; if they are passing the class they are dropping they will receive a withdrawal; if a student is failing the class they want to drop they will take a WF (Withdraw Fail). In rare circumstances, a schedule change may occur at the discretion of guidance counselor and principal when deemed appropriate through the 10th week of school (Students will receive a withdrawal if they have a passing grade at the change of schedule or an WF (Withdraw Fail) if they have a failing grade). Students who take a withdraw fail, are academically ineligible and will be under the Scholarship Rule of ineligibility for 30 consecutive days.

Changes may be made ONLY for the following reasons:

1. Failure in a required course attempted a previous semester
2. Approved level changes by teacher and counselor
3. Special education placement
4. Significant change in college or career planning
5. Seniors who need courses for graduation
6. Required course not on schedule
7. Failure to have necessary prerequisite for a course
8. Student already has credit in the scheduled class
9. Newly registered student - no previous schedule
10. Adding a class which does not disturb the rest of the schedule

Schedule changes will not be made for student convenience. Schedule change forms must be completed and approved before the drop is official. They are available online from the Washington High school website under WHS Guidance. These forms will need to be printed off and filled out by the required entities.

Adding/Dropping a Class

Schedule Change Request

_____ Date: _____
Last Name First Name MI

Please put a checkmark in the reason stated below for a schedule change:

____ 1. Failure in a required course attempted a previous semester

____ 2. Approved level changes by teacher and counselor

____ 3. Special education placement

____ 4. Significant change in college or career planning

____ 5. Seniors who need courses for graduation

____ 6. Required course not on schedule

____ 7. Failure to have necessary prerequisite for a course

____ 8. Student already has credit in the scheduled class

____ 9. Newly registered student-no previous schedule

____ 10. Adding a class which does not disturb the rest of the schedule

Schedule changes will not be made for student convenience. Schedule change request forms must be completed before the drop is official. They are available online on the WHS Guidance page.

Class Name	Add	Drop	Teacher Signature

FOLLOW THE ORDER FOR SIGNATURES

1. Student Signature: _____

2. Parent Signature: _____

____ Request Approved

____ Request Denied

Grade Point Average and Purpose of Grades

Grade point average is figured by dividing the sum of the grade points earned by the total credits attempted. Grade points for grades given are as follows:

A	4.00
A-	3.67
B+	3.33
B	3.0
B-	2.67
C+	2.33
C	2.0
C-	1.67
D+	1.33
D	1.0
D-	.67

Grade point average is figured using **semester** grades and is updated at the end of each semester. All grades earned, except those from an alternative credit program, are used in determining grade point average. Class rank is updated each semester and is based on cumulative grade point average.

Purpose of Grades: to communicate students' learning progress to students, parents, teachers, and administrators.

Incomplete Grades

The maximum time allowed to make up an incomplete will be one week. For the 4th quarter the deadline is the last teacher workday of the school year. The exceptions to the above deadlines are that seniors must have all work completed by the last school day for seniors and in the event of a prolonged excused absence from school just prior to and/or during the end of the quarter. In extraordinary cases, the administration may waive these deadlines and set a deadline that would be reasonable for circumstance.

College Admissions Requirements

Iowa's State Universities * South Dakota's State Universities * University of Nebraska

	University of Iowa	Iowa State University	University of Northern Iowa	South Dakota Universities	University of Nebraska
English	4 years	4 years	4 years	4 years	4 years
Mathematics	3 years (e)	3 years (e)	3 years (f)	3 years	4 years (g)
Laboratory Science	3 years	3 years	3 years	3 years	3 years
Social Studies	3 years	2 years (b)	3 years	3 years	3 years
Foreign Language	2 years (a)	2 years (c)	(h)		2 years
Fine Arts				1 year (i)	
Electives			2 years (d)		

- (a) Must complete 4 years to graduate from the university; students who have taken the requisite years in high school have fulfilled these requirements.
- (b) 3 years for College of Liberal Arts & Sciences
- (c) Requirement for College of Liberal Arts and Sciences, and the College of Engineering (3 years of HS Foreign Language will fulfill the college Foreign Language requirement)
- (d) Could be Foreign Language or other core course selections
- (e) 4 years of math for the College of Engineering
- (f) Including Algebra 1, Algebra 2 and Geometry
- (g) Must be Algebra 1, Algebra 2, Geometry and an additional course that builds on concepts learned in Algebra 2
- (h) No foreign language required for admission, but two years of a foreign language is required to graduate from UNI (can be taken in high school or college)
- (i) Recommended but not required

TO BE SURE OF WHAT ALL THE REQUIREMENTS ARE FOR ADMISSION TO A COLLEGE PLEASE CONTACT THE COLLEGE'S ADMISSION OFFICE TO VERIFY INFORMATION.

Student Athlete Information

RAI Score for admission to any of the three Iowa Regent universities:

Iowa resident students who achieve at least a 245 RAI score and who meet the minimum high school course requirements are automatically offered admission to any of the three Regent universities.

Primary RAI Formula

- Percentile rank X 1
- + ACT composite score X 2
- + Cumulative GPA X 20
- + Number of years of high school core courses X 5

RAI Score

RAI APPROVED CORE COURSES				
<i>Regents Admissions Index</i>				
ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	WORLD LANGUAGES
British Literature	Algebra I	Science 9	American Government	Spanish I
Contemporary Literature	Algebra 1B	Biology	Current Issues	Spanish II
Creative Writing	Algebra 2	Chemistry	Economics	Spanish III
College Prep Writing	Geometry	Human Anatomy & Physiology I and II	Modern American History	Spanish IV
World Literature	Pre-Calculus	Physics	Psychology	
Oral Interpretation/ Acting	Calculus	AP Biology	Sociology	
Novels	Calculus 1 (MAT 211)	Advanced Chemistry	World History	
Mythology	Statistics (MAT 157)			
English I, II, III				

NCAA/NAIA Information

Athletic ability is a specialty that can make a difference in the college admissions and financial aid process. At most colleges, athletics are regulated by the rules established by the NCAA (National College Athletic Association) or NAIA (National Association of Intercollegiate Athletics). The recruitment and enrollment of college athletes are governed by the NCAA's and NAIA's rules.

To be eligible to participate at the NCAA Division I or II level and NAIA, where full athletic scholarships are awarded students must be certified as eligible by the www.eligibilitycenter.org or <http://www.playnaia.org>.

Suggestions for student athletes:

- Inform your high school coach and counselor that you are interested in playing that sport in college.
- Register with the NCAA or NAIA Eligibility Center by the end of your junior year.
- Become familiar with the NCAA/NAIA rules regarding the recruitment of athletes.
- Make an appointment with your counselor to assure that you are taking courses approved from an approved core curriculum.

NCAA Eligibility Center Approved Courses				
English Language Arts	Social Sciences	Mathematics	Natural/Physical Sciences	Additional Core Classes
American Literature	American Government	Algebra I	Anatomy and Physiology I	Spanish I
British Literature	Current Issues	Algebra II	Anatomy and Physiology II	Spanish II
College Prep Writing	Economics	Algebra A (.5 units max)	Biology	Spanish III
English I, II, III	Intro to Psychology	Algebra B (.5 units max)	AP Biology	Spanish IV
Films as Literature	Modern American History	Calculus	Chemistry	
Mythology	Sociology	Geometry	Advanced Chemistry	
Novels	World History II	Pre-Calculus	Physics	
World Literature		College Calculus	Science 9	

[NCAA Eligibility Center Brochure](#)

16 Career Clusters

Career Clusters represents a distinct grouping of occupations and industries based on the knowledge and skills they require. The 16 Career Clusters and related Career Pathways provide an important organizing tool for schools to develop more effective programs of study (POS) and curriculum.

Please follow the link for information:

<https://www.careertech.org/sites/default/files/CareerClustersPathways.pdf>

Career Pathways:

Administrative Office Assistant, Nursing, Welding & Automotive

Please stop in the Guidance Counselor's Office for a detailed list of courses in each of these pathways.

CAREER TECHNICAL EDUCATION

AGRICULTURE

324 AGA: 114 PRINCIPLES OF AGRONOMY

Credit: 1

Offered 1 Semester

Available to Grades 11-12

Prerequisite: Introduction to Agriculture, Food, and Natural Resources

This course presents the information necessary to understand the reasons and methods of soil and crop management. The course provides answers to practical crop production questions and introduces students to further study of the sciences involved.

322 AG BUSINESS

Credit: 1

Offered 1 Semester

Available to Grades 10-12

Prerequisite: Introduction to Agriculture, Food, and Natural Resources

This course introduces the fundamental concepts of agriculture business within the framework of how the agriculture industry operates and functions in a global economy. It focuses on the basic principles of the issues and concepts that agricultural businesses and markets encounter.

299 AG LEADERSHIP THROUGH GLOBAL EYES

Credit: 1

Offered 1 Semester

Available to Grades 10-12

Prerequisite: Introduction to Agriculture, Food, and Natural Resources

Agriculture Leadership courses help students develop leadership skills with a focus on opportunities in the food, fiber, and natural resources industries. 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.

