Sioux City Community School District
2020-21
COURSE CATALOG

Sioux City
Community
Schools
believe... achieve... succeed
SUPERINTENDENT
Dr. Paul Gausman

BOARD OF EDUCATION
Jeremy Saint, President
Ron Colling, Vice President
Dr. Juline Albert
Perla Alarcon-Flory
Dan Greenwell
Monique Scarlett
Taylor Goodvin

DIRECTOR OF SECONDARY EDUCATION
James Vanderloo

NORTH HIGH SCHOOL
4200 Cheyenne Blvd.
(712) 239-7000
Principal- Ryan Dumkrieger
Asst. Principal- Joni Swenson
Asst. Principal- Brant Bemus
Activities Director- Christopher Koch

EAST HIGH SCHOOL
3200 S. Cypress St.
(712) 274-4000
Principal- Richard Todd
Asst. Principal- Deb Padomek
Asst. Principal- Dave Dreesen
Activities Director- Brian Koch

WEST HIGH SCHOOL
2001 Casselman St.
(712) 279-6772
Principal- April Tidwell
Asst. Principal- Ron Koch
Asst. Principal- Rebecca Rieken
Activities Director- Allan Pace

SIOUX CITY CAREER ACADEMY
627 4th St.
(712) 279-6668
Principal- Katie Towler
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OUR MISSION

Believe... Achieve... Succeed

The Sioux City Community School District exists to educate students to believe in their talents and skills, achieve academic excellence, and succeed in reaching their potential. We offer a strong academic program of studies that focus on improving student learning and achievement. By blending a solid-core curriculum and caring staff, our schools provide students with excellent opportunities for learning and growth.

COURSE CATALOG INTRODUCTION

Selecting courses for the school year is a process which involves the student, parent, counselor and instructor. Course selection should be based upon future career goals and post-secondary educational plans. Students are encouraged to familiarize themselves with available courses, graduation requirements and the registration process.

All courses listed in this course catalog may not be offered during any given year. If the course does not meet minimum enrollment requirements, it may be omitted from the schedule. Registration information sessions will be scheduled at each high school to help you plan your high school course of study.

EXIT LEVEL INTENTIONS

As a result of their education, graduates of the Sioux City Community School District will:

Demonstrate Critical Thinking and Problem Solving.
Students will be able to create solutions to complex problems through inquiry and investigations. Students will be able to access, analyze, and use key information as they develop solutions to complex problems.

Demonstrate Communication Skills.
Students will be able to successfully show information through multiple means that include visual, digital, verbal, and nonverbal interactions. Communication is purposeful, clear, and concise and leads to an accurate exchange of information and ideas.

Be Self-Sufficient and Autonomous Lifelong Learners and Citizens.
Students will be able to respond and adjust to situational needs, change to meet the challenges of new roles, paradigms, and environments, and create quality results in an ever-changing environment through the nurturing of lifelong learning.

NON-DISCRIMINATION STATEMENT

The Sioux City Community School District offers career and technical programs in the following areas: Business & Marketing, Family & Consumer Science, Health Science, and Industrial Arts, Technology, & PLTW.

The Sioux City Community School District is an equal opportunity/affirmative action employer. It is an unfair or discriminatory practice for any educational institution to discriminate on the basis of race, creed, color, sex, sexual orientation, gender identity, genetic information (for employment), national origin, religion, age (for employment), disability, socioeconomic status (for programs), marital status (for programs), or veteran status (for employment) in its educational programs and its employment practices.

Inquiries or grievances, including Section 504 grievances and grievances under Title II of the Americans with Disabilities Act, may be directed to Jen Gomez, Director of Student Services & Equity Education at 627 4th Street, Sioux City, IA 51101, (712) 279-6075, gomezj2@live.siouxcityschools.com. Please see District Board policies 103 and 504.4 for additional information on available grievance procedures.
GRADUATION REQUIREMENTS

LANGUAGE ARTS 8 CREDITS
2 credits of English I or Honors English I
2 credits of English II, Honors English II, or AP Language & Composition
2 credits of English III, Honors English III, or AP English Literature & Composition
2 credits of English IV or English Composition I & II

MATH 6 CREDITS
2 credits of Math must include Algebra I
4 additional Mathematics electives

SCIENCE 6 CREDITS
2 credits of Science must include Biology
2 credits of Physical Science and 2 credits of elective OR
2 credits of Chemistry and 2 credits of Physics

SOCIAL STUDIES 6 CREDITS
2 credits of American History (state required)
2 credits of World History
1 credit of American Government (state required)
1 credit of Next Gen Personal Finance (NGPF) (state required Financial Literacy)

FINE ARTS 2 CREDITS
These credits must be earned from two different areas: Music, Visual Arts, Dramatic Arts or
Additional Courses listed under Fine Arts.

PHYSICAL EDUCATION REQ. EACH YEAR (BP 602.11.)
Board Policy 602.11 outlines exceptions and exemptions to this requirement.

GRADUATION REQUIREMENTS FOR SPECIAL EDUCATION STUDENTS

Graduation requirements for special education students will be in accordance with the prescribed course of study as described in their Individualized Education Program (IEP). Prior to the student’s graduation, the IEP team shall determine that the graduation requirements have been met. Upon successful completion of the prescribed courses of study, students with disabilities will enjoy the same ceremonial activities as any other student. The District shall issue to special education students the same certificate of diploma as granted to other students.

EARLY GRADUATION REQUIREMENTS

Students may graduate prior to the completion of grade 12 if all course work required for graduation has been fulfilled as stated in Board Policy 605.4. In addition:
- Students and their parents should review the advantages and disadvantages of early graduation with consideration given to dual enrollment in a post-secondary program during the senior year.
- Written approval from a parent or guardian is required.
- Approval must be granted by the counselor and the principal.
- A student who takes early graduation forfeits his/her eligibility to participate in all school-sponsored or sanctioned activities after the semester that the student leaves school.
SEAL OF BILITERACY

The Seal of Biliteracy is an award given to recognize students who have attained proficiency in two or more languages, one of which is English, by high school graduation. The Seal of Biliteracy
- Recognizes the value of language diversity and cultural identity.
- Prepares students with 21st century skills who will benefit them in the labor market and the global society.
- Provides employers, universities, and grant/scholarship providers with a method to recognize applicants for their dedication to attainment of biliteracy.

Students in SCCSD that pass the AP Spanish Language and Culture exam with a minimum score of 3, and score proficient on Iowa Statewide Assessment of Student Progress (ISASP) will be awarded the Seal of Biliteracy on their diploma. Students will also receive a certificate of completion. For additional information, contact our World Languages Program Coordinator, (712) 279-6079.

TALENTED & GIFTED EDUCATION

In gifted education, a variety of programs and services are offered to meet the diverse needs of students. Services include concepts of enrichment, acceleration, guidance, and extended learning experiences. Students are selected for participation based on evidence of need and likelihood of success. Factors that determine what curriculum modifications would best serve the students’ educational needs include the students’ abilities, interests, and achievements.

Selection instruments include standardized test scores, student interviews, academic and motivation inventories, and portfolios of student work. Neither formal nor informal instruments outweigh one or the other in the selection process. A team approach is used to determine the most appropriate programs/services for students. Students who participated in TAG programming in the middle school are encouraged to continue taking honors and advanced placement courses in high school.

For more information on services provided in gifted education, parents and students are encouraged to visit with their teacher, counselor or principal or call the Director of Learning Supports, (712) 224-3643.

SECTION 504 OF THE REHABILITATION ACT OF 1973

Section 504 of the Rehabilitation Act of 1973 prohibits discrimination against persons with a disability in any program receiving federal financial assistance. No discrimination against any person with a disability should knowingly be permitted in any of the programs and practices of the school system.

The Sioux City Community School District has the responsibility under Section 504 to afford access to appropriate educational services to students who are determined to be eligible under Section 504. If the parent or guardian disagrees with the determination made by the professional staff of the school district, he/she has a right to a hearing with an impartial hearing officer.

The Family Educational Rights and Privacy Act (FERPA) also specifies rights related to educational records. This act gives the parent or guardian the right to: 1) inspect or review his/her child’s educational records; 2) make copies of these records; 3) receive a list of the individuals having access to those records; 4) ask for an explanation of any item in the records; 5) ask for an amendment to any report on the grounds that it is inaccurate, misleading, or violates the child’s rights; and 6) a hearing on the issue if the school refuses to make the amendment.

For additional information, contact the Director of Equity Education, (712) 279-6075.
PHYSICAL EDUCATION EXEMPTION (BOARD POLICY 602.11)

The physical education program is to provide opportunities and resources for students to acquire knowledge, discipline, and skills to develop physical fitness, holistic wellness, and a vigorous, healthy lifestyle. All students physically able shall be required to participate in the program for a minimum of one-eighth unit during each semester they are enrolled except as otherwise provided in this paragraph. A twelfth-grade student may be excused from this requirement by the principal of the school in which the student is enrolled under one of the following circumstances:

1. The student is enrolled in a cooperative, work-study, or other educational program authorized by the school, which requires the student's absence from the school premises during the school day.
2. The student is enrolled in academic courses not otherwise available.
3. An organized and supervised athletic program which requires at least as much time of participation per week as one-eighth unit of physical education. One-eighth unit per semester equals 900 minutes of physical education per semester for each physically able student enrolled. Only when participation in an organized and supervised athletic program equals 900 minutes during a semester may a senior be excused from physical education for that semester. For purposes of this section, an organized and supervised athletic program is one that is sponsored by the school or school district and employs licensed and appropriately endorsed staff. To qualify as organized and supervised athletic programs, for example, cheer squads, dance squads, and show choirs must be supervised by licensed employees or those with coaching endorsements.
4. Students in grades 9-11 may be excused from the physical education requirement in order to enroll in academic courses not otherwise available to them, subject to review of the Superintendent’s designee.
5. Students in grades kindergarten through twelve shall be considered physically able unless otherwise determined by a physician. If a student is diagnosed physically unable to participate in the physical education program, he/she shall submit written documentation signed by the attending physician that he/she is physically unable to participate. This documentation shall include the beginning and ending dates of nonparticipation. This documentation shall be returned to the physical education teacher and filed in their permanent record.

A student shall not be required to meet the requirements of this policy if the student’s parent or guardian files a written statement with the school counselor that the requirement conflicts with the student’s religious beliefs. This statement shall be filed in the counseling office. To comply with the Healthy Kids Act, the district will form an agreement with the student and his/her family to meet the required minutes per week that students are engaged in physical activity.

HUMAN GROWTH & DEVELOPMENT EXEMPTION

The Sioux City Community School District provides instruction in human growth and development. The topics include a) self-esteem, responsible decision making, and personal responsibility and goal setting; b) interpersonal relationships; c) discouragement of acquired immune deficiency syndrome, premarital adolescent sexual activity; d) family life and parenting skills; e) human sexuality, reproduction, contraception and family planning, prenatal development including awareness of mental retardation and its prevention, childbirth, adoption, available prenatal and postnatal support, and male and female responsibility; f) sex stereotypes; g) behaviors to prevent sexual abuse or sexual harassment; h) sexually transmitted diseases and their causes and prevention; i) substance abuse treatment and prevention; j) suicide prevention; and k) stress management. The human growth and development topics are taught in health classes as well as infused into many subject areas.