323 AGS: 113 SURVEY OF THE ANIMAL INDUSTRY

Credit: 1

Offered 1 Semester

Available to Grades 11-12

Prerequisite: Introduction to Agriculture, Food, and Natural Resources

This lecture course introduces the student to the global animal science industry. All specialized areas of animal science will be studied including nutrition, reproduction, genetics, health, and behavior. All major domesticated species of animals will be available for study.

301 INTRODUCTION TO AG, FOOD, AND NATURAL RESOURCES

Credit: 2

Yearlong Course

Available to Grades 9-10

Prerequisite: None

Students' experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. This course is structured to enable all students to have a variety of experiences that will provide an overview of the fields of agriculture science and natural resources so that students may continue through a sequence of courses through high school. In addition, students will understand specific connections between lessons and supervised agricultural experiences and FFA components that are important for the development of an informed agricultural education student.

308 PRINCIPLES OF AG SCIENCE – ANIMAL

Credit: 2

Yearlong Course

Available to Grades 10-12

Prerequisite: Introduction to Agriculture, Food, & Natural Resources

Students experiences will involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. Throughout this course students will consider the perceptions and preferences of individuals within local, regional, and world markets. Students will explore hands-on projects, activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock products, and industry, personnel, face in their respective careers.

321 PRINCIPLES OF AG SCIENCE – PLANT

Credit: 2

Yearlong Course

Available to Grades 10-12

Prerequisite: Introduction to Agriculture, Food, & Natural Resources

Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students will discover the value of plant production and its impact on the individual, the local, and the global economy. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective career.

BUSINESS EDUCATION

420 ACCOUNTING I

Credit: 2

Yearlong Course

Available to Grades 10-12

Prerequisite: None

The main purpose of the course is to give the student a background in accounting methods used in a sole proprietorship business and a corporation, as well as a background to be used in further college or career & technical education courses. Calculating taxes and completing bank reconciliation are also a part of this course. A workbook is used for the problems that are assigned to simulate real world experience. Practice sets for a proprietorship and a corporation are used to further enhance the learning process. Students will also be exposed to automated accounting using computer software.

425 ACCOUNTING II

Credit: 2

Yearlong Course

Available to Grades 11-12

Prerequisite: 2 credits in Accounting I

This course is designed to provide additional knowledge of accounting procedures not covered in the accounting first year course. Areas of study include: a review of basic accounting procedures for a partnership and a corporation, accrued income and expenses, and unearned revenue and prepaid expenses. Students will use a ruled workbook and business simulations to enhance the learning experience. Accounting II students will also be exposed to an automated accounting program on the computer. (This class is a must for those entering Accounting Programs at the college level.)

400 ACC 111: INTRODUCTION TO ACCOUNTING**Credit: 1****Offered 1 Semester (Spring)****Available to Grades 11-12****DUAL CREDIT COURSE****Prerequisite: Accounting I**

This course is designed to teach the key concepts and skills required to record a variety of accounting entries for both a service and merchandising business, to prepare financial statements, to record payroll entries, to prepare payroll records and to utilize good cash management skills. These skills learned will prepare students for direct job entry as small business owners and entrepreneurs. These accounting concepts are applied to a variety of companies.

406 ADM 105: INTRODUCTION TO KEYBOARDING**Credit: .5****Offered 1 Semester (Fall) (in conjunction with ADM 131)****Available to Grades 9-12****DUAL CREDIT COURSE****Prerequisite: None****Corequisite: ADM 131**

This course emphasizes keyboard mastery. It was designed to develop accuracy, speed, and control of the keyboard. Through completion of the lessons, students advance toward a minimum competency level of 30 gross words per minute (GWAM) on a 3-minute official time with a maximum of 3 errors.

407 ADM 131: OFFICE CALCULATORS**Credit: .5****Offered 1 Semester (Fall) (in conjunction with ADM 105)****Available to Grades 9-12****DUAL CREDIT COURSE****Prerequisite: None****Corequisite: ADM 105**

This course teaches students how to use the numeric keypad with speed and accuracy using industry standards for data entry. Attaining proficiency on three employment tests used by three large interstate corporations helps the student meet the employment standards.

408 ADM 162: OFFICE PROCEDURES**Credit: 1****Offered 1 Semester (Spring)****Available to Grades 9-12****DUAL CREDIT COURSE****Prerequisite: None**

This course familiarizes the student with the many dimensions of the professional secretary's position in a modern day office, such as the personal traits, telephone skills, communication, processing capabilities, office supplies and equipment, and material utilization. The specific job skills introduced are utilization of business resources, making travel arrangements, arranging meetings and conferences and performing banking responsibilities. The student will be equipped to handle these functions in a modern day office, and will refine skills associated with communication effectively in the office.

449 BRAVE DESIGNS- BUS

Credit: 2

Yearlong Course

Available to Grades 10-12

Prerequisite:

Students must complete an application/interview process to be reviewed by the instructor(s), principal and guidance counselor.

[Application](#)

Students applying for BRAVE Designs must have completed one of the following classes..

-Intro to FCS(limit 8)

-Accounting I(limit 10)

-Woods or Metals I(limit 12)

Join the BRAVE Designs class as we explore the intricate world of business! Students will be able to choose one of the business focus areas (Graphic Design, Industrial Technology, and Business Management) to gain a hands-on knowledge of the workplace and the workings of a business.

-Students who have completed Intro to FCS: Students will work with various technologies to design and create graphic apparel and other vinyl products for sale.

Students who have completed Accounting I: Students will work to market, sell, inventory, and do business accounting for items sold.

Students who have completed Industrial Technology Class: Students will work with various technologies to design and create wooden and/or metal products for sale.

405 BUSINESS LAW

Credit: 1

Offered 1 Semester

Available to Grades 10-12

Prerequisite: None

In the business curriculum, business law is perhaps the one content-type course that is of value to all students whether or not they specialize in business. Business law is fundamental for social control and knowledge of it is essential to intelligent action in everyday living. It deals in many areas. Some of the units are as follows: laws, contract, insurance, motor vehicles, juvenile law and property law.

486 CSC 116: INFORMATION COMPUTING

Credit: 1

Offered 1 Semester (Fall)

Available to Grades 11-12

DUAL CREDIT COLLEGE COURSE

Prerequisite: None

This course presents the basic concepts of information systems and computer literacy. The course incorporates theory as well as hands-on practice, which focuses on spreadsheets and database management systems (DBMS).

410 ENTREPRENEURISM

Credit: 1

Offered 1 Semester

Available to Grades 10-12 Grades

Prerequisite: Introduction to Business

This semester course is designed to show students the necessary skills to effectively organize, develop, create, and manage their own business. Students will assess their current skills against the skills necessary to become a successful entrepreneur. Students will also examine and evaluate the essential skills to determine why they are important entrepreneurial skills. Business ideas will be evaluated and a business plan will be prepared. Students will research business trends, market share, and real estate pricing, and marketing. Additional topics will focus on local opportunities and available assistance, legal issues and record keeping. Students may create and run a business during this class.

268 FINANCIAL PLANNING

Credit: 1

Offered 1 Semester

Available to Grades 10-12

Prerequisite: None

This course is designed to introduce and help students develop the skills and strategies that are helpful in becoming more productive individuals. Topics include goal setting; personal management, budgeting, saving, and investing.

400 INTRODUCTION TO BUSINESS

Credit: 1

Offered 1 Semester

Available to Grades 9-12

Prerequisite: None

This semester course should give a solid basis for those students considering further studies in business in high school and college as well as offering useful and practical aspects of living to any students. It gives background information on the free enterprise system in the three possible roles a student plays: as a worker, as a consumer and as a citizen in the economy.

440/445 WORK-BASED LEARNING

Credit: 1 or 2

Offered Each Semester/Yearly

Available to Grade 12

Prerequisite: Approved application, & taken classes related to the job placement

Work-based learning opportunities are available in various businesses in the Cherokee community. Work-based learning links the school's academic and occupational course of study with supervised on the job training. The experiences are relevant to the student's identified career goal. Work-based learning students are released from school one or two class periods per day for their paid or non-paid job. All jobs must be assigned and approved by the work-based learning coordinator. Students must fill out an application and go through an interview with the worked-based learning coordinator, a guidance counselor, and/or the principal. Placement will depend upon application, interview, student grades and job availability.

Applications for Work-Based Learning can be picked up in the Counselor's Office.

[Work-Based Learning Student Application](#)

Family Consumer Sciences

458 INTRODUCTION TO FCS

Credit: 1

Offered Each Semester

Available to Grades 9-12

Prerequisite: None

This course focuses on helping students explore the many different topics found within the family and consumer sciences. Topics include (but are not limited to) foods and nutrition; textiles and apparel; child development and parenting; housing and interior design; personal finance; interpersonal relationships; and careers in the family and consumer sciences.

Students are required to pass Intro to FCS with a minimum of a C (73% or higher) in order to take Culinary 1, Culinary 2, Fashion Design, Human Growth & Development, Housing Design, and Interpersonal Relationships.