Parents are encouraged to examine the textbooks and educational materials, which are used at school. Your school principal will be happy to arrange an appointment so that you have the opportunity to become familiar with the curriculum in any subject area. Parents may have their children excused from the human growth and development classes by completing the Human Growth and Development Non-Participation form, which is available in the principal’s office.
FULL-TIME STUDENT

In order to be considered a full-time general education student in the Sioux City Community School District, each student shall schedule a minimum of five academic courses (credits) per semester. Physical education shall not be included as one of the five courses. Courses designated as Post Secondary Enrollment Option may be scheduled as part of the required five academic high school credits defining a full-time student. Students have the right to appeal the full-time student board policy to the Principal and to the Superintendent or his/her designee. (SCCSD Board Policy 684.06)

GRADE POINT AVERAGE CALCULATION

The method of computation for the weighted grade point average will be based on the GPA Plus formula beginning with the freshman class of 2011 (Board Policy AR605.4). Additional weight for the courses below is added to the student’s unweighted GPA after its typical calculation (+.02 per course per semester). Additional weight (.01) is added for earning 7.5 credits or more per semester and earning a 2.0 grade point average for that semester (See Parent/Guardian & Student Handbook for additional information).

English Composition I & II  Calculus I & II  Calculus w/Analytical Geometry  Advanced Calculus
College Physics I & II  Human Anatomy & Physiology I & II  All AP Courses

High school classes taken during middle school will be counted as high school credit toward graduation, and will be computed into the high school GPA.

SCHEDULE CHANGES

Schedule changes will normally occur at the beginning of the school year only for the following reasons:
- The student completed a course during summer school which is on the student’s schedule.
- The student must repeat a failed course from a previous year.
- There is an error on the student’s schedule.

A student who wishes to add a class to his/her schedule for one of the above reasons must do so within the first ten school days of the semester. A student who wishes to drop a class without penalty must do so within the first ten school days of the semester. No class will be dropped to accommodate an added class without the permission of the parent/guardian and the building principal or his/her designee. Students have the right to appeal the drop procedures to the building principal or his/her designee. (Board Policy 684.06)

TRANSFER OF COURSE WORK

Transfer grades from other districts presented on an official transcript will be evaluated by the building principal or his/her designee and assigned appropriate credit based on merit. The student’s transcript will be matched to the Sioux City Community School District’s graduation requirements.

Transfer students must successfully complete (pass and earn credit) five credits during the last semester of high school to earn a diploma from a Sioux City Community School District high school.

Home school credits will be accepted through the third year of high school. An official transcript from the accredited home school program must be submitted to the high school principal for evaluation.
GUIDEWAYS TO CAREER EXPLORATION

The Importance of Course Selection

The middle and high school years are viewed as a critical time that can determine a student’s future. Every spring, and starting in the 8th grade, our students make very important career choices when they register for next year’s classes. Each student has on file an Individual Career and Academic Plan (ICAP) that was completed prior to entering high school. It has two components:

1. Post-secondary and career goals
2. High school courses needed to reach their goals and meet graduation requirements.

Every year from then on, students revisit their ICAP, adjust their career goals, and select the courses needed to strengthen their educational foundation. It is through this process that our students graduate from high school college-, career-, and future-ready.

Setting Career Goals & Making Post-Secondary Decisions

Self-Discovery: All students are assigned to an advisory homeroom where a variety of activities are utilized to guide them toward determining their personal strengths, values & beliefs, and career interests. A tour of our Career Academy helps.

Career Exploration: Once students have a clearer understanding of who they are and where their interests lie, they explore career pathways and the different kinds of occupations that can be found within those pathways. This is the time for students to shadow certain jobs or attend a Career Fair.

Post-Secondary Exploration: Finding the right school is easiest for students when they know what kind of post-secondary training is needed to enter an occupation. This is the time for students to visit with recruiters, tour colleges & trade schools, or research apprenticeships.

Post-Secondary & Career Decision: As the process winds down, this is the time students select and apply to colleges or trade schools that best fit their personal strengths and career goals that emerged during the process. At this time students are encouraged to take the ACT or other college entrance exams and/or submit a FAFSA application that is often required for most kinds of financial aid, like scholarships and student loans.

Graduation: This must happen before any post-secondary goals can be met.

COLLEGE PREPARATORY CURRICULUM

Students should plan a program that will satisfy their interests and prepare them for further education and employment. Completion of the following program will assist students in meeting the admission requirements at most four-year colleges and universities, including all three Iowa public universities:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Arts</td>
<td>8 credits</td>
</tr>
<tr>
<td>Math</td>
<td>6 - 8 credits (must include Algebra I, Geometry, &amp; Algebra II)</td>
</tr>
<tr>
<td>Science</td>
<td>6 - 8 credits</td>
</tr>
<tr>
<td>Social Studies</td>
<td>6 - 8 credits</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>4 - 8 credits of the same foreign language for admission</td>
</tr>
</tbody>
</table>

(8 credits of the same language may be needed to satisfy college graduation requirements.)

Some colleges require fine arts and/or technology credits. Check with your post-secondary institution for specific admission requirements.
<table>
<thead>
<tr>
<th>Subject Area</th>
<th>The University of Northern Iowa</th>
<th>University of Iowa</th>
<th>Iowa State University</th>
</tr>
</thead>
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<tr>
<td>English / Language Arts</td>
<td>4 years: including one year of composition; also may include one year of speech, communication, or journalism.</td>
<td>4 years: with an emphasis on the analysis and interpretation of literature, composition, and speech.</td>
<td>4 years: emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.</td>
</tr>
<tr>
<td>Math</td>
<td>3 years: including the equivalent of algebra, geometry and advance algebra.</td>
<td>3 years: including two years of algebra and one year of geometry for admission to the College of Liberal Arts and Sciences.</td>
<td>3 years: including one year each of algebra, geometry, and advanced algebra.</td>
</tr>
<tr>
<td>Natural Science</td>
<td>3 years: including courses in general science, biology, chemistry, earth science, or physics; laboratory experience highly recommended.</td>
<td>3 years: including courses in physical science, biology, chemistry, environmental science and physics for admission to the College of Liberal Arts and Sciences. 3 years, including at least one year of chemistry and one year of physics, for admission to the College of Engineering. Nursing: 3 years including one year each of biology, chemistry and physics.</td>
<td>3 years: including at least two years of courses which emphasize elements of biology, chemistry, or physics.</td>
</tr>
<tr>
<td>Social Science</td>
<td>3 years: including courses in anthropology, economics, geography, government, history, psychology, or sociology.</td>
<td>3 years: with U.S. history and world history recommended for admission to the College of Liberal Arts and Sciences.</td>
<td>2 years: for admission to the College of Agriculture and Life Sciences, Business, Design, Human Sciences, and Engineering. 3 years: for admission to the College of Liberal Arts and Sciences.</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>Foreign Language courses are not required for admission. However, two years of a foreign language in high school with a C- or above in the last term will meet the university graduation requirement.</td>
<td>2 years: of a single foreign language are required for admission. For many degrees, the fourth year of proficiency is required for graduation. Nursing: minimum second-level proficiency in one world language.</td>
<td>2 years: of a single foreign language for admission to the College of Liberal Arts and Sciences and the College of Engineering. Foreign language courses aren't required for admission to the Colleges of Agriculture, Business, Design or Human Sciences.</td>
</tr>
<tr>
<td>Other Courses</td>
<td>2 years: of additional courses from the required subject areas, foreign languages, or fine arts.</td>
<td>Specific elective courses are not required for admission.</td>
<td>Specific elective courses are not required for admission.</td>
</tr>
</tbody>
</table>

Iowa high school students must achieve a Regent Admission Index (RAI) score of at least 245 and take the minimum number of required high school courses to qualify for automatic admission as freshmen to Iowa State University, the University of Northern Iowa, and the College of Liberal Arts and Sciences at the University of Iowa. Students who achieve a score less than 245 will be considered for admission on an individual basis. The index combines four factors that strongly predict success at regent universities: ACT or SAT test score, high school rank, high school cumulative GPA and the number of completed high school core courses.

Index Formula: \[(2 \times \text{ACT composite score}) + (1 \times \text{percentile high school rank}) + (20 \times \text{high school GPA}) + (5 \times \text{number of years of RAI-approved high school courses completed in the core subject areas}) = \text{RAI Score}\]

Note: For purposes of calculating the RAI, SAT scores will be converted to ACT composite equivalents, 99% is the top value for high school rank, 4.00 is the top value for GPA, and the number of high school core courses completed is expressed in terms of years or fractions of years (e.g., one semester equals 0.5 year).
**NCAA REQUIREMENTS**

The National Collegiate Athletic Association is an organization dedicated to providing a pathway to opportunity for college athletes. More than 1,000 colleges and universities are members of the NCAA. The NCAA's diverse members include schools ranging in size from those with hundreds of students to those with tens of thousands. The NCAA's current three-division structure was adopted to create a fair playing field for teams from similar schools and provide college athletes more opportunities to participate in national championships. To learn more about the pathway that is right for you, visit ncaa.org/divisions.

**NCAA Eligibility Center**

Initial-eligibility standards help ensure you are prepared to succeed in college. It also determines your ability to compete and receive an athletics scholarship in your first year as a Division I or Division II full-time college student. The eligibility process also protects the fairness and integrity of college sports by ensuring student athletes are amateurs. For more information concerning NCAA eligibility, visit www.eligibilitycenter.org

**ACADEMIC REQUIREMENTS**

To play sports at a Division I or II school, you must graduate from high school, complete 16 NCAA-approved core courses, earn a minimum GPS and earn an ACT or SAT score that matches your core-course GPA.

<table>
<thead>
<tr>
<th>Complete 10 NCAA Core courses, including seven English, math, or natural/physical science, before your seventh semester.</th>
</tr>
</thead>
</table>
| **Division I**  
**16 Core Courses**  
4 years of English  
3 years of mathematics (Algebra I or higher)  
2 years of natural/physical science (1 year of lab if offered by high school)  
1 year of additional English, mathematics or natural/physical science  
2 years of social science  
4 years of additional courses (from any area above, foreign language, comparative religion, or philosophy) |
| **Division II**  
**16 Core Courses**  
3 years of English  
2 years of mathematics (Algebra I or higher)  
2 years of natural/physical science (1 year of lab if offered by high school)  
3 years of additional English, mathematics or natural/physical science  
2 years of social science  
4 years of additional courses (from any area above, foreign language, comparative religion, or philosophy) |

**Grade-Point Average**

The NCAA Eligibility Center calculates your grade-point average based only on the grades you earn in NCAA-approved core courses.

- DI requires a minimum 2.3 GPA
- DII requires a minimum 2.2 GPA

**Sliding Scale**

Division I and II use sliding scales to match test scores and GPAs to determine eligibility. The sliding scale balances your test scores with your GPA. If you have a lower test score, you need a higher GPA to be eligible. Find more information about test scores at www.ncaa.org/test-scores.com.