449 BRAVE DESIGNS-FCS

Credit: 2

Yearlong Course

Available to Grades 10-12

Prerequisite:

Students must complete an application/interview process to be reviewed by the instructor(s), principal and guidance counselor.

[Application](#)

Students applying for BRAVE Designs must have completed one of the following classes..

-Intro to FCS(limit 8)

-Accounting I(limit 10)

-Woods or Metals I(limit 12)

Join the BRAVE Designs class as we explore the intricate world of business! Students will be able to choose one of the business focus areas (Graphic Design, Industrial Technology, and Business Management) to gain a hands-on knowledge of the workplace and the workings of a business.

-Students who have completed Intro to FCS: Students will work with various technologies to design and create graphic apparel and other vinyl products for sale.

Students who have completed Accounting I: Students will work to market, sell, inventory, and do business accounting for items sold.

Students who have completed Industrial Technology Class: Students will work with various technologies to design and create wooden and/or metal products for sale.

462 FAMILY AND INTERPERSONAL RELATIONSHIPS

Credit: 1

Offered 1 Semester

Available to Grades 9-12

Prerequisite: Intro to FCS

This course was designed to help students understand the importance of creating healthy relationships. Students will explore the functions of various relationships, how personal character affects relationships, communication in relationships, & conflict prevention & management.

461 HOUSING DESIGN

Credit: 1

Offered 1 Semester (Spring)

Available to 9-12 Grades

Prerequisite: Intro to FCS

This course is designed to help students explore the many different aspects of housing and interior design. Topics will include the elements and principles of design; traffic patterns and flow; affordability in housing; and the creation of floor plans. This class will be primarily project based and students will have the opportunity to design their own housing utilizing technology.

457 HUMAN GROWTH AND DEVELOPMENT

Credit: 1

Offered 1 Semester (Spring)

Available to Grades 10-12

Prerequisite: Intro to FCS

This course will focus on the development and growth of the human from conception and infancy to the elderly stage and death. A special focus will be placed on ages 0-18 and students may have the opportunity to use the RealCare Baby® Simulation.

441 CULINARY I

Credit: 1

Offered each semester

Available to Grades 9-12

Prerequisite: Intro to FCS

This course will help students build an understanding of the fundamentals of foods and nutrition. Students will learn about the various food groups and types of food. A major emphasis will be placed on nutrition and food safety. Students will have multiple opportunities to apply knowledge in the kitchen lab.

442 CULINARY II

Credit: 1

Offered each semester

Available to Grades 10-12

Prerequisite: Culinary I and Intro to FCS

This course is a continuation of Culinary 1. Students will explore topics such as meal planning, dietary restrictions, and continue to develop culinary skills in the kitchen lab.

463 FASHION DESIGN

Credit: 1

Offered 1 Semester (Spring)

Available to Grades 9-12

Prerequisite: Intro to FCS

This course is designed to help students foster creativity as they explore the many different aspects of the textiles and apparel industry. Topics will include the elements and principles of design; common textiles and care; the manufacturing process; the retail industry; and various styles of clothing. A special focus will be directed at the debate surrounding fast fashion.

Industrial Arts

449 BRAVE DESIGNS- IND ARTS

Credit: 2

Yearlong Course

Available to Grades 10-12

Prerequisite:

Students must complete an application/interview process to be reviewed by the instructor(s), principal and guidance counselor.

[Application](#)

Students applying for BRAVE Designs must have completed one of the following classes..

-Intro to FCS(limit 8)

-Accounting I(limit 10)

-Woods or Metals I(limit 12)

Join the BRAVE Designs class as we explore the intricate world of business! Students will be able to choose one of the business focus areas (Graphic Design, Industrial Technology, and Business Management) to gain a hands-on knowledge of the workplace and the workings of a business.

-Students who have completed Intro to FCS: Students will work with various technologies to design and create graphic apparel and other vinyl products for sale.

Students who have completed Accounting I: Students will work to market, sell, inventory, and do business accounting for items sold.

Students who have completed Industrial Technology Class: Students will work with various technologies to design and create wooden and/or metal products for sale.

487 INTRODUCTION TO CONSTRUCTION

Credit: 4

Yearlong Course (This class will be 2 consecutive periods each day for a full year)

Available to Grades 9-12

Prerequisite: None-Limit 12

This course is designed to acquaint students with the safe handling of construction materials, with machines and hand tools. The students will cover topics including safety use of tools, measurement and layout building footprint, wall construction, roof construction. Lab work will depend on availability of construction projects.

490 DRAFTING

Credit: 1

Offered 1 Semester

Available to Grades 9-12

Prerequisite: None- Limit 10

This introductory course is designed to acquaint students with the printed language of industry. The students will cover topics including ANSI lettering, tools, constructions, shape description and size description. Additional units will cover sketching, pictorials (oblique-isometric-perspective), sectioning, stretch-outs, and auxiliary views. Students will use Chief Architect, CAD, SolidWorks, Blender, and 3D Printing.

482 METAL WORKING

Credit: 1

Offered at least 1 Semester

Available to Grades 9-12

Prerequisite: None- Limit 6

This introductory course is designed to acquaint students with the safe handling of metals, with machines and hand tools. The students will cover topics including safety, measurement and layout, and the fundamentals of the different welding processes.

480 WOODS I

Credit: 1

Offered each semester

Available to Grades 9-12

Prerequisite: None- Limit 12

This introductory course is designed to acquaint students with the safe handling of wood, with machines and hand tools. The students will cover topics including safety, measurement and layout, cutting wood, cutting wood joints, adhesives, wood properties, finishing techniques, project step planning, man-made wood products. There are two required projects and a personal project chosen by the student.

481 WOODS II

Credit: 2

Yearlong Course

Available to Grades 10-12

Prerequisite: WOODS I (B+ or higher) & Instructor Permission

This advanced course is an independent projects class for students to explore the various woods areas, in the production of furniture or cabinets. The students will demonstrate safe shop practices while producing projects. Drawings, plan of procedure, and bill of materials will be made for each project.

COMPUTER SCIENCE

COMPUTER SCIENCE

439 COMPUTER SUPPORT SPECIALIST

Credit: 1

Offered Each Semester

Available to 9-12 Grades

Prerequisite: Technology Director approval

This course covers the basic hardware of a chromebook, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers.

252 CODING

Credit: 1

Offered 1 Semester (Fall)

Available to 10-12 Grades

Prerequisite: Algebra I (or A & B) and Intro to Computer Science

Coding is a class that introduces students to the foundational concepts of computer programming. Coding explores the technical challenges and questions that arise from the need to represent digital information in computers and transfer it between people and computational devices. The majority of the class introduces the foundational concepts of computer programming, which unlocks the ability to make rich, interactive apps. This course uses JavaScript as the programming language, and App Lab as the programming environment to build apps, but the concepts learned in these lessons span all programming languages and tools. The third unit allows the students to use Boe-Bots as a learning platform to explore the world of cyber, electronics and entry-level programming.

435 INTRO TO COMPUTER SCIENCE

Credit: 1

Offered Each Semester

Available to Grades 9-12

Introduction to Computer Science introduces students to computers and peripheral devices, the functions and uses of computers, the language used in the computer industry, applications of computers, and occupations related to computer hardware and software. This course will explore legal and ethical issues associated with computer use, as well as how computers influence modern society. Students will also perform some computer operations.

436 JAVA PROGRAMMING

Credit: 1

Offered 1 Semester (Spring)

Available to Grades 10-12

Prerequisite: Coding

Java Programming provides students with the opportunity to gain expertise in computer programs using the Java language. The emphasis is on how to structure and document computer programs, using problem-solving techniques. Topics covered in the course include syntax, I/O classes, string manipulation, and recursion.

433 ROBOTICS

Credit: 1

Offered 1 Semester (Spring)

Available to Grades 10-12

Prerequisite: Coding

Robotics develops students' skills and knowledge so that they can design and develop robotic devices. Topics covered in the course may include mechanics, electrical and motor controls, computer basics, and programmable logic controllers.

434 VIRTUAL REALITY

Credit: 1

Offered Each Semester

Available to Grades 9-12

Prerequisite: None- Limit 12

This Independent Study course, conducted with instructors as mentors, enables students to explore topics of interest related to the Virtual Reality Education Pathfinder program. This course may serve as an opportunity for students to expand their expertise with the Blender software, to explore 3D animation in greater detail, or to develop more advanced skills related to the program. 2nd Semester is contingent on teacher's approval.

ENGLISH LANGUAGE ARTS

LITERATURE

151 ENGLISH 1

Credit: 2

Yearlong Course

REQUIRED for Grade 9

Prerequisite: None

This is a required one-year English course that includes the coverage of a variety of skills such as reading literature, writing several genres, note taking strategies, and vocabulary building. Students will consider varying perspectives/ themes through a variety of literature. Various genres of written work are required.

153 ENGLISH II

Credit: 2

Yearlong Course

REQUIRED for Grade 10

Prerequisite: English I

In this required year long English class, students will encounter a variety of literature, writing, and film. Students will be studying vocabulary as well as the following forms of literature: short stories, novels, non-fiction pieces, and plays. Students will also study and produce several forms of writing, including a research paper.