**Test Scores**

You may take the SAT or ACT an unlimited number of times before you enroll full-time in college. Every time you register for the SAT or ACT, use the NCAA Eligibility Center code 9999 to send your scores directly to the NCAA from the testing agency. The NCAA accepts official scores only from the SAT or ACT and won't use scores shown on your high school transcript. If you take either test more than once, the best subscore from different tests is used to give you the best possible score.
POST-SECONDARY ENROLLMENT OPTIONS ACT

The Postsecondary Enrollment Options Act was enacted in 1987 to promote rigorous academic pursuits and to provide a wider variety of options to high school students by enabling them to enroll part time in nonsectarian courses in eligible postsecondary institutions of higher learning in Iowa. Students can earn both high school and postsecondary credit through this program. More information about this program may be obtained by contacting the high school counseling department or the Director of Secondary Education, 712-279-6676.

1. Students must complete an application form that is available in the high school counseling office. The application must be approved by the student’s counselor and the Director of Secondary Education. Prior approval is required for each course.
2. Summer school postsecondary courses are not included in this program.
3. Transportation will be the responsibility of the student or parent and costs are not reimbursable.

Students who drop their PSEO courses after the prescribed time, will receive an F on their report card.

Students who have graduated from high school are not eligible under this Act. Receipt of a diploma does not determine when graduation will occur.

THE ADVANCED PLACEMENT (AP) PROGRAM

Advanced Placement is a program of college-level courses and exams that give high school students the opportunity to receive “bonus GPA points” and/or college credit. Students who wish to earn bonus GPA points must take the AP Exam upon completion of the AP courses. The number of college credits awarded for each AP course is subject to the individual college policy, department review, and approval. The number of high school credits earned for each AP course is listed below.

<table>
<thead>
<tr>
<th>COURSE NAME</th>
<th>HIGH SCHOOL CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP American History</td>
<td>2</td>
</tr>
<tr>
<td>AP Biology</td>
<td>2</td>
</tr>
<tr>
<td>AP Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>AP Computer Science A- PLTW</td>
<td>2</td>
</tr>
<tr>
<td>AP Computer Science Principles- PLTW</td>
<td>2</td>
</tr>
<tr>
<td>AP English Language and Composition</td>
<td>2</td>
</tr>
<tr>
<td>AP English Literature &amp; Composition</td>
<td>2</td>
</tr>
<tr>
<td>AP Environmental Science</td>
<td>2</td>
</tr>
<tr>
<td>AP European History</td>
<td>2</td>
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DUAL CREDIT

Dual credit refers to successfully completing a course for which the student receives both high school and college credits. This may be a high school course that also carries college credit, or a college course that also carries high school credits, such as those in the Postsecondary Enrollment Options Program. Courses that may be used for dual credit are designated with the notation “Dual Credit w/(name of appropriate institution).”

ARTICULATION

Articulation is the process of mutually agreeing upon core competencies and performance levels transferable between institutions and programs for college credit. The purpose of articulation is to enable students enrolled in high school courses to transfer to the Community College and receive college credit for the competencies achieved at the high school. Upon course completion, students must check with the instructor to ensure the necessary forms are sent with the high school transcript.

HIGH SCHOOL INTERNSHIPS

High School Internships are available for juniors and seniors who are interested in participating in career experiences during high school. Students are able to earn academic credit while exploring careers in all Career Pathways. Internship assignments are arranged in conjunction with the school counselor.

THE SIOUX CITY CAREER ACADEMY

The Sioux City Career Academy allows students to make a connection between their education and their future with meaningful, real-world experiences. The Sioux City Community School District understands students today are entering a highly competitive global workforce. In order to be successful, students need adaptable skills and knowledge to meet the demands of the ever-changing economy. That is why we created the Sioux City Career Academy.

Find a Focus or Experience it All

The Sioux City Career Academy offers over 30 pathways for students to explore. Each pathway is a career-focused sequence of courses that integrates core academic knowledge with technical and occupational knowledge to provide students with a pathway to post-secondary education and careers. By enrolling in Career Academy courses, students can benefit from both high school and college credits, at no cost to students or parents.

For the student with a clear vision for his or her future career and education goals, the opportunity exists to follow a pathway from start to finish. In many instances, focusing on one career pathway can help a student earn enough credits to fulfill a year of a bachelor’s degree, complete an associate’s degree, or even earn a certification in the field of emphasis. For the student still exploring what the future holds – the Sioux City Career Academy allows exploration. Students can test a class in any pathway until he or she finds a passion, because deciding to participate in the Sioux City Career Academy does not limit a student to testing just one career opportunity. Rather, exploring these pathways in high school allows students to make a more educated decision about a future college major or career selection.

The next few pages of this catalog will outline the complete list of Career Academy pathways, and corresponding courses, to be offered for the academic year.
<table>
<thead>
<tr>
<th>Course Title</th>
<th>High School Course #</th>
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## COLLEGE CREDIT FOR HIGH SCHOOL COURSES

All College Credit Granted by Western Iowa Tech Community College (WITCC)

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AF JROTC
AGRICULTURE
AUTO BODY
AUTO TECH
BIOMEDICAL SCIENCE
BUSINESS MANAGEMENT/
ADMINISTRATION
CERTIFIED NURSE ASSISTANT
CHILD DEVELOPMENT ASSOCIATE
COMPUTER SCIENCE
CONSTRUCTION
CULINARY
EARLY CHILDHOOD EDUCATION
EDUCATION
ENGINEERING
ENTREPRENEURSHIP/
SMALL BUSINESS

SIoux City
CAREER ACADEMY
Pathways to the future
MOBILE GAME & APP DEVELOPMENT
NETWORK SYSTEMS
PHARMACY TECH
PLUMBING
POLICE SCIENCE
SURGICAL TECH
WELDING

FASHION DESIGN
FINANCE
FIRE SCIENCE
GRAPHIC DESIGN
HOME BUILDING
INFORMATION TECHNOLOGY
INTERIOR DESIGN
MANUFACTURING
MARKETING
MASS COMMUNICATION
# SIOUX CITY CAREER ACADEMY PATHWAYS & COURSES

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**AF-JROTC**

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## SIOUX CITY CAREER ACADEMY PATHWAYS & COURSES

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# SIOUX CITY CAREER ACADEMY PATHWAYS & COURSES

## EARLY CHILDHOOD EDUCATION (ECE) / CHILD DEVELOPMENT ASSOCIATE (CDA)

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## ENTREPRENEURSHIP AND SMALL BUSINESS

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- B019 Business 101            | 2
- B029 Microsoft Office Suite  | 2

### Specialization Courses
- B001 Accounting I            | 2
- B006 Business & Personal Law | 1
- B007 Sales & Marketing       | 1
- B018 Business Entrepreneurship| 2
- B600 Introduction To Business| 1
- B601 Principles of Management | 1
- B602 Human Resource Management| 1
- B605 Principles of Marketing | 1
## Sioux City Career Academy Pathways & Courses

### Fashion Design

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<td>Hazardous Materials: Operations Level</td>
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<td>Emergency Fire Responder</td>
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**Specialization Courses**

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<td>Wall Coverings and Coatings</td>
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18
# SIOUX CITY CAREER ACADEMY PATHWAYS & COURSES

## INFORMATION TECHNOLOGY / NETWORK SYSTEMS

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<td>Fundamentals of Network Security</td>
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## INTERIOR DESIGN

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## MARKETING

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**Foundation Course**

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<td>Digital Color Theory</td>
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<td>Computer &amp; Yearbook Application</td>
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### MASS COMMUNICATION

**Foundation Course**
- 1022 Mass Communications 2

**Specialization Courses**
- B630 Media Production & Equipment 1 3
- B631 Audio Production & Equipment 1 3

**Capstone Courses**
- B640 Technical Production in Media 1 3
- B641 Studio Production in Mass Communications 1 3

### MOBILE GAME & APP DEVELOPMENT

**Specialization Courses**
- 9GG0A Swift & The Internet of Things 2 3
- 9GG1A UI / UX Design 2 3
- 9GG3B Digital Art & 3D Design 2 3
- 9GG2B Game Programming 2 2

### PHARMACY TECH

**Year 2**
- 7615 Health Careers & Teams I 1 3
- 7025 Health Careers & Teams II 1

**Year 3**
- 7611 Medical Terminology 1 3
- 7612 Issues in Health & Society 1 3

**Year 4**
- 7G78A Introduction to Pharmacy Technology 1 3
- 7G79A Pharmacy Calculations and Compounding 1 3
- 7G80A Pharm. Technician Practicum 1 2
- 7G81B Pharmacology for Pharmacy Technician 1 3
- 7G82B Pharmacy Law .5 1
- 7G83B Pharmacy Tech. Practicum .5 2

### POLICE SCIENCE

**Year 3**
- 8603 Introduction to Criminal Justice 1 3
- 8609 Ethics in Criminal Justice 1 3

**Year 4**
- 8608 Introduction to Corrections 1 3
- 7634 Emergency Police Responder 1 2

### PLUMBING

**Year 1**
- 9000 Industrial Arts Technology 2

**Year 2**
- 9031 Welding I 2

**Year 3**
- 9GE6A Basic Plumbing 1 2
- 9GE7A Blueprint Reading and Estimating 1 2
- 9GE8A Industrial Safety 1 1
- 9GE9A Basic Electrical Theory 1 3
- 9GF0B Industrial Plumbing and Pipefitting 2 3
- 9GF1B Building Codes and Specifications 1 3
- 9GF2B Commercial Fixtures 1 2

**Year 4**
- 9GF3A Residential Piping 2 3
- 9GF4A Residential Code 1 2
- 9GF5A Residential Fixtures 1 3
- 9GF6B Commercial Piping 2 3
- 9GF7B Commercial Code 1 2
- 9GF8B Plumbing Troubleshooting 1 2

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**SIoux City Career Academy Pathways & Courses**

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## SIOUX CITY CAREER ACADEMY PATHWAYS & COURSES

### SURGICAL TECH

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<td></td>
<td>9G83A</td>
<td>Measuring, Layout, &amp; Applied Weld Symbols</td>
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<td>9G84B</td>
<td>Introduction to Pulse ARC GMAW Weld</td>
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<td>9GE8A</td>
<td>Industrial Safety</td>
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<td>9GF9B</td>
<td>Welding Blueprint Reading</td>
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</table>
# ACCOUNTING

## Foundation Course

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Credit</th>
<th>GPA</th>
<th>Elective/Required</th>
<th>Prerequisite</th>
<th>Grade Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>B019</td>
<td>Business 101</td>
<td>2</td>
<td>Yes</td>
<td>Elective</td>
<td>None</td>
<td>9-12</td>
</tr>
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</table>

## Specialization Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Credit</th>
<th>GPA</th>
<th>Elective/Required</th>
<th>Prerequisite</th>
<th>Grade Level</th>
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<tr>
<td>B001</td>
<td>Accounting I</td>
<td>2</td>
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<td>Elective</td>
<td>Successful completion of Accounting I</td>
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<tr>
<td>B020</td>
<td>Accounting II</td>
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<td>Successful completion of Accounting I</td>
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<td>B050</td>
<td>Accounting III</td>
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<td>B600</td>
<td>Introduction to Business</td>
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<td>B601</td>
<td>Principles of Management</td>
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<td>Elective</td>
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<td>9-12</td>
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<tr>
<td>B602</td>
<td>Human Resource Management</td>
<td>1</td>
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<td>Elective</td>
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<tr>
<td>B605</td>
<td>Principles of Marketing</td>
<td>1</td>
<td></td>
<td>Elective</td>
<td></td>
<td>9-12</td>
</tr>
</tbody>
</table>

## Business 101

**Course Number:** B019  
**Credit:** 2  
**GPA:** Yes  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 9-12  
**Course Description:** This year-long course is designed to introduce students to the pathways and programs of study available in Business Education in the Sioux City Community Schools. The content of this course provides a broad overview about several areas of the business world; entrepreneurship, accounting/finance, marketing, management, employability skills, and global business. Students will be able to learn about and explore the industry of business through projects and hands-on activities. After completing this course, the student will be able to determine which area they would like to pursue within the field of business.

## Accounting I

**Course Number:** B001  
**Credit:** 2  
**GPA:** Yes  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 9-12  
**Course Description:** Accounting I is a course designed to teach the recording and analyzing of financial records of a sole proprietorship. It includes, through both manual and computer accounting technology, how to keep financial records, summarizing for convenient interpretation, and the ability to determine how to improve a financial situation. The course develops an understanding of the steps of the accounting cycle for a sole proprietorship. It involves practical application of math skills needed in business, basic adding, subtraction, multiplication and division, as well as formulas and functions for spreadsheet analysis. The course also examines the managerial use of accounting information, explores career choices in the field of accounting, and looks into current business ethics.  
_to receive WITCC Articulated credit, course #B001, Accounting I must also be completed._

## Accounting II

**Course Number:** B020  
**Credit:** 2  
**GPA:** Yes  
**Elective/Required:** Elective  
**Articulation:** WITCC  
**Prerequisite:** Successful completion of Accounting I  
**Grade Level:** 10-12  
**Course Description:** Accounting II is an advanced accounting course designed to teach recording and analyzing of financial records of a corporation. It includes completing the steps of the accounting cycle for a corporation and an in-depth study of various cash accounts, accounts receivable merchandise inventory, and plant asset depreciation. Special emphasis will be placed on developing ways of understanding business information by analyzing and interpreting financial statements, how to summarize for interpretations, and how to analyze to be able to give steps necessary to improve a financial situation. The course expands the utilization of computerized accounting for financial records, and continues to stress good business ethics. It emphasizes basic math and problem-solving skills, and analysis and interpretation of data.  
_to receive WITCC Articulated credit, course #B001, Accounting I must also be completed._

## Accounting III

**Course Number:** B050  
**Credit:** 2  
**GPA:** Yes  
**Elective/Required:** Elective  
**Prerequisite:** Successful completion of Accounting II  
**Grade Level:** 11-12  
**Course Description:** The students will work on an independent basis and will build upon the concepts learned in Accounting I and II. It is an excellent way for students who are truly interested in the accounting profession to broaden their knowledge and prepare for future accounting courses. It includes learning accounting procedures for partnerships not-for-profit organizations, and learning about special accounting systems such as cost, departmental, branch, voucher system and manufacturing accounting.

## Introduction to Business

**Course Number:** B600  
**Credit:** 1  
**GPA:** Yes  
**Elective/Required:** Elective  
**Dual Credit WITCC:** BUS-102  
**Prerequisite:** None  
**Grade Level:** 11-12  
**Proficiency Required:** ISASP or ACT  
**Course Description:** This course provides a broad overview of business including internal and external functions. Topics include economics, marketing, entrepreneurship, and management as well as related domestic and international business issues.
Principles of Management
Course Number: B601  (Sem. 2)  Credit: 1  GPA: Yes  Elective/Required: Elective  Dual Credit WITCC: MGT-101  Prerequisite: None  Grade Level: 11-12  Proficiency Required: ISASP or ACT  Course Description: This course introduces students to the role of planning, organizing, staffing, directing, and controlling in formal and informal organizations of all sizes. This course presents theoretical bases and real world examples of implementation.

Human Resource Management
Course Number: B602  (Sem. 1)  Credit: 1  GPA: Yes  Elective/Required: Elective  Dual Credit WITCC: MGT-170  Prerequisite: None  Grade Level: 10-12  Proficiency Required: ISASP or ACT  Course Description: This course is a combination of theoretical and practical approaches to human resource management. Topics include job design, employee selection, employee development, employee appraisal, and employee termination. Additionally, it explores federal statutes relating to EEO, Affirmative Action, OSHA, and labor unions and also addresses, employee compensation and fringe benefit packages.

Principles of Marketing
Course Number: B605  (Sem. 2)  Credit: 1  GPA: Yes  Elective/Required: Elective  Dual Credit WITCC: MKT-110  Prerequisite: None  Grade Level: 10-12  Proficiency Required: ISASP or ACT  Course Description: This course covers consumer and organizational buying behavior, targeting market opportunities, developing and managing new products, marketing channels, logistics, and strategic market planning and implementation. This course examines marketing from the consumer’s and organizational perspective.

AF-JROTC
X068  AS1 Aviation History  2
X069  AS2 Science of Flight  2
X070  AS3 Exploring Space  2
X071  AS4 Cultural Studies  2
X072  AS5 Flight School  2

The mission of the AF-JROTC program is to “Develop citizens of character dedicated to serving their nation and community.” We educate and train students in citizenship and life skills; promote community service; instill a sense of responsibility; and develop character and self-discipline through education and instruction in air and space fundamentals and the Air Force’s core values of “Integrity first, service before self and excellence in all we do.” Each course contains components of aerospace science, leadership education, physical fitness and personal wellness. In addition, elements of drill, current events and life skills will be incorporated into each year’s curriculum. The courses that are offered rotate each year so cadets will not repeat a course even if they take JROTC for all four years of high school. Uniform wear and adherence to Air Force grooming standards are an important part of the JROTC leadership instruction. Air Force style uniforms, which are provided at no cost to the cadets, are normally worn one day each week.

AF-JROTC members may choose to participate in Cadet Corps extracurricular functions and community service activities. These activities provide a memorable way to enhance their experience and leadership growth. AF-JROTC enrollment DOES NOT require you to enlist in the military after graduation. But, should you choose to enlist, you may accrue enlistment benefits and receive college credit.

AS1 Aviation History
Course Number: X068  (Sem. 1 and Sem. 2)  Credit: 2  GPA: Yes  Elective/Required: Elective  Prerequisite: Must be willing to comply with AF-JROTC grooming guidelines  Grade Level: 9-12  Course Description: AS1 serves as an introduction to AF-JROTC. Students will study the history of airpower (including the heritage of flight, development of airpower, toward military aerospace and contemporary aviation), leadership education (including military heritage, organization and traditions of the air force, individual self-control and citizenship in the United States) and health and fitness.
AS2 Science of Flight
Course Number: X069 (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective  
Prerequisite: Must comply with JROTC grooming guidelines  
Grade Level: 9-12  
Course Description: Students in AS2 will study the science of flight (including the aerospace environment, human requirements of flight, principals of aircraft flight and principles of navigation), leadership education (including effective communication skills, understanding individual behavior, understanding group behavior and basic leadership concepts) and health and fitness.

AS3 Exploring Space
Course Number: X070 (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective  
Prerequisite: Must comply with JROTC grooming guidelines  
Grade Level: 9-12  
Course Description: AS3 begins to develop the leadership capabilities of the student and look at life beyond high school. Students in AS3 will study the exploration of space (including an introduction to space exploration, orbits and trajectories, spacecraft and launch vehicles, and mission operations and management) leadership education (including choosing your path, the job search, financial planning and career opportunities) and health and fitness.

AS4 Cultural Studies
Course Number: X071 (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective  
Prerequisite: Must comply with JROTC grooming guidelines; 2 years AF-JROTC experience  
Grade Level: 9-12  
Course Description: AS4 students will study cultural studies: an introduction to global awareness. Students will learn about world cultures through the study of world affairs, regional studies, and cultural awareness. They will examine history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns, and human rights. They will look at major events and significant figures that have shaped each region. In AS4, students gain practical experience in leadership and accomplishing mission objectives. Additionally, students will focus on management techniques, management decisions, management functions, and managing self and others. This course will equip students with the qualities needed to serve in leadership positions within the corps and after high school. AS4 students will continue the health and fitness

Air Force leadership electives: The leadership portion of the curriculum may incorporate one of the following Air Force electives: (E1) -Unlocking Your Potential, (E2) - National Endowment for Financial Education, (E3) - Congressional Medal of Honor Foundation, (E4) - Pennsylvania Veterans Museum, (E5) - Veteran National Education Act Elective, or (E6) - Cadet Guide. A student will not receive more than two Air Force electives over a four year curriculum.

AS5 Flight School
Course Number: X072 (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective Honors Course  
Prerequisite: Must comply with JROTC grooming guidelines; have completed 2 years AFJROTC experience and have maintained a grade of C or above; have completed the JROTC Science of Flight course two years prior. Promising cadets must be approved for the course in advance by a JROTC Instructor.  
Grade Level: 10-12  
Course Description: This course is an advanced, more in-depth study of aerospace topics. This academically challenging course is the foundation for students interested in receiving a private pilot license. When the course is complete the student should be prepared to take and pass the Federal Aviation Administration (FAA) written examination. This is a two semester class. Topics covered include: human factors, flight operations, the atmosphere and its effect on aircraft operations, the basics of navigation using charts and radio aids and the principles of aeronautical decision-making and flight-related physiological factors.

AGRICULTURE

Year 1  
900L Introduction to AFNR - CASE 2

Year 2  
96D0A Survey of the Animal Industry 1  
96D1B Career Seminar 1

Year 3  
96D2A Principles of Agronomy 1  
96D3B Foods of Animal Origin 1

Introduction to AFNR - CASE
Course Number: 900L (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 9-12  
Course Description: Introduction to Agriculture, food, and natural Resources – CASE offers many opportunities for students to experience an overview of the fields of agricultural science and natural resources as well as an
introduction to agricultural opportunities and the pathways of study in agriculture. Students work in teams to document a project, conduct research, solve problems, analyze data and communicate their solutions to their peers and members of the professional community. Students also explore career and post-secondary opportunities in each area of the course. AFNR lessons align with national standards for agriculture, science, math, and English Language Arts.

Survey of the Animal Industry
Course Number: 96D0A (Sem. 1)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: AGS-113
Prerequisite: None
Grade Level: 9-12
Course Description: Students will be introduced to a broad spectrum of animal science issues and topics in this lecture and lab course. Beef, swine, dairy, horse, aquatic, and poultry production are presented. Students will study animal anatomy, livestock nutrition, animal health, and biotechnology as it applies to the animal industry.

Career Seminar
Course Number: 96D1B (Sem. 2)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: AGC-216
Prerequisite: None
Grade Level: 9-12
Course Description: Students will learn about agriculture and related industries by exploring the many opportunities that are available in the profession both nationally and internationally. Students will study the earnings and benefits, working conditions, employment data, and training and advancement opportunities to make informed career decisions.

Principles of Agronomy
Course Number: 96D2A (Sem. 1)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: AGA-114
Prerequisite: None
Grade Level: 9-12
Course Description: Students will learn about practical crop production and the science behind it. This course introduces them to a history of crop production, the roles and fundamentals of plant and soil science, programs for weed, disease, and insect control, how to meet human needs with plants, a study of alternative farm crops, and sustainable agriculture.