157 ENGLISH III

Credit: 2

Yearlong Course

REQUIRED for Grade 11

Prerequisite: English II

This course will focus on writing, speaking, and American Literature. Students will be writing in a variety of formats, essays, manuscripts, short stories, and poetry. Students will also be learning the art of effective rhetoric through formal and informal speeches. The literature will focus on the genres of poetry, plays, novels, essays, journals, speeches and short stories.

156 BRITISH LITERATURE

Credit: 1

Offered 1 Semester

Available to Grades 10-12

Prerequisite: Teacher Approval

British Literature is an elective course that fulfills a Language Arts or Literature requirement. This course will focus on several different types of genre such as poetry, novel, drama, epics, legends, and visual narratives (film). Students will be expected to read outside of class and be prepared for class discussion. There will be several eras in British Literature we will be studying including the Anglo-Saxon Period, Middle Ages, Renaissance, and Romantic period. In this course, you will be immersed in British Culture, literature, and history.

164 STRATEGIC READING I

Credit: 2

Yearlong Course

Prerequisite: Placement based on results of MAP & ISASP testing and teacher recommendation

This research-based course is designed to improve students' reading abilities through modeled and guided practice of various reading strategies, as well as collaborative comprehension tasks, independent reading practice, and vocabulary development.

165 STRATEGIC READING II

Credit: 2

Yearlong Course

Prerequisite: Placement based on results of MAP & ISASP testing and teacher recommendation

Continuation of modeled and guided practice of various reading strategies, as well as collaborative comprehension tasks, independent reading practice, and vocabulary development.

158 FILMS AS LITERATURE

Credit: 1

Offered 1 Semester

Available to Grades 11-12

Prerequisite: None

Films as Literature is a one-semester elective course that fulfills a Language Arts literature requirement. This course is a course designed to examine a film as a piece literature, and for its cinematic qualities. This class has strong emphasis on 21st century critical thinking skills. Students will study various film genres. Students will be expected to develop their own short film. This course will teach how to use the editing tool in iMovie. Other film projects include a PSA, Music Video, etc.

150 MYTHOLOGY

Credit: 1

Offered 1 Semester

Available to Grades 10-12

Prerequisite: None

Myths are traditional stories that have endured over a long time. This course will focus on the myths of ancient Greece and Rome, as a way of exploring the nature of myth and the function it plays for individuals, societies, and nations. We will also pay some attention to the way the Greeks and Romans themselves understood their own myths. This course will investigate myths through a variety of topics, including the creation of the universe, the relationship between gods and mortals, human nature, religion, the family, love, madness, and death. *Qualifies as an English Elective*

155 NOVELS

Credit: 1

Offered 1 Semester

Available to Grades 10-12

Prerequisite: None

This is an elective literature or language arts course. Students will read world literature including prose, drama, and a novel. Students will also share on Cultural Fridays--these days students will bring in information about cultures from around the World. Written work will be focused on reflective and essay writing. This class is a great way to learn about other cultures and explore your personal interests and ideas.

160 WORLD LITERATURE

Credit: 1

Offered 1 Semester

Available to Grades 10-12

Prerequisite: Teacher Approval

This is an elective literature course. Students will read world literature including prose, poetry, drama, essays and a novel. Literature will come from many countries such as Italy, Greece, France, Russia, Latin America, and many other areas. Students will also share on Cultural Fridays--these days students will bring in information about cultures from around the World. This class's assessments will focus on written work. This written work will be focused on reflective and essay writing.

ORAL AND VISUAL COMMUNICATION

174 ORAL INTERPRETATION/ACTING

Credit: 1

Offered 1 Semester (Fall)

Available to Grades 9-12 (Grades 10-12 get 1st Preference)

Prerequisite: None

This elective course is an introductory course to the stage. This course is designed to help the student feel more comfortable speaking in a variety of public settings. This course will cover improvisation, lip sync participation, Readers Theatre, mime, speech writing and delivery, and combat mime. Activities will include class and public performances. You must participate in order to earn a passing grade. This is the course to get involved with a variety of age groups.

WRITING

186 CREATIVE WRITING

Credit: 1

Offered 1 Semester

Available to 11-12 Grades

Prerequisite: None

Students in this course will generate free writing in a journal, study models of good writing, and experiment with poetry, various genres, and prose. Students will develop a sense of speaker and audience. They will provide positive support for their fellow writers and learn to revise their work using concrete, sensory details and appropriate choice of diction, syntax, purpose, and audience. They will send manuscripts to contests for possible publication.

188 PUBLICATIONS

Credit: 2

Yearly Course

Available to 10-12 Grades

Prerequisite: Teacher Approval and students must have passed English 9 and English 10 with an 80% average.

Students will produce the school yearbook. There will be an emphasis on writing style and technique, writing process (revising, and editing), and also production values and organization and deadlines. The students will focus on their writing skills and editing of stories, headlines, captions and the basics of production design, layout and printing of a publication. Students will work with a wide range of technology (knowledge of Adobe Photoshop, digital cameras, and computer photo editing software). Students will also have to work together with other students in the course to make major decisions about the yearbook. Students are also expected to take pictures at school events, outside of class time, and work at 2 concession stands. Students signing up for this class must be enrolled for both semesters.

192 CAREER AND TECHNICAL WRITING

Credit: 1

Offered 1 Semester

Available to Grades 10-12 Grades

Prerequisite: None

Career and Technical Writing impacts all aspects of our lives. This introductory course will teach students to communicate in a clear, courteous, concise, complete and correct manner on both personal and professional levels. Competency will be developed in oral, written, interpersonal, technological, and employment communication. Listening skills will be incorporated throughout the semester. The overriding goal is to provide students with a solid communication base, so they are able to communicate effectively. Students will survey basic concepts of non-fiction writing. Students will encounter various article formats and work towards developing their voice using various writing styles. This course will prepare students to research, organize, and write persuasively. Much of the course will focus on the students developing and improving their writing in a variety of styles and formats.

184 COLLEGE PREP WRITING

Credit: 1

Offered 1 Semester

Available to Grades 11-12

Prerequisite: None

This class is an elective writing course, which is designed to prepare students to write for a variety of reasons and prepare them for college writing. Topics of essays include: persuasive, argumentative, literary analysis, research, informative, analysis of a visual narrative, a generic scholarship essay, personal narrative, and career readiness documents. Students will also have exposure to several forms of citations, grammar, and vocabulary exercises.

FINE ARTS

Visual Arts

100 ART FUNDAMENTALS

Credit: 1

Offered Each Semester

Available to Grades 9-12

Prerequisite: None

This course is designed to introduce students to art at the high school level. Students will explore a variety of projects to connect them to their creativity; through building art vocabulary, techniques and cognitive abilities. This course is required for all upper level art.

104 CERAMICS I

Credit: 1

Offered Each Semester

Available to Grades 9-12, Limit 12

Prerequisite: Art Fundamentals

This course will allow the student to discover art through clay. Students will create an understanding of form and function through a variety of projects and techniques. Students will hand build and learn how to use a potter's wheel.

107 CERAMICS II

Credit: 1

Offered Each Semester

Available to Grades 10-12, Limit 12

Prerequisite: Ceramics I and teacher approval.

Ceramics II provides in-depth work with clay beyond Ceramics I. Students will further their technical ability in hand building, surface decoration and wheel thrown techniques. Students will continue to explore glaze application methods and various surface effects. Students will be highly encouraged to work beyond the ordinary in order to advance their artistic styles and capabilities with clay.

106 DRAWING

Credit: 1

Offered Each Semester

Available to Grades 9-12

Prerequisite: Art Fundamentals

In this course students will explore a variety of methods and media used in drawing. Students will be encouraged to think and develop their ideas artistically and creatively.

105 EXPLORATORY ART (Formerly, Folk Art)

Credit: 1

Offered 1 Semester

Available to Grades 9-12

Prerequisite: None

This course is designed as a fun exploration into art making. Art making is an entry way into creative thinking and this class will offer many opportunities for students to experience art of all kinds.

122 SENIOR ART STUDIO

Credit: 1

Offered Each Semester

Available to Grades 12

Prerequisite: Art Fundamentals, Drawing, Painting and Instructor's approval

This course is designed to allow the individual to pursue media or mediums of choice. Students should be strong independent thinkers and workers. The goal is to create personal, meaningful and individualized artwork. Course is designed for serious art students.

110 PAINTING

Credit: 1

Offered 1 Semester

Available to Grades 9-12

Prerequisite: None

This course will allow students to explore the world through paint. Various tools and techniques used in painting will be explored. Students will create an understanding for aesthetics, composition, and painting techniques through a number of projects aimed at creating a personal connection to painting.

111 PAINTING II

Credit: 1

Offered 1 Semester

Available to Grades 10-12

Prerequisite: Painting

This course will continue an exploration of technique and personal style and artistic ideas through paint. An emphasis in style, personal critiques and presenting their art will be expected.

114 SCULPTURE

Credit: 1

Offered 1 Semester

Available to Grades 9-12

Prerequisite: Art Fundamentals

This course is designed to explore creating art three dimensionally through a variety of materials and techniques.

MUSIC

NOTE: All music students will have the opportunity to participate in State Solo and Small Group Contest, Festivals, Exchange Concerts, Trips, and other functions.

124 BAND

Credit: 1 (per semester)

Yearlong Course

Available to Grades 9-12

Prerequisite: None

Co-requisite: Marching Band - 120

This course is open to all students with a desire to participate in Instrumental Music. The major focus in Band is the Concert Band where students will be introduced to concepts that will improve music technique. Students involved in Band are required to participate in Marching Band and Pep Band during athletic events. Students enrolled in band will be required to participate in concerts and other performances throughout the year and will have the opportunity to participate in select ensembles. Jazz Band is auditioned in the late fall and meets early in the morning. Any student enrolled in the band is invited to audition for Jazz Band. Weekly lessons are required and are scheduled by the director.

120 MARCHING BAND**Credit: .5****Offered 1 Semester (Fall)****Available to Grades 9-12****Prerequisite: None****Co-requisite: Band - 124**

This course is designed to provide an enriching and diverse instrumental and visual music education. This class will include a number of public performances in a variety of settings. The daily objective of the course is to foster and promote musical growth through instrumental playing and visual choreography.

118 MUS 125: EAR TRAINING/SIGHT SINGING**Credit: .5****Offered 1 Semester****Available to Grades 10-12****DUAL CREDIT COLLEGE COURSE****Prerequisite: None****Co-requisite: MUS 125**

This course develops the ability to recognize and notate simple intervals, rhythms, melodies and chord progressions. Sight-singing skills are strengthened using the sol-feggio method. Basic piano skills are acquired.

128 MUS 115: MUSIC THEORY I**Credit: .5****Offered 1 Semester (Fall)****Available to Grades 10-12****DUAL CREDIT COLLEGE COURSE****Prerequisite: None****Co-requisite: MUS 125**

The course introduces the basic materials of music, including musical notation and the basic elements of music including melody, harmony, rhythm, texture, keys, major and minor scale structures, chord construction, and composition. This class is intended for students with strong interest but limited background in music theory.

131 INTRO TO PIANO**Credit: 1****Offered 1 Semester****Available to Grades 9-12****Prerequisite: None**

Students will be taught the following: fundamentals of piano, music and musicianship, music notation, terminology, scales, key signatures and time signatures. Also being taught, basic piano chords, rhythms and fingering techniques. The music is beginning level classical, folk and popular piano literature.

129 MUS 100: MUSIC APPRECIATION**Credit: 1****Offered 1 Semester (Spring)****Available to Grades 10-12****DUAL CREDIT COLLEGE COURSE****Prerequisite: None**

A general course designed to make the student more aware of musical form, media, genres, musical periods, and the essential role of music in life and culture. Emphasizes the development of tools for intelligent listening and appreciation.

126 VOCAL MUSIC

Credit: 1

Yearlong Course

Available to Grades 9-12

Prerequisite: None

This ensemble is open for any student with a reasonable degree of vocal ability and/or training in proper vocal technique. Students will be introduced to concepts that will improve sight-reading ability and overall music technique. Music for this ensemble will be sacred and secular, covering time periods from the Renaissance to contemporary in a variety of languages. Lessons are mandatory and will be scheduled by the director. Any student enrolled in this ensemble will be required to participate in concerts and other performances throughout the semester and will also have the opportunity to participate in select ensembles. Any student enrolled in Vocal Music is open to audition for Jazz Choir.

HEALTH AND PHYSICAL EDUCATION

Health and PE

132 HEALTH I

Credit: 1

Offered Each Semester

Available to Grades 9-12

REQUIRED for WHS Graduation

Prerequisite: None

The health units covered will include nutrition, goal setting, fitness, the body systems, drug and alcohol abuse, sex education and CPR Training. This introductory class will cover the health basics in the above areas with a focus on units important to early teens.

136 HEALTH II

Credit: 1

Offered 1 Semester (Spring)

Available to Grades 10-12

Prerequisite: Health I

This class will teach the overall benefits of staying healthy. Health units that will be covered include nutrition, personal fitness, and changes of the body, body systems, mental and emotional health, drug use and abuse, sex education, and other current applicable health topics.

133 PE

Credit: .5

Yearlong Course

Required for Grades 9-12

Prerequisite: None

Physical Education classes are designed to practice and develop skills in activities that will help students maintain fitness throughout their life. Students will understand the benefits that regular exercise can provide for a person's mental, physical, and social health.

This is a class that combines traditional P.E. units with an introduction to lifting.

140 PEC 110: COACHING ETHICS, TECHNIQUES, AND THEORY**Credit: .5****Offered 1 Semester****Available to Grades 11-12****Prerequisite: None****Corequisite: PEC 115**

This course studies the theory and techniques of coaching the interscholastic athlete and the interscholastic team, as well as the related responsibilities, duties and problems. This is one of four courses leading to the coaching authorization issued by the Iowa Department of Education as a head coach or assistant coach of any interscholastic athletic activity.

141 PEC 115: ATHLETIC DEVELOPMENT AND HUMAN GROWTH**Credit: .5****Offered 1 Semester****Available to Grades 11-12****Prerequisite: None****Corequisite: PEC 110**

This course introduces concepts in sports psychology for elementary school age children and adolescents. Physical, psychological and social growth is examined as they relate to physical activity and competitive athletics. This is one of four courses leading to the coaching authorization issued by the Iowa Department of Education as a head coach or assistant coach of any interscholastic athletic activity.

142 PEC 120: BODY STRUCTURE AND FUNCTION**Credit: .5****Offered 1 Semester****Available to Grades 11-12****Prerequisite: None****Corequisite: PEC 126**

This course is an introduction to the physiological processes and anatomical features of the human body which are related to and affected by physical activity and training. This is one of four courses leading to the coaching authorization issued by the Iowa Department of Education as a head coach or assistant coach of any interscholastic athletic activity.

143 PEC 126: ATHLETIC INJURY PREVENTION**Credit: .5****Offered 1 Semester****Available to Grades 11-12****Prerequisite: None****Corequisite: PEC 120**

This course introduces conditioning programs and training methods that tend to prevent athletic injuries. This course provides basic skills in injury procedures, while providing practical experience in taping techniques. This is one of four courses leading to the coaching authorization issued by the Iowa Department of Education as a head coach or assistant coach of any interscholastic athletic activity.

MATHEMATICS

MATHEMATICS

253 ALGEBRA A

Credit: 2

Yearlong Course

Available to Grades 9-11

Prerequisite: None

This is the first semester of regular algebra expanded through the school year. Topics include Equations, Inequalities, Linear Functions, and Solving Systems of Linear Equations. Algebra, in addition to its concern of solving mathematical problems, supplies the language and patterns of reasoning used in other branches of mathematics. Besides increasing their ability to organize and solve mathematical problems, most students will be able to solve and think through their own problems.

254 ALGEBRA B

Credit: 2

Yearlong Course

Available to Grades 10-12

Prerequisite: Algebra A

This is the second semester of regular algebra expanded through the school year. Topics include Exponents and Polynomials, Factoring Polynomials, and Quadratic Functions.

260 ALGEBRA I

Credit: 2

Yearlong Course

Available to Grades 9-12

Prerequisite: None

Algebra, in addition to its concern of solving mathematical problems, supplies the language and patterns of reasoning used in other branches of mathematics. Besides increasing their ability to organize and solve mathematical problems, most students will be able to solve and think through their own problems better. Topics include Equations, Inequalities, Linear Function, Systems of Equations and Inequalities, Exponents, Polynomials, Factoring Polynomials, and Quadratic functions and equations.

270 ALGEBRA II

Credit: 2

Yearlong Course

Available to Grades 10-12

Prerequisite: Algebra I

Algebra II is a course intended to follow Algebra I and Geometry. It builds **heavily** upon skills and concepts from Algebra I. The course emphasizes properties of the real number system, operations with algebraic expressions, functions, graphing, mathematical modeling of problems, problem solving, and communicating mathematics. Extensive work is done with linear functions, quadratic functions, rational expressions, and rational functions, the relationships between functions and their graphs, and solving systems of equations. The real number system is extended to include operations with complex numbers.

284 CALCULUS

Credit: 1

Offered 1 Semester (Fall)

Available to Grade 12

Prerequisite: Pre-Calculus. Student must pass college entrance exams and students are required to meet cut scores on the College Placement Exam Co-Requisite MAT 211

This is the fifth year of the college prep mathematics sequence, following Pre-Calculus. The course will include a review of the properties of the real number system; a review of trigonometry and circular functions; logarithms and exponential functions; and most of the Advanced Placement Calculus AB syllabus. Students will receive one high school credit for semester one of this class, and then will take MAT 211 second semester and will receive both high school and college credit for second semester.