Foods of Animal Origin
Course Number: 96D3B (Sem. 2)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: AGS-270
Prerequisite: None
Grade Level: 9-12
Course Description: Students will learn about the foods of animal origin in this agri-food science course that deals with world food needs and available food supplies, the science of foods, their nutritive value and use, and the methods used in food production, transportation, preservation/processing, storage, distribution, marketing, and consumption.

AUTO BODY

Year 1
9000 Industrial Arts Technology 2

Year 2
9015 Auto Body I 2

Year 3
9699 Sheet Metal Welding 2
96A0 Sheet Metal Fundamentals 2

Year 4
96B1 Plastic Repair 2
96B2 Structural Repair 2

Industrial Arts Technology
Course Number: 9000 (Sem. 1 and Sem. 2)
Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-11
Course Description: This course is designed to introduce CTE courses in the 21st century. Students will receive coursework in several areas of the industrial world (safety, engineering, manufacturing, power, construction). Time will be spent both in the classroom and hands on laboratory settings. After completing this course, the student will have a broader view of which area they would like to pursue in the future of CTE.

Auto Body I
Course Number: 9015 (Sem. 1 and Sem. 2)
Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12 Taught at Harry Hopkins Center
Course Description: This is a very hands-on class working in the auto body field. It is intended to introduce students to the basic ideas and operations of auto body repair. It includes metal straightening, welding, and painting through the use of hand and tool operations using modern equipment. Students are encouraged to repair their own vehicle or we also have projects for students to work on.
Sheet Metal Welding
Course Number: 9699 (Sem. 1) Credit: 2 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: CRR-102
Prerequisite: None
Grade Level: 11-12 Taught at Harry Hopkins Center
Course Description: This course will provide a working knowledge of oxyacetylene usage, MIG welding, along with TIG welding procedures. Specific welding procedures producing necessary weld constructions used in the automotive trade will be emphasized. The student develops skills through practice when completing industry accepted automotive welds on 22 gauge mild steel.

Sheet Metal Fundamentals
Course Number: 96A0 (Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: CRR-323
Prerequisite: None
Grade Level: 11-12 Taught at Harry Hopkins Center
Course Description: This course provides the student with the basic theory of metal straightening, tool skill development, auto body nomenclature, and the materials commonly used to complete the repairs. Students practice roughing, shaping, sheet metal fabrication, metal finishing, and the use of body fillers on automotive body panels.

Plastic Repair
Course Number: 96B1 (Sem. 1) Credit: 2 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: CRR-202
Prerequisite: None
Grade Level: 11-12 Taught at Harry Hopkins Center
Course Description: This course provides students with the knowledge necessary to identify and repair the various plastic and fiberglass panels used in modern vehicle construction.

Structural Repair
Course Number: 96B2 (Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: CRR-533
Prerequisite: None
Grade Level: 11-12 Taught at Harry Hopkins Center
Course Description: This course examines the removal, replacement and accepted sectioning procedures of inner structural panels using industry accepted repair procedures. Proper application of anti-corrosion materials to structural repaired areas of enclosed rails and boxed sections are presented.

AUTO TECH

Year 1
9000 Industrial Arts Technology 2

Year 2
9022 Power Mechanics 2

Year 3
96E4 Into to Auto Tech 2
9697 Auto Electricity/Electronics 2

Year 4
96B4 Auto Engine Repair 2
9698 Automotive Electrical Systems 2

Industrial Arts Technology
Course Number: 9000 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-11
Course Description: This course is designed to introduce CTE courses in the 21st century. Students will receive coursework in several areas of the industrial world (safety, engineering, manufacturing, power, construction). Time will be spent both in the classroom and hands on laboratory settings. After completing this course, the student will have a broader view of which area they would like to pursue in the future of CTE.

Power Mechanics
Course Number: 9022 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12 Taught at Harry Hopkins Center
Course Description: This is a two-semester class that is very beneficial to students exploring any or all Mechanical Career Clusters. This is a very hands-on class with auto mechanics being the main focus of the course. Students will use an online textbook for course content and testing. This information will be supplemented with instructor lectures, videos and live lab procedures. The students are encouraged to furnish vehicles for repairs at the appropriate times. This is not mandatory as there will be vehicles available for live lab exercises. Some of the areas of study will include: automotive maintenance, introduction to brakes, steering and suspension and basic electrical.
Introduction to Automotive Technology
Course Number: 96E4 (Sem. 1)
Credit: 2
Elective/Required: Elective
Prerequisite: None
Grade Level: 11-12
Taught at Harry Hopkins Center
Course Description: 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.

Automotive Electrical Systems
Course Number: 9698 (Sem. 2)
Credit: 2
GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 11-12
Taught at Harry Hopkins Center
Course Description: This course introduces students to electrical theory, diagnosis, and service practices related to the electrical systems found on today's automobiles. There is an emphasis on battery starting and charging systems, lighting systems, and hybrid vehicle electrical systems. Practical applications of schematics and electrical system diagnosis using circuit theory are discussed.

BIOMEDICAL SCIENCE
Year 1
7016 Principles of Biomedical Science - PLTW 2
Year 2
7026 Human Body Systems - PLTW 2
Year 3
7036 Medical Interventions - PLTW 2
Year 4
7046 Biomedical Innovation - PLTW 2

Principles of Biomedical Science - PLTW
Course Number: 7016 (Sem. 1 and Sem. 2)
Credit: 2
GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: In this introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Automotive Electricity/Electronics
Course Number: 9697 (Sem. 2)
Credit: 2
GPA: Yes
Elective/Required: Elective
Prerequisite: Power Mechanics
Grade Level: 11-12
Taught at Harry Hopkins Center
Course Description: This course covers theory, diagnosis and service practices related to electronic systems found on today's automobiles. The basics of electricity, meter use and circuit analysis will be extensively covered. Special emphasis is made in the areas of schematics use, electrical system diagnosis, and circuity theory. Semiconductor use and computer operation will also be covered.

Automotive Engine Repair
Course Number: 96B4 (Sem. 1)
Credit: 2
GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 11-12
Taught at Harry Hopkins Center
Course Description: This is a combined lecture and lab course that provides information in areas of engine mechanical diagnosis and service. It includes lab experience in the overhaul of a variety of automotive engines, cylinder head service, and engine machining. It also covers overhead cam and multiple valve technology.
Human Body Systems - PLTW
Course Number: 7026  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal manikin, use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration, and take on the roles of biomedical professionals to solve real-world medical cases.

Medical Interventions - PLTW
Course Number: 7036  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 11-12
Course Description: Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat various diseases. Students explore how to detect and fight infection, screen and evaluate the code in human DNA, evaluate cancer treatment options, and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Biomedical Innovation- PLTW
Course Number: 7046  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 11-12
Course Description: In this capstone course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for many of the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

BUSINESS MANAGEMENT & ADMINISTRATION
Foundation Course
Course Number: B019  Business 101  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-10
Course Description: This year-long course is designed to introduce students to the pathways and programs of study available in Business Education in the Sioux City Community Schools. The content of this course provides a broad overview about several areas of the business world; entrepreneurship, accounting/finance, marketing, management, employability skills, and global business. Students will be able to learn about and explore the industry of business through projects and hands-on activities. After completing this course, the student will be able to determine which area they would like to pursue within the field of business.

Specialization Courses
Course Number: B001  Accounting I  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Course Number: B006  Business & Personal Law
Credit: 1
Course Number: B007  Sales & Marketing
Credit: 1
Course Number: B018  Business Entrepreneurship
Credit: 2
Course Number: B600  Introduction to Business
Credit: 1
Course Number: B601  Principles of Management
Credit: 1
Course Number: B602  Human Resource Management
Credit: 1
Course Number: B605  Principles of Marketing
Credit: 1

Microsoft Office Suite
Course Number: B029  Microsoft Office Suite  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: Students will learn how to work through a Windows environment to access and utilize Microsoft Office Suite, Introductory and advanced features are taught in Microsoft Word, Microsoft Excel spreadsheet application, PowerPoint presentation software and an introduction to Access database. They will obtain skills used in the business world. Industry certification available.
Accounting I
Course Number: B001  (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: Accounting I is a course designed to teach the recording and analyzing of financial records of a sole proprietorship. It includes, through both manual and computer accounting technology, how to keep financial records, summarizing for convenient interpretation, and the ability to determine how to improve a financial situation. The course develops an understanding of the steps of the accounting cycle for a sole proprietorship. It involves practical application of math skills needed in business, basic adding, subtraction, multiplication and division, as well as formulas and functions for spreadsheet analysis. The course also examines the managerial use of accounting information, explores career choices in the field of accounting, and looks into current business ethics. To receive WITCC Articulated credit, course #B020, Accounting II must also be completed.

Business & Personal Law
Course Number: B006  (Sem. 1 or Sem. 2)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: This program gives background information in law as it relates to the average individual and problems they may encounter with the law and their consumer rights. It is also related to the business aspect regarding contract, criminal, and tort law. This is helpful to anyone for personal use, but also for background knowledge if you intend a career from court reporters to paralegals, lawyers, legal secretaries or law enforcement personnel.

Sales & Marketing
Course Number: B007  (Sem 1 or Sem. 2)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: Students will learn sales and marketing strategies used in the business world. This class incorporates advertising techniques and their effect on sales and uses Power Point software on computers to make presentations on business products or services. Projects are a big part of the course. This course serves as a foundation for possible career paths in sales, marketing, or general business.
Human Resource Management
Course Number: B602  (Sem. 1)  GPA: Yes
Credit: 1
Elective/Required: Elective  Dual Credit WITCC: MGT-170
Prerequisite: None
Grade Level: 10-12
Proficiency Required: ISASP or ACT
Course Description: This course is a combination of theoretical and practical approaches to human resource management. Topics include job design, employee selection, employee development, employee appraisal, and employee termination. Additionally, it explores federal statutes relating to EEO, Affirmative Action, OSHA, and labor unions and also addresses, employee compensation and fringe benefit packages.

Principles of Marketing
Course Number: B605  (Sem. 2)  GPA: Yes
Credit: 1
Elective/Required: Elective  Dual Credit WITCC: MKT-110
Prerequisite: None
Grade Level: 10-12
Proficiency Required: ISASP or ACT
Course Description: This course covers consumer and organizational buying behavior, targeting market opportunities, developing and managing new products, marketing channels, logistics, and strategic market planning and implementation. This course examines marketing from the consumer’s and organizational perspective.

CERTIFIED NURSE ASSISTANT
Year 2
7615  Health Careers & Teams I  1
7025  Health Careers & Teams II  1
Year 3
7611  Medical Terminology  1
7612  Issues in Health & Society  1
Year 4
7613  Nurse Aide Theory  1
7614  Nurse Aide Clinical  1
7608  Advanced Nurse Aide  2

Health Careers & Teams I
Course Number: 7615  (Sem. 1)  GPA: Yes
Credit: 1
Elective/Required:  Elective  Dual Credit WITCC: HSC-109
Prerequisite: None
Grade Level: 10-12
Course Description: This course is a one semester course 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. Students will tour several hospital departments and have an opportunity to hear from healthcare professionals about career options. It also provides instruction in browsing the internet, using email, and other computer literacy tools necessary for taking online courses and for careers in the healthcare industry.