275 CONSUMER MATHEMATICS

Credit: 2

Yearlong Course

Available to Grades 11-12

Prerequisite: 2 Full Years Of Math

This course familiarizes the student with basic arithmetic operations (particularly percent) and then, using these operations, deals with some of the problems that everyone encounters in daily life. Some of these include: earned income, interest and interest rates, savings and checking accounts, budgets, installment buying, automobile ownership and operation, insurance (fire, life, automobile, health, and accident), taxes (real estate, sales, income, 1040EZ form), investments, social security, and reading graphs and tables. This is not a college prep course.

265 GEOMETRY

Credit: 2

Yearlong Course

Available to Grades 9-12

Prerequisite: Algebra I (2 credits) or Algebra B

This is an elective math course intended to follow Algebra I. The course is a study of the process of logical thought. Logical thought consists of reaching valid conclusions based on facts special to the given problem as well as previously established facts. The skills learned in the logical pattern of problem solving can be applied to everyday decision-making and problem analyzation, as well as to other math and science courses. Topics covered include proof, geometric figures and their properties and relationships, and the algebra of geometry, including review of algebra skills pertinent to this and future math courses.

568 MAT 772- APPLIED MATH

Credit: 1

Offered 1 Semester (Spring)

Available to Grades 11-12

DUAL CREDIT COURSE

Prerequisite: Algebra I or Algebra B

This course reinforces general mathematics skills; extend these skills to include some pre-algebra, and algebra topics; and use these skills in a variety of practical, consumer, business, and occupational applications. Course topics typically include rational numbers measurements, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations.

285 MAT 211- CALCULUS

Credit: 1

Offered 1 Semester (Spring)

Available to Grade 12

DUAL CREDIT COURSE

Prerequisite: Pre-Calculus, Calculus & ACT comp score of 22 or higher & Math subscore of 23 or higher, or can meet cut scores on the WITC College Placement Tests.

This is the fifth year of the college prep mathematics sequence, following Pre-Calculus. The course will include a review of the properties of the real number system; a review of trigonometry and circular functions; logarithms and exponential functions; and most of the Advanced Placement Calculus AB syllabus. Students will receive both high school and college credit for this dual credit course.

263 MAT 157- STATISTICS

Credit: 1

Offered 1 Semester

Available to Grades 11-12

DUAL CREDIT COURSE

Prerequisite: ACT comp score of 22 or higher & Math sub-score of 23 or higher, or can meet cut scores on the WITC College Placement Tests.

This course addresses theory, techniques, and applications of statistical analyses: descriptive statistics, probability, sampling, estimation, test of hypotheses, ANOVA, linear regression and nonparametric procedures. Computer skills and use is needed throughout the course. This is a dual credit College NOW class worth 4 college credits.

250 PRE-ALGEBRA

Credit: 2

Yearlong Course

Available to Grades 9-12

Prerequisite: None

This is an integrated course that will review the basic arithmetic operations and use these skills to begin work in basic algebraic concepts. Students will be introduced to exponents and negative numbers and will work extensively with percentages and solving equations. Volume, area, and perimeter will also be studied.

280 PRE-CALCULUS

Credit: 2

Yearlong Course

Available to Grades 11-12

Prerequisite: Geometry and Algebra II (2 credits)

This course combines the study of Trigonometry, Elementary Function, & Math Analysis topics as preparation for Calculus. Topics include the study of complex numbers; polynomial, logarithmic, exponential, rotational, trigonometric, & circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solution of right and oblique triangles; vectors, sequences, & series.

SCIENCE

SCIENCE

315 ADVANCED CHEMISTRY

Credit: 1

Offered 1 Semester

Available to Grade 12

Prerequisite: Chemistry (2 credits) and Teacher recommendation

This course is designed for students with a continuing interest in chemistry. It's purpose is to expand the student's knowledge of the areas of chemistry touched on in the first year course and also to consider new topics that time limitations prevented in first year chemistry, such as electro-chemistry, nuclear chemistry, organic chemistry, and qualitative analysis. Future college science majors should take this class. *Calculator is required.*

330 ADVANCED PLACEMENT BIOLOGY (AP BIOLOGY)

Credit: 2

Yearlong Course

Available to Grade 12

Prerequisite: Biology & Teacher Approval (Chemistry recommended)

This course is designed for students with a continuing interest in biology. It is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their freshman year. Approximately 25% of the class will focus on molecules and cells – emphasizing the chemistry of life, cell cycles, cellular respiration, and photosynthesis. Approximately 25% of the class will focus on genetics and evolution – emphasizing inheritance patterns, cellular genetics, and evolutionary patterns. The final 50% of the class will focus on a survey of the plant and animal kingdoms along with ecological relationships. Recommended for students planning to attend college and/or pursue a career in science. ALL students WILL be required to take the Advanced Placement test at the end of the class.

305 BIOLOGY

Credit: 2

Yearlong Course

REQUIRED for Grade 10

Prerequisite: Science 9

Biology is the study of living things. Topics studied include: scientific method, basic biochemistry, cell anatomy, cell energy use and reproduction, genetics and gene technology, evolution, and a survey of the plant and animal kingdoms.

316 BIO 105: INTRODUCTORY BIOLOGY

Credit: 1

Offered 1 Semester

Available to Grades 11-12

Prerequisite: Science 9 and Biology

This is a combined lecture and lab course that is a biological concepts survey for non-science majors. Topics covered include biochemistry, molecular and cellular biology, genetics, evolution, plant and animal classification, structure and function and ecology.

530 BIO 168: ANATOMY AND PHYSIOLOGY I

Credit: 1

Offered 1 Semester

Available to Grades 11-12

DUAL CREDIT COURSE- Students must meet one of the following criteria:

Prerequisite: 1) Score 22 or higher on the ACT test 2) 2 semesters of High School Chemistry with a B- or better or 1 semester of High school Chemistry with a B- or better and 1 semester of High school biology with a B- or better 3) Completion with a C- or better in a transfer level Biology (BIO-105 or higher) or Chemistry (CHM-122 or higher). **Co-requisite BIO 174.**

This is a combined lecture and lab course that explores the relationship between structure and function in the human body. This course covers the skeletal, muscular, integumentary, and nervous systems, as well as cytology and histology. This course is for high school and college credit (4 college credits through Western Iowa Tech Community College).

531 BIO 173: ANATOMY AND PHYSIOLOGY II

Credit: 1

Offered 1 Semester

Available to Grades 11-12

DUAL CREDIT COURSE

Prerequisite: BIO 169

This is a combined lecture and lab course. It is a continuation of Anatomy and Physiology I. The structure and function of the cardiovascular, lymphatic, endocrine, respiratory, digestive, urinary and reproductive systems are studied. This course is for high school and college credit (4 college credits through Western Iowa Tech Community College).

310 CHEMISTRY

Credit: 2

Yearlong Course

Available to Grades 11-12

Prerequisite: Science 9, Biology and 2 credits of Algebra

Chemistry is the physical science that deals with the composition and structure of matter and the chemical changes that take place. Some of the areas to be studied will include: The atom and the theory of its structure, the molecule, compounds, including acids, bases and salts, chemical bonding, classification of the elements, chemical reactions including the energy of reactions, gas laws, and the mathematics of chemistry. Recommended for students planning to attend college. *Calculator is required.*

313 ENVIRONMENTAL SCIENCE

Credit: 2

Yearlong Course

Available to Grades 11-12

Prerequisite: Science 9 and Biology

Students can expect hands-on student-lead projects looking at energy and natural resources, natural disasters, and consumer influence. We will examine the causes, effects, and possible solutions between humans and their ever-changing interaction with the environment. We will explore local, state, national, and global issues relating to the environment using field-collected data and current events.

314 FORENSIC SCIENCE

Credit: 1

Offered 1 Semester

Available to Grades 11-12

Prerequisite: Science 9 and Biology

Forensic Science is the application of science to the criminal and civil laws that are enforced by police agencies in a criminal justice system. It includes the investigation of fingerprinting, fiber analysis, ballistics, arson, trace evidence analysis, poisons, drugs, blood spatters, and blood samples. Students are taught the proper collection, preservation, and laboratory analysis of various samples.

309 NATURAL RESOURCES & ECOLOGY

Credit: 1

Offered 1 Semester

Available to Grades 10-12

Prerequisite: Science 9 and Biology/Intro to Ag

Students will explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agendas. Study of the natural world including biomes, land, air, water, energy use, care as well as a focus on issues surrounding man's interaction with the Earth will be addressed in this course. Students will select an ecosystem to study throughout the course and apply principles of natural resources and ecology from each unit of study to that ecosystem.

317 OCEANOGRAPHY

Credit: 1

Offered 1 Semester

Available to Grades 11-12

Prerequisite: Science 9 and Biology

Oceanography is the study of the physical, chemical, biologic, and geologic aspects of the world's oceans and their interactions. The course also focuses on ocean exploration/history, ocean policies with regards to fishing, pollution, and the environment, and why the study of oceanography is important to you.

320 PHYSICS

Credit: 2

Yearlong Course

Available to Grades 11-12

Prerequisite: Algebra I and Geometry + Completed 4 credits of Science

Physics deals primarily with the non-living aspects of nature. Here are some areas, which will be studied: measurements - force - motion - energy in the form of heat, light, and electricity. Recommended for students pursuing a career in science or math. *Calculator is required.*

300 SCIENCE 9

Credit: 2

Yearlong Course

REQUIRED for Grade 9

Prerequisite: None

This physical science course presents an introduction to chemistry and physics using a hands-on conceptual learning approach. Topics will include meaning of science, measurement, scientific investigation, matter, atomic structure, chemical bonds, chemical reactions, motion, forces, energy, and engineering. Students work in cooperative learning groups doing both the lab and lecture components.

319 SCIENTIFIC RESEARCH AND DESIGN

Credit: 1

Offered Each Semester

Available to Grades 11-12

Prerequisite: None

Students conceive of, design, and complete projects using scientific inquiry and experimentation methodologies. Emphasis is typically placed on safety issues, research protocols, controlling or manipulating variables, data analysis, and a coherent display of the project and its outcomes.

SOCIAL STUDIES

BEHAVIORAL SCIENCES

365 AMERICAN GOVERNMENT

Credit: 1

Offered Each Semester

REQUIRED for Grade 12

Prerequisite: None

Government is designed to provide the student with an understanding of how our government is organized, how politically active people attempt to control it, and how special interest groups move within it. The course will emphasize various forms of government around the world and how the United States actively interacts with them. Students will utilize critical thinking skills to investigate topics including Constitutional Law, The Bill of Rights, Civil Liberties, Civil Rights, Political Ideology, Comparative Governments and the Division of Powers. A couple of research projects will be included in the semester and we will also do at least one activity where we act as a governing body as a class.

374 CURRENT ISSUES

Credit: 1

Offered 1 Semester

Available to Grades 9-12

Prerequisite: None

The focus of this class will be on current global issues. Current Issues offers students the opportunity to study the contemporary world through current events. It is designed to be informative as well as to provide experience in reading, research, and writing. Some topics will include: environmental issues, global conflict, population issues, and human rights.

360 ECONOMICS

Credit: 1

Offered Each Semester

Required For Grades 11-12

Prerequisite: None

Economics is a semester course focused around a basic understanding of economics. Topics covered but not limited to include macro sectors, micro sectors, scarcity, supply and demand, the role of government, the role of the private sector, the stock market, the money supply, inflation, and taxation. The course will also include a financial literacy unit that teaches some basic individual financial matters from banking and loans to insurance and other activities that people come across in their day-to-day lives.

383 GEOGRAPHY

Credit: 1

Offered 1 Semester

Available to Grades 9-12

Prerequisite: None

Geography is a course focused on how we as American citizens look at the world. The regions covered are, Central and South America, Australia, Oceania, Antarctica, Africa, the Middle East, Eastern and Western Europe. The course will place an emphasis on the physical and human aspects of geography as well as the commonly accepted five themes of geography. Students will also learn about the current issues facing these regions. Topics will include but are not limited to, world religions, human rights, and terrorism. Students will develop their basic map skills, critical thinking skills, writing skills, and other general social science skills. Lectures, notes, discussions, videos and other various projects will be required over the course of the semester.

355 MODERN AMERICAN HISTORY (1880-Present)

Credit: 2

Yearlong Course

REQUIRED for Grade 9

Prerequisite: None

Students will cover the following historical events: Progressivism, the Spanish-American War, World War I, the Roaring 20's, The Great Depression and the New Deal, WWII, the Korean War, War and Peace in a Nuclear Age, the Age of Space, the Civil Rights Movement, and the Vietnam War.

393 PSYCHOLOGY

Credit: 1

Offered 1 Semester

Available to Grades 11-12

Prerequisite: None

This course provides an overview of the study of human behavior with emphasis in the areas of biological mechanisms, development, sensation, learning and memory, motivation, therapy and social influence. The course stresses the impact of both theoretical perspectives and experimental evidence on the formulation of human behavior. Psychological theories and principles are utilized to explain and predict behavior.

394 SOCIOLOGY

Credit: 1

Offered 1 Semester

Available to Grades 11-12

Prerequisite: None

A survey of the fundamental concepts employed in the study of human social interaction with emphasis on group aspects of social behavior. Subject areas include research methods, culture and social structure, socialization, groups and formal organizations, deviance and social control, stratification, minorities, major social institutions, and social change.

395 ISSUES IN SOCIOLOGY

Credit: 1

Offered 1 Semester

Available to Grades 10-12

Prerequisite: None

A survey of the fundamental concepts employed in the study of human social interaction with emphasis on group aspects of social behavior. Subject areas include research methods, culture and social structure, socialization, groups and formal organizations, deviance and social control, stratification, minorities, major social institutions, and social change

385 WORLD HISTORY

Credit: 2

Yearlong Course

REQUIRED for Grade 10

Prerequisite: None

The primary purpose of this junior level course is to give students an opportunity to learn about the economic, political, and social developments that created the western civilization of which they are a part. The course includes study of the Ancient Middle East and Egypt, Ancient Greece and Rome, the Middle Age and the Rise of Nation States, the Renaissance, the Reformation, the French Revolution, Imperialism, as well as topics from the Far East including Japan, China, and India. We will look at these areas of history through a variety of methods from layered curriculum to project-based learning to lecture/note method.

WORLD LANGUAGE

WORLD LANGUAGE

200 SPANISH I

Credit: 2

Yearlong Course

Available to Grades 9-12

Prerequisite: None

This is an elective course that teaches the basic structures of the Spanish language. The students learn foundational skills to read, write, listen, and speak Spanish as well as learn important cultural points throughout the year. The emphasis is on using Spanish in everyday situations. This course is not designed for the native speaker.

204 SPANISH II

Credit: 2

Yearlong Course

Available to Grades 10-12

Prerequisite: Spanish I with a C- or higher

Spanish II is a continuation of first year Spanish with added emphasis on formal grammar, conversational skills, presentations and cultural information. Text and workbook activities are included. This course is not designed for the native speaker.

208 SPANISH III

Credit: 2

Yearlong Course

Available to Grades 11-12

Prerequisite: Spanish II with a C- or higher

This course is a continuation of Spanish II, which emphasizes building skills in reading, writing, listening, and speaking. Cultural points are also a part of each unit. This class is conducted primarily in Spanish.

210 SPANISH IV

Credit: 2

Yearlong Course

Available to Grade 12

Prerequisite: Spanish III with a C- or higher

This course is primarily a review of previously learned grammar and structure of the language. It offers a component of literature as well as increased conversational and listening practice. This class is conducted primarily in Spanish.

COLLEGE NOW & OTHER COLLEGE DUAL CREDITS

Please note: WIT class offerings are contingent upon the number of students enrolled.

DUAL CREDIT CLASSES OFFERED AT WHS AND/OR CHEROKEE WIT-CC CAMPUS

*Classes with an * are listed above in their corresponding WHS curricular areas*

ACC 111	Introduction to Accounting*
ADM 105	Introduction to Keyboarding*
ADM 131	Office Calculators*
ADM 162	Office Procedures*
AGA 114	Principles of Agronomy*
AGS 113	Survey of the Animal Industry*
AUT 104	Introduction to Automotive Technology
AUT 163	Automotive Engine Repair
BIO 105	Introductory Biology*
BIO 168	Anatomy & Physiology I*
BIO 173	Anatomy & Physiology II*
CRJ 100	Introduction to Criminal Justice*
CSC 116	Information Computing*
ELE 101	Industrial Safety
HSC 109	Exploring Health Careers and Building Teams
HSC 114	Medical Terminology
HSC 173	Nurses Aide Theory
HSC 174	Nurses Aide Clinical
HSC 178	Advanced Nurse Aide
MAT 157	Statistics*
MAT 211	Calculus*
MAT 772	Applied Math*
MUS 100	Music Appreciation*
MUS 115	Music Theory I*
MUS 125	Ear Training/Sight Singing*
PEC 110	Coaching Ethics, Techniques, and Theory*
PEC 115	Athletic Development and Human Growth*
PEC 120	Body Structure and Function*
PEC 126	Athletic Injury Prevention*
WEL 120	Oxy Fuel Welding and Cutting
WEL 147	ARC Welding Introduction (SMAW)
WEL 422	GMAW for Production
WEL 423	Intro to GMAW
WEL 425	Measuring, Layout, and Applied Weld Symbols

335 AUT 104 INTRODUCTION TO AUTOMOTIVE TECHNOLOGY**Credit: 1****Offered 1 Semester (Fall)****Available to Grades 11-12****Prerequisite: None**

This course provides basic instruction in shop skills including precision measuring, the use of hand tools, power tool use, fittings, fasteners, service manual use and related shop equipment. It covers the basics of electrical systems, drive train, fuel, brakes, heating, air conditioning, wheels and tires. It also emphasizes shop safety practices in each area of study.

336 AUT 163 AUTOMOTIVE ENGINE REPAIR**Credit: 1****Offered 1 Semester (Spring)****Available to Grades 11-12****Prerequisite: AUT 104**

This is a combined lecture and lab course that covers the fundamentals of internal combustion engine operation, service and repair. Students learn theories in practical, hands-on applications in both the classroom and lab exercises.