Health Careers & Teams II
Course Number: 7025  (Sem. 2)  GPA: Yes
Credit: 1
Elective/Required: Elective
Prerequisite: Health Careers & Teams I
Grade Level: 10-12
Course Description: This course presents skills and characteristics expected of healthcare professionals. Students will learn about job seeking skills, legal and ethical concerns, team dynamics, and communication techniques necessary to work and succeed in the healthcare field.
Medical Terminology
Course Number: 7611  (Sem. 1)  Credit: 1  GPA: Yes  
Elective/Required: Elective  Dual Credit WITCC: HSC-114  
Prerequisite: None  
Grade Level: 10-12  
Course Description: This course focuses on medical terminology using an anatomical body system approach. A basic understanding of medical terminology is fundamental to all persons working within the healthcare profession. Correct pronunciation and spelling are necessary when communicating patient care among other professionals of the health care team. This course presents medical terminology as the language of medicine. Students learn spelling, pronunciation and usage, with emphasis on word analysis and construction of definitions. A case study approach focusing on the body systems will assist students to master medical terminology. Students will have an opportunity to complete an interactive patient medical history project.

Issues in Health & Society
Course Number: 7612  (Sem. 2)  Credit: 1  GPA: Yes  
Elective/Required: Elective  Dual Credit WITCC: HSC-111  
Prerequisite: Medical Terminology  
Grade Level: 10-12  
Course Description: This course presents an overview of current health issues, concepts, and theories related to health. It both an overview of areas of conflict in health as well as ways of looking at the conflicts. The purpose of this course is to introduce a number of contemporary topics in order to illustrate how controversies are viewed from a healthcare perspective.

Nurse Aide Theory
Course Number: 7613  (Sem. 1)  Credit: 1  GPA: Yes  
Elective/Required: Elective  Dual Credit WITCC: HSC-173  
Prerequisite: None  
Grade Level: 11-12  
Course Description: This course is designed to provide the student with the fundamentals of patient care in the health care environment. Students will focus on meeting human needs, safety measures, infection control, and physical care. Students will expand their knowledge of tasks, assessments, and observations of patients in the health care environment. Students will develop technical skills specific to complex needs of the patients.

Nurse Aide Clinical
Course Number: 7614  (Sem. 1)  Credit: 1  GPA: Yes  
Elective/Required: Elective  Dual Credit WITCC: HSC-174  
Prerequisite: Nurse Aide Theory  
Grade Level: 11-12  
Course Description: 30 hours of clinical work is required and will be done outside normal class time. Students must submit to a criminal and abuse background check and be cleared before starting clinical experience. Students must have a physical, submit health screening paperwork, and be cleared for clinical. Students may need to consent for drug testing.

Advanced Nurse Aide
Course Number: 7608  (Sem. 2)  Credit: 2  GPA: Yes  
Elective/Required: Elective  Dual Credit WITCC: HSC-178  
Prerequisite: Successful completion of the 75 hour Nurse Aide Course with CNA and B.L.S. Certification  
Grade Level: 11-12  
Course Description: This course is designed as unit of instruction to be given in conjunction with or following the approved 75 hour Nurse Aide Course. The 75 hour Nurse Aide Course meets the OBRA (Nursing Home Reform) requirements for nurse aides who work in long term care. In the advanced course, additional material provides the students with content emphasizing the knowledge, attitude and skills necessary for providing patient care in the acute setting. Advanced Nurse Aides have those advanced skills necessary to work in the acute care setting. Hospital based nursing assistants are vital in providing patient care to acutely ill patients. Students are required to complete thirty hours which is scheduled outside of the normal class time.
Computer Science Essentials - PLTW
Course Number: 900J  
Credit: 2  
Elective/Required: Elective  
Prerequisite: Algebra I recommended  
Grade Level: 9-12  
Course Description: Computer Science Essentials will expose students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. Students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python® to create apps and develop websites, and learn how to make computers work together to put their design into practice. They will apply computational thinking practices, and collaborate as computing professionals do to create products that address topics and problems important to them.

AP Computer Science Principles - PLTW
Course Number: 9418  
Credit: 2  
Elective/Required: Elective  
Prerequisite: Algebra I recommended  
Grade Level: 10-12  
Course Description: AP Computer Science Principles focuses on further developing computational-thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. This course aligns with the AP CS A course. Students are required to take the AP Exam.

Cybersecurity - PLTW
Course Number: 900K  
Credit: 2  
Elective/Required: Elective  
Prerequisite: Configuring Windows and Fundamentals of Network Security OR a combination of any two PLTW Computer Science courses.  
Grade Level: 11-12  
Course Description: Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students’ knowledge of and commitment to ethical computing behavior. It also aims to develop students’ skills to effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

AP Computer Science A - PLTW
Course Number: 9419  
Credit: 2  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 10-12  
Course Description: AP Computer Science A focuses on further developing computational-thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. This course aligns with the AP CS A course. Students are required to take the AP Exam.
Introduction to Construction Shop
Course Number: 9008  
(Sem. 1 and Sem. 2)
Credit: 2  
GPA: Yes
Elective/Required: Elective  
Articulated w/WITCC
Prerequisite: None
Grade Level: 11-12
Course Description: This program stresses personal safety, tool safety, tool maintenance, and hand and power tool identification and proper use. Course also covers the craftsmanship in framing, floors, doors, trim, cabinetry, drywall and finish work. Students learn teamwork and share the responsibility of budgeting, purchasing, and estimating to prepare for careers in contracting. This program provides a direct link to local construction projects.

Basic Framing Techniques
Course Number: 9G18A  
(Sem. 1)
Credit: 2  
GPA: Yes
Elective/Required: Elective  
Dual Credit WITCC: CON-204
Prerequisite: Introduction to Construction Shop
Grade Level: 12  
Taught at WITCC
Course Description: This is a combined lecture and lab course. The content offers a background in woods, fasteners and materials, and introduces blueprint reading. Included in the class will be hands-on experience in the framing of exterior and interior walls, doors and window openings, and interior walls. Also covered in the class is beginning rafter construction and roof framing and finishing.

Intro to Drywall
Course Number: 9GA4B  
(Sem. 2)
Credit: 1  
GPA: Yes
Elective/Required: Elective  
Dual Credit WITCC: CON-209
Prerequisite: Introduction to Construction Shop
Grade Level: 12  
Taught at WITCC
Course Description: This is a combined lecture and lab course that introduces the student to the basic of hanging and taping drywall and its uses in residential construction. It will also provide students the necessary knowledge and skills to insulate a structure.

Wall Coverings and Coatings
Course Number: 9GA6B  
(Sem. 2)
Credit: 1  
GPA: Yes
Elective/Required: Elective  
Dual Credit WITCC: CON-258
Prerequisite: Introduction to Construction Shop
Grade Level: 12  
Taught at WITCC
Course Description: This is a combined lecture and lab course that exposes students to all types of coatings and wall coverings. Topics to be studied include paints, stains, sealers, varnishes, and wallpaper.
### Exploring FCS Pathways

**Course Number:** 4029  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 9-12  
**Course Description:** The goal of this year-long course is to provide students with an introduction to the Family and Consumer Science Career Pathways in the Sioux City Community Schools. The FCS Career Pathways are: Culinary Arts, Early Childhood Education and Human Development, Interior Design, and Fashion. Students will acquire fundamental knowledge and skills necessary for success in any of the career pathways. Exposure to career possibilities in each area will allow students to successfully integrate their own interests into a career plan.

### Culinary Essentials

**Course Number:** 4021  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 10-12  
**Course Description:** The program includes instruction in how to plan and prepare meals, it will give you experience in proper use of equipment and utensils, and background on the nutritional needs and requirements for healthy living. You will also receive education in food preparation; cooking, baking, and sanitation.

### ProStart I

**Course Number:** 4022  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** Culinary Essentials and Food Science Technology or Chemistry  
**Articulated DMACC or WITCC**  
**Grade Level:** 11-12  
**Course Description:** This course provides an overview of the hospitality and food industries as it prepares students for entry level (or above) jobs in the food industry or post-secondary culinary training. Students will learn advanced quantity food preparation techniques, various forms of meal service, production management, and customer relations as they engage in food service.

### ProStart II

**Course Number:** 4023  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** ProStart I  
**Grade Level:** 12  
**Taught at East & North High School**  
**Course Description:** In this course students study all aspects of the food service industry including safety and proficiency in food preparation and storage, equipment use, all cooking methods, service, menu planning and record keeping. Through coursework and lab experience, this course is designed to build fundamental skills that will prepare students for a successful career in the culinary industry. Students work in teams and take on the roles of industry professionals. All students will take the end-of-course assessment for ProStart certification. To allow students time at the workplace site, Internship course #X065 is recommended.
Internship  
Course Number: X065  (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective  
Prerequisite: Currently enrolled in ProStart II and with teacher approval  
Grade Level: 11-12  
Course Description: ProStart students learn how to be an industry professional through hands-on work under the direction of a mentor. Mentors help students make the connection between present performance and careers. During mentored work experiences, ProStart students master the skills industry experts identified as critical to success, such as: customer service, cost control, culinary techniques, and marketing. Students also learn the importance of arriving on time prepared for work, teamwork and accountability. ProStart and ServSafe Certification available.

Individuals & Families  
Course Number: 4000  (Sem. 1 or Sem. 2)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 9-12  
Course Description: This course explores the influences of society on individuals and families. It is designed to assist students to be self-sufficient in all areas of health including: Cardio Pulmonary Resuscitation (CPR), career and life-management, and the development of personal and professional relationships. This class will also examine the decision-making process and communication skills. Students will study nutrition related topics, the effects of substances on health, the warning signs of unhealthy relationships, the importance of abstinence, the risks of early sexual activity, and the risks of infection and disease on overall health.

EARLY CHILDHOOD EDUCATION (ECE) / CHILD DEVELOPMENT ASSOCIATE (CDA)  

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<td>4620 Child Health, Safety, and Nutrition</td>
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<td>X081 Internship</td>
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<th>Year 3</th>
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<td>4622 Early Childhood Guidance</td>
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<td>X082 Internship</td>
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<tr>
<td>Course Number: 4029  (Sem. 1 and Sem. 2)</td>
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<td>Credit: 2</td>
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Elective/Required: Elective  
Prerequisite: None  
Grade Level: 9-11  
Course Description: The goal of this year-long course is to provide students with an introduction to the Family and Consumer Science Career Pathways in the Sioux City Community Schools. The FCS Career Pathways are: Culinary Arts, Early Childhood Education and Human Development, Interior Design, and Fashion. Students will acquire fundamental knowledge and skills necessary for success in any of the career pathways. Exposure to career possibilities in each area will allow students to successfully integrate their own interests into a career plan.

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<thead>
<tr>
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<tr>
<td>Course Number: 4620  (Sem. 2)</td>
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<td>Credit: 1</td>
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Elective/Required: Elective  
Prerequisite: None  
Grade Level: 11-12  
Taught at Clark ECC  
Course Description: This course focuses on evidence-based concepts in the fields of health, safety and nutrition and their relationship to the growth and development of the young child ages birth to eight. It blends current theory with problem-solving, practical applications and assessments. Course content includes collaboration with families and assesses the role of culture, language and ability on health, safety and nutrition decisions in early childhood settings.
Internship
Course Number: X081 (Sem. 1 and Sem. 2)
Credits: 2
GPA: No
Elective/Required: Elective
Taught at Clark ECC
Prerequisite: Currently enrolled in ECE coursework
Grade Level: 11-12
Course Description: The ECE coursework is targeted at providing high quality early educators. This internship will allow students time to apply knowledge and gain workplace experience. Students interested in pursuing the CDA certificate can accumulate hours toward the required 480 hours for certification.

Early Childhood Curriculum I
Course Number: 4621 (Sem. 1)
Credits: 1
GPA: Yes
Elective/Required: Elective
Dual Credit WITCC: ECE-158
Prerequisite: None
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This course focuses on the development, implementation and assessment of appropriate environments and curricula for young children ages three through eight years old. Students prepare to utilize evidence-based, developmentally appropriate practices in the context of children’s family, culture, language and abilities. Emphasis is on understanding children’s developmental stages and developing appropriate learning opportunities, interactions and environments to support each child in the following areas: dramatic play, art, music, fine and gross motor play.

Early Childhood Guidance
Course Number: 4622 (Sem. 2)
Credits: 1
GPA: Yes
Elective/Required: Elective
Dual Credit WITCC: ECE-243
Prerequisite: None
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This course focuses on developmentally appropriate, evidence based approaches and positive guidance strategies for supporting the development of each child. It emphasizes supportive interactions and developmentally appropriate environments as well as the use of assessment to analyze and guide behaviors. Students study the impact of family and each child’s culture, language and ability on child guidance.

Internship
Course Number: X082 (Sem. 1 and Sem. 2)
Credits: 2
GPA: No
Elective/Required: Elective
Taught at Clark ECC
Prerequisite: Currently enrolled in ECE coursework
Grade Level: 11-12
Course Description: The ECE coursework is targeted at providing high quality early educators. This internship will allow students time to apply knowledge and gain workplace experience. Students interested in pursuing the CDA certificate can accumulate hours toward the required 480 hours for certification.

EDUCATION
Year 3
8600 Foundations of Education 1
8653 Human Relations for the Classroom Teacher 1
Year 4
6610 Coaching Ethics, Techniques & Theory .5
6611 Athletic Development & Human Growth .5
6612 Body Structure and Function .5
6613 Athletic Injury Prevention .5

Foundations of Education
Course Number: 8600 (Sem. 1)
Credits: 1
GPA: Yes
Elective/Required: Elective
Dual Credit WITCC: EDU-210
Prerequisite: None
Grade Level: 11-12
Proficiency Required: ISASP or ACT, Found. of Education 3.00
Course Description: This course is an introduction to professional education providing a historical and philosophical background from which the student can examine his or her own commitment to education. Challenges and issues in education today will be discussed in the context of school organization, funding, curriculum, professionalism, legal issues, and effective teacher characteristics.

Human Relations for the Classroom Teacher
Course Number: 8653 (Sem. 2)
Credits: 1
GPA: Yes
Elective/Required: Elective
Dual Credit WITCC: EDU-220
Prerequisite: None
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This course includes interpersonal and intergroup relations and contributes to the development of sensitivity to and the understanding of the values, beliefs, lifestyles and attitudes of individuals and the diverse groups found in a pluralistic society and within current education settings. This is a required component of IA Teacher Licensure.
Coaching, Ethics, Techniques & Theory
Course Number: 6610 (Sem. 1)
Credits: .5
Elective/Required: Elective
GPA: Yes
Prerequisite: In conjunction with Athletic Development & Human Growth
Grade Level: 11-12
Course Description: This course studies the theory and techniques of coaching the interscholastic athlete and team, as well as the related responsibilities, duties, and problems. This is one of four courses leading to the coaching authorization issued by the IA Dept. of Education as a head coach or assistant coach of interscholastic athletics. Completion of this course after July 2000 fulfills the Iowa State coaching endorsement ethics requirement.

Athletic Development & Human Growth
Course Number: 6611 (Sem. 1)
Credits: .5
Elective/Required: Elective
GPA: Yes
Prerequisite: In conjunction with Coaching, Ethics, Techniques & Theory
Grade Level: 11-12
Course Description: 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.

Body Structure and Function
Course Number: 6612 (Sem. 2)
Credits: .5
Elective/Required: Elective
GPA: Yes
Prerequisite: In conjunction with Athletic Injury Prevention
Grade Level: 11-12
Course Description: 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.

Athletic Injury Prevention
Course Number: 6613 (Sem. 2)
Credits: .5
Elective/Required: Elective
GPA: Yes
Prerequisite: In conjunction with Body Structure & Function
Grade Level: 11-12
Course Description: 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.

ENGINEERING

Year 1
9011 Engineering Essentials - PLTW 2

Year 2 (options)
9011 Engineering Essentials - PLTW 2
9656 Principles of Engineering - PLTW 2

Year 3 & 4 (options)
9011 Engineering Essentials - PLTW 2
9656 Principles of Engineering - PLTW 2
9029 Civil Engineering & Architecture - PLTW 2
9660 Digital Electronics - PLTW 2
9418 AP Computer Science Principles - PLTW 2

Year 4
9028 Engineering Design & Development - PLTW 2

Engineering Essentials - PLTW
Course Number: 9011 (Sem. 1 and Sem. 2)
Credits: 2
Elective/Required: Elective
GPA: Yes
Prerequisite: Algebra or currently enrolled in Algebra
Grade Level: 9-12
Course Description: This introductory course within the PLTW Program of Study offers a multidisciplinary approach to teaching and learning foundational concepts of engineering practice. The course will provide students opportunities to explore the breadth of engineering career opportunities and experiences, while providing opportunities to solve engaging and challenging real-world problems through the study of engineering essentials. The course is intended to be a high school student’s first exposure to PLTW Engineering.
**Principles of Engineering - PLTW**  
*Course Number: 9656 (Sem. 1 and Sem. 2)*  
*Credits: 2*  
*GPA: Yes*  
*Elective/Required: Elective*  
*Dual Credit WITCC: EGT-410*  
*Prerequisite: Geometry or currently enrolled*  
*Grade Level: 10-12*  
*Course Description:* This course will assist students with an understanding of the field of engineering and engineering technology. By exploring various technology systems and manufacturing processes, students learn how engineers and technicians use math, science and technology. Drafting and design are primary aspects of the course. The course also includes concerns about social and political consequences of technological change.

**Civil Engineering & Architecture - PLTW**  
*Course Number: 9029 (Sem. 1 and Sem. 2)*  
*Credits: 2*  
*GPA: Yes*  
*Elective/Required: Elective*  
*Prerequisite: Introduction to Engineering Design or Principles of Engineering; Geometry or currently enrolled*  
*Grade Level: 10-12*  
*Course Description:* This is a Project Lead the Way course. This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities.

**Digital Electronics - PLTW**  
*Course Number: 9660 (Sem. 1 and Sem. 2)*  
*Credits: 2*  
*GPA: Yes*  
*Elective/Required: Elective*  
*Dual Credit WITCC: EGT-420*  
*Prerequisite: Introduction to Engineering Design or Principles of Engineering*  
*Grade Level: 10-12*  
*Course Description:* This is a combined lecture and lab course which studies the numbering systems used in digital circuits, including Boolean algebra. This will include circuits such as basic gates, counters, shift registers, and memories as they apply to communications and computer systems.

**AP Computer Science Principles - PLTW**  
*Course Number: 9418 (Sem. 1 and Sem. 2)*  
*Credits: 2*  
*GPA: Yes*  
*Elective/Required: Elective*  
*Weighted*  
*Prerequisite: Algebra I recommended*  
*Grade Level: 10-12*  
*Course Description:* Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP’s offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment. **Students will be required to take the AP Exam.**

**Engineering Design & Development - PLTW**  
*Course Number: 9028 (Sem. 1 and Sem. 2)*  
*Credits: 2*  
*GPA: Yes*  
*Elective/Required: Elective*  
*Prerequisite: Introduction to Engineering Design, Principles of Engineering, and Digital Electronics or consent of instructor*  
*Grade Level: 11-12*  
*Course Description:* This is the capstone course for Project Lead the Way. This is an engineering research course in which students work in teams to research, design, and construct a solution to an open-ended engineering problem. Students apply principles developed in the three preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year.
Entrepreneurship & Small Business

Foundation Course
- B019 Business 101 (Sem. 1 and Sem. 2) 2 Credit GPA: Yes
  Elective/Required: Elective
  Prerequisite: None
  Grade Level: 9-10
  Course Description: This year-long course is designed to introduce students to the pathways and programs of study available in Business Education in the Sioux City Community Schools. The content of this course provides a broad overview about several areas of the business world: entrepreneurship, accounting/finance, marketing, management, employability skills, and global business. Students will be able to learn about and explore the industry of business through projects and hands-on activities. After completing this course, the student will be able to determine which area they would like to pursue within the field of business.

Specialization Courses
- B001 Accounting I (Sem. 1 and Sem. 2) 2
- B006 Business & Personal Law (Sem. 1 or Sem. 2) 1
- B007 Sales & Marketing (Sem. 1 or Sem. 2) 1
- B018 Business Entrepreneurship (Sem. 1 and Sem. 2) 2
- B600 Introduction to Business (Sem. 1 or Sem. 2) 1
- B601 Principles of Management (Sem. 1 or Sem. 2) 1
- B602 Human Resource Management (Sem. 1 or Sem. 2) 1
- B605 Principles of Marketing (Sem. 1 or Sem. 2) 1

Business 101
Course Number: B019 (Sem. 1 and Sem. 2) 2
Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-10
Course Description: This year-long course is designed to introduce students to the pathways and programs of study available in Business Education in the Sioux City Community Schools. The content of this course provides a broad overview about several areas of the business world: entrepreneurship, accounting/finance, marketing, management, employability skills, and global business. Students will be able to learn about and explore the industry of business through projects and hands-on activities. After completing this course, the student will be able to determine which area they would like to pursue within the field of business.

Microsoft Office Suite
Course Number: B029 (Sem. 1 and Sem. 2) 2
Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: Students will learn how to work through a Windows environment to access and utilize Microsoft Office Suite. Introductory and advanced features are taught in Microsoft Word, Microsoft Excel spreadsheet application, PowerPoint presentation software and an introduction to Access database. They will obtain skills used in the business world. Industry certification available.

Accounting I
Course Number: B001 (Sem. 1 and Sem. 2)
Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: Accounting I is a course designed to teach the recording and analyzing of financial records of a sole proprietorship. It includes, through both manual and computer accounting technology, how to keep financial records, summarizing for convenient interpretation, and the ability to determine how to improve a financial situation. The course develops an understanding of the steps of the accounting cycle for a sole proprietorship. It involves practical application of math skills needed in business, basic adding, subtraction, multiplication and division, as well as formulas and functions for spreadsheet analysis. The course also examines the managerial use of accounting information, explores career choices in the field of accounting, and looks into current business ethics. To receive WITCC Articulated credit, course #B020, Accounting II must also be completed.