342 CRJ 100 INTRODUCTION TO CRIMINAL JUSTICE**Credit: 1****Offered 1 Semester (Spring)****Available to Grades 9-12****Prerequisite: None**

This course studies the history of law enforcement and respective agencies and the basic theories of criminal behavior as well as law enforcement terminology and technology. It emphasizes the duties and responsibilities of the law enforcement officer to the individual and society as a whole and explores and defines techniques, technical terms, and basic procedures.

477 ELE 101 INDUSTRIAL SAFETY**Credit: 1****Offered 1 Semester (Fall)****Available to Grades 11-12****Prerequisite: None *(This course may need to be completed before the start of the school year)***

This course covers mechanical, chemical, environmental and electrical aspects of safety. The role of OSHA in the workplace is presented. Students will become familiar with forms such as material Safety Data Sheets and will be trained in the use of (PPE) Personal protective Equipment and in other safety procedures related to materials handling and storage. Industrial hazards such as fall protection and caught-in/struck-by will be emphasized. Students will receive the OSHA 10 safety training and will be awarded an OSHA 10 card upon successfully completing this course.

538 HSC 109 EXPLORING HEALTH CAREERS AND BUILDING TEAMS**Credit: 1****Offered 1 Semester****Available to Grades 11-12****Prerequisite: Co-Requisite HSC 173 & HSC 174**

Designed to provide information on career options for individuals who are interested in pursuing a career in the healthcare industry. It includes the study of team dynamics and communication techniques necessary to work and succeed in the healthcare field. Students are given opportunities for career exploration through research and projects utilizing the Internet and library databases. It also provides instruction in browsing the Internet, using e-mail, and other computer literacy tools necessary for taking online courses and for careers in the healthcare industry.

534 HSC 114 MEDICAL TERMINOLOGY**Credit: 1****Offered 1 Semester****Available to Grades 11-12****Prerequisite: Co-Requisite HSC 178**

Presents medical terminology as the language of medicine. Studies spelling, pronunciation and usage, emphasis on word analysis and construction of definitions.

536 HSC 173 NURSES AIDE THEORY**Credit: 1****Offered 1 Semester****Available to Grades 11-12****Co-requisites: HSC 174 & HSC 109**

Course is designed to provide the student with the fundamentals of patient care in the healthcare environment. Students will learn basic anatomy, physiology, medical terminology, meeting human needs, safety measures, infection control, and physical care.

537 HSC 174 NURSE AIDE CLINICAL**Credit: 1****Offered 1 Semester****Available to Grades 11-12****Co-requisites: HSC 173 & HSC 109**

This course expands the students' knowledge of tasks, assessments and observations of patients in the healthcare environment. Students will develop technical skills specific to complex needs of the patient. This course is designed to teach the students what they need to know to pass the state CNA Certification test. It will involve working in a healthcare facility for no pay for about six hours per day for six Saturdays. This is a requirement of the class and before taking the state certification test. The student will need scrub uniforms, shoes that are white or black and impervious to liquids, and two TB tests. The student is responsible for the cost of the state certification test (around \$150.00). This course is for high school and college credit (Western Iowa Tech Community College).

455 HSC-178 ADVANCED NURSE AIDE**Credit: 1****Offered 1 Semester****Available to Grades 11-12****Prerequisites: HSC-173 & HSC-174, Co-requisite: HSC 114**

This course is designed as an optional additional unit of instruction for nurse aides who work in long-term care. This additional material provides the learner with content emphasizing the knowledge, attitude, and skills necessary for providing patient care in the acute setting. This course is taught at the Cherokee Regional Medical Center (CRMC). A physical is required for this class.

467 WEL 120 OXY FUEL WELDING AND CUTTING**Credit: 1****Offered Spring Semester Only****Available to Grades 11-12****Prerequisite: None**

In this course students will learn the fundamentals of oxy/fuel welding including the safe operation, proper setup, and welding and metal cutting skills. Topics include fusion welding and brazing on light gauge metals, cutting on heavy and light gauge metals, and welding of small diameter pipe.

468 WEL 147 ARC WELDING INTRODUCTION (SMAW)**Credit: 1****Offered Spring Semester Only****Available to Grades 11-12****Prerequisite: None**

This is the first of two courses designed for students to prepare for the AWS Certification. A combined lecture and lab course, students study safety, heat settings, polarity, and the proper selection of electrodes in the arc welding process. Topics include welding on carbon steel plates using visual and destructive methods of determining weld quality to AWS Standards.

465 WEL 422 GMAW FOR PRODUCTION**Credit: 2****Offered Fall Semester Only****Available to Grades 11-12****Prerequisite: WEL-423 Intro to GMAW**

This course combines lecture and lab activities to present the Gas Metal Arc welding (MIG) process used extensively by industry. A continuation of Intro to GMAW, WEL 423, students learn out of position welds using hands-on applications, metal transfer concepts, GMAW equipment maintenance, welding procedures, out of position welding, and safety.

466 WEL 423 INTRO TO GMAW**Credit: .5****Offered Fall Semester Only****Available to Grades 11-12****Prerequisite: None**

This course combines lecture and lab activities to present the Gas Metal Arc Welding (MIG) process used extensively by industry. It emphasizes hands-on applications, metal transfer concepts, GMAW equipment, and safety.

469 WEL 425 MEASURING, LAYOUT, AND APPLIED WELD SYMBOLS**Credit: 1****Offered Spring Semester Only****Available to Grades 11-12****Prerequisite: None**

This course combines lecture and lab activities to present basic measuring and layout tools used extensively by industry, as well as application of basic symbols. It emphasizes hands-on applications, accurate measurements techniques and proper use of tools and interpretation of basic weld symbols.

FRESHMEN

Registration Template

You can use this to help you map out your classes if you'd like. This will help you have a plan when you register.

Please make sure to look at the course prerequisites and grade level availability.

- Each class = 1 credit per semester
- You will only have a study hall opposite of your PE days

	Fall Semester	Spring Semester
1	<p>Math <i>(Required)</i></p> <p>Pre-Algebra Algebra A Algebra 1 Geometry</p>	<p>Math <i>(Required)</i></p> <p>Pre-Algebra Algebra A Algebra 1 Geometry</p>
2	<p>English I <i>(Required)</i></p>	<p>English I <i>(Required)</i></p>
3	<p>Modern American History <i>(Required)</i></p>	<p>Modern American History <i>(Required)</i></p>
4	<p>Science 9 <i>(Required)</i></p>	<p>Science 9 <i>(Required)</i></p>
5	<p>PE / Study Hall Every other day <i>(Required)</i></p>	<p>PE / Study Hall Every other day <i>(Required)</i></p>
6	<p>Health <i>(Required)</i></p>	<p>Elective</p>
7	<p>Elective</p>	<p>Elective</p>
8	<p>Elective</p>	<p>Elective</p>

SOPHOMORE

Registration Template

You can use this to help you map out your classes if you'd like. This will help you have a plan when you register.

Please make sure to look at the course prerequisites and grade level availability.

- Each class = 1 credit per semester
- You will only have a study hall opposite of your PE days

	Fall Semester	Spring Semester
1	Math <i>(Required)</i>	Math <i>(Required)</i>
2	English II <i>(Required)</i>	English II <i>(Required)</i>
3	World History <i>(Required)</i>	World History <i>(Required)</i>
4	Biology <i>(Required)</i>	Biology <i>(Required)</i>
5	PE / Study Hall Every other day <i>(Required)</i>	PE / Study Hall Every other day <i>(Required)</i>
6	Elective	Elective
7	Elective	Elective
8	Elective	Elective

JUNIOR

Registration Template

You can use this to help you map out your classes if you'd like. This will help you have a plan when you register.

Please make sure to look at the course prerequisites and grade level availability.

- Each class = 1 credit per semester
- You will only have a study hall opposite of your PE days

	Fall Semester	Spring Semester
1	English III <i>(Required)</i>	English III <i>(Required)</i>
2	Science <i>(Required Junior OR Senior Year)</i>	Science <i>(Required Junior OR Senior Year)</i>
3	Math	Math
4	PE / Study Hall Every other day <i>(Required)</i>	PE / Study Hall Every other day <i>(Required)</i>
5	Economics <i>(Can take 1st or 2nd semester)</i>	Elective
6	Elective	Elective
7	Elective	Elective
8	Elective	Elective

SENIOR

Registration Template

You can use this to help you map out your classes if you'd like. This will help you have a plan when you register.

Please make sure to look at the course prerequisites and grade level availability.

- Each class = 1 credit per semester
- You will only have a study hall opposite of your PE days

	Fall Semester	Spring Semester
1	English Elective (unless you've already done this credit)	Lit Elective (unless you've already done this credit)
2	Government (Can take 1st or 2nd semester)	
3	PE / Study Hall Every other day (Required)	PE / Study Hall Every other day (Required)
4		
5		
6		
7		
8		