Business & Personal Law
Course Number: B006 (Sem. 1 or Sem. 2) 1
Credit: 1 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: This program gives background information in law as it relates to the average individual and problems they may encounter with the law and their consumer rights. It is also related to the business aspect regarding contract, criminal, and tort law. This is helpful to anyone for personal use, but also for background knowledge if you intend a career from court reporters to paralegals, lawyers, legal secretaries or law enforcement personnel.

Sales & Marketing
Course Number: B007 (Sem. 1 or Sem. 2) 1
Credit: 1 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: Students will learn sales and marketing strategies used in the business world. This class incorporates advertising techniques and their effect on sales and uses PowerPoint software on computers to make presentations on business products or services. Projects are a big part of the course. This course serves as a foundation for possible career paths in sales, marketing, or general business.
Business Entrepreneurship
Course Number: B018  
Credit: 2  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 11-12  
Course Description: Students gain an understanding of the marketing and management principles necessary to start and operate their own business. They will develop an awareness of the opportunities for small business ownership and the planning skills needed to open a small business. Students will become aware of the traits and characteristics of successful entrepreneurs and develop an entrepreneurial mindset. Students gain an awareness of the research, planning and the regulations that effect small business and the means of financing a business. They will also understand the specific strategies for business management and marketing and the economic role of the entrepreneur in the market system. This year-long course utilizes the IceHouse curriculum from ELI (The Entrepreneurial Initiative) and the BizInnovator curriculum from the University of Iowa. Students have the potential to earn 3 credits from the University of Iowa.

Introduction to Business
Course Number: B600  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 11-12  
Proficiency Required: ISASP or ACT  
Course Description: This course provides a broad overview of business including internal and external functions. Topics include economics, marketing, entrepreneurship, and management as well as related domestic and international business issues.

Human Resource Management
Course Number: B602  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 10-12  
Proficiency Required: ISASP or ACT  
Course Description: This course is a combination of theoretical and practical approaches to human resource management. Topics include job design, employee selection, employee development, employee appraisal, and employee termination. Additionally, it explores federal statutes relating to EEO, Affirmative Action, OSHA, and labor unions and also addresses, employee compensation and fringe benefit packages.

Principles of Marketing
Course Number: B605  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 10-12  
Proficiency Required: ISASP or ACT  
Course Description: This course covers consumer and organizational buying behavior, targeting market opportunities, developing and managing new products, marketing channels, logistics, and strategic market planning and implementation. This course examines marketing from the consumer’s and organizational perspective.

Principles of Management
Course Number: B601  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 11-12  
Proficiency Required: ISASP or ACT  
Course Description: This course introduces students to the role of planning, organizing, staffing, directing, and controlling in formal and informal organizations of all sizes. This course presents theoretical bases and real world examples of implementation.
## Exploring FCS Pathways

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Credits</th>
<th>Elective/Required</th>
<th>Prerequisite</th>
<th>Grade Level</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4029</td>
<td>2</td>
<td>Elective</td>
<td>None</td>
<td>9-12</td>
<td>The goal of this year-long course is to provide students with an introduction to the Family and Consumer Science Career Pathways in the Sioux City Community Schools. The FCS Career Pathways are: Culinary Arts, Early Childhood Education and Human Development, Interior Design, and Fashion. Students will acquire fundamental knowledge and skills necessary for success in any of the career pathways. Exposure to career possibilities in each area will allow students to successfully integrate their own interests into a career plan.</td>
</tr>
</tbody>
</table>

## Sewing Technology Basics

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Credits</th>
<th>Elective/Required</th>
<th>Prerequisite</th>
<th>Grade Level</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4015</td>
<td>1</td>
<td>Elective</td>
<td>None</td>
<td>9-12</td>
<td>This course is designed to provide students with a foundation of basic sewing techniques such as use of equipment, patterns, preparation and basic sewing skills. Students will construct at least one garment for themselves. This course is a prerequisite for the Fashion Design Pathway.</td>
</tr>
</tbody>
</table>

## Fashion Analysis

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Credits</th>
<th>Elective/Required</th>
<th>Prerequisite</th>
<th>Grade Level</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4030</td>
<td>2</td>
<td>Elective</td>
<td>Sewing Technology Basics and Design Studio</td>
<td>10-12</td>
<td>The purpose of this course is to introduce students to various aspects of the fashion design and merchandising industry. Students integrate knowledge, skills, and practice to evaluate potential career opportunities. Emphasis is placed on an introduction to fashion, design, sourcing, costing and marketing. Students will also study designers, historical and current trends, fashion vocabulary, styles in relation to various body types and personalities. The program is enriched by a fashion show created and produced by the students.</td>
</tr>
</tbody>
</table>
Business 101
Course Number: B019  (Sem. 1 and Sem. 2)  GPA: Yes
Credit: 2
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: This year-long course is designed to introduce students to the pathways and programs of study available in Business Education in the Sioux City Community Schools. The content of this course provides a broad overview about several areas of the business world; entrepreneurship, accounting/finance, marketing, management, employability skills, and global business. Students will be able to learn about and explore the industry of business through projects and hands-on activities. After completing this course, the student will be able to determine which area they would like to pursue within the field of business.

Accounting I
Course Number: B001  (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: Accounting I is a course designed to teach the recording and analyzing of financial records of a sole proprietorship. It includes, through both manual and computer accounting technology, how to keep financial records, summarizing for convenient interpretation, and the ability to determine how to improve a financial situation. The course develops an understanding of the steps of the accounting cycle for a sole proprietorship. It involves practical application of math skills needed in business, basic adding, subtraction, multiplication and division, as well as formulas and functions for spreadsheet analysis. The course also examines the managerial use of accounting information, explores career choices in the field of accounting, and looks into current business ethics. To receive WITCC Articulated credit, course #B001, Accounting I must also be completed.

Accounting II
Course Number: B020  (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Elective
GPA: Yes
Articulation: WITCC
Prerequisite: Successful completion of Accounting I
Grade Level: 10-12
Course Description: Accounting II is an advanced accounting course designed to teach recording and analyzing of financial records of a corporation. It includes completing the steps of the accounting cycle for a corporation and an in-depth study of various cash accounts, accounts receivable merchandise inventory, and plant asset depreciation. Special emphasis will be placed on developing ways of understanding business information by analyzing and interpreting financial statements, how to summarize for interpretations, and how to analyze to be able to give steps necessary to improve a financial situation. The course expands the utilization of computerized accounting for financial records, and continues to stress good business ethics. It emphasizes basic math and problem-solving skills, and analysis and interpretation of data. To receive WITCC Articulated credit, course #B001, Accounting I must also be completed.

Accounting III
Course Number: B050  (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Elective
GPA: Yes
Articulation: WITCC
Prerequisite: Successful completion of Accounting II
Grade Level: 11-12
Course Description: The students will work on an independent basis and will build upon the concepts learned in Accounting I and II. It is an excellent way for students who are truly interested in the accounting profession to broaden their knowledge and prepare for future accounting courses. It includes learning accounting procedures for partnerships not-for-profit organizations, and learning about special accounting systems such as cost, departmental, branch, voucher system and manufacturing accounting.

Introduction to Business
Course Number: B600  (Sem. 1)
Credit: 1
Elective/Required: Elective
GPA: Yes
Dual Credit WITCC: BUS-102
Prerequisite: None
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This course provides a broad overview of business including internal and external functions. Topics include economics, marketing, entrepreneurship, and management as well as related domestic and international business issues.
**Principles of Management**  
**Course Number:** B601  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 11-12  
**Proficiency Required:** ISASP or ACT  
**Course Description:** This course introduces students to the role of planning, organizing, staffing, directing, and controlling in formal and informal organizations of all sizes. This course presents theoretical bases and real world examples of implementation.

**Human Resource Management**  
**Course Number:** B602  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 10-12  
**Proficiency Required:** ISASP or ACT  
**Course Description:** This course is a combination of theoretical and practical approaches to human resource management. Topics include job design, employee selection, employee development, employee appraisal, and employee termination. Additionally, it explores federal statutes relating to EEO, Affirmative Action, OSHA, and labor unions and also addresses, employee compensation and fringe benefit packages.

**Principles of Marketing**  
**Course Number:** B605  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 10-12  
**Proficiency Required:** ISASP or ACT  
**Course Description:** This course covers consumer and organizational buying behavior, targeting market opportunities, developing and managing new products, marketing channels, logistics, and strategic market planning and implementation. This course examines marketing from the consumer’s and organizational perspective.

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**FIRE SCIENCE**

**Year 3**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>96E0</td>
<td>Principles of Emergency Services</td>
<td>1</td>
</tr>
<tr>
<td>96E1</td>
<td>Fire Protection System</td>
<td>1</td>
</tr>
</tbody>
</table>

**Year 4**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9G88A</td>
<td>Essentials of Firefighter I</td>
<td>1</td>
</tr>
<tr>
<td>96E5</td>
<td>Hazardous Materials: Operations Level</td>
<td>1</td>
</tr>
<tr>
<td>7635</td>
<td>Emergency Fire Responder</td>
<td>1</td>
</tr>
</tbody>
</table>

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**Principles of Emergency Services**  
**Course Number:** 96E0  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Course Description:** This course provides an overview to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection/services; fire loss and analysis; organization and function of public and private protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; and introduction to fire strategy and tactics.

**Fire Protection Systems**  
**Course Number:** 96E1  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Course Description:** This course is an examination of devices and systems that support the fire service in the detection and suppression of fire.

**Essentials of Firefighter I**  
**Course Number:** 9688  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 11-12  
**Course Description:** This course provides basic fire training relating to the NFPA 1001 standard for Fire Fighter Professional Qualifications. It reflects the most current standards as adopted by the Fire Service Training Bureau and can prepare students to take the written Fire Fighter One exam and the Practical Skills Performance exam.
Hazardous Materials: Operations Level
Course Number: 96E5 (Sem. 1)
Credit: 1
Elective/Required: Elective
GPA: Yes
Prerequisite: None
Grade Level: 12
Course Description: This course focuses on hazardous materials operations and follows the requirements of NGPA 472 for the standard for competence of responders to hazardous materials/weapons of mass destruction incidents.

Emergency Fire Responder
Course Number: 7635 (Sem. 2)
Credit: 1
Elective/Required: Elective
GPA: Yes
Prerequisite: None
Grade Level: 12
Proficiency Required: ISASP or ACT
Course Description: This course emphasizes the development of student skills in emergency medical care procedures. Topics include life threatening emergencies, injuries to various body parts, techniques of moving patients, CPR-BLS, and the safety and well-being of the Emergency Medical Responder. Successful completion of course requirements allows students to write national certification examination. AHA BLS Healthcare Provider CPR is provided during this course.

Business 101
Course Number: B019 (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Elective
GPA: Yes
Prerequisite: None
Grade Level: 9-12
Course Description: This year-long course is designed to introduce students to the pathways and programs of study available in Business Education in the Sioux City Community Schools. The content of this course provides a broad overview about several areas of the business world; entrepreneurship, accounting/finance, marketing, management, employability skills, and global business. Students will be able to learn about and explore the industry of business through projects and hands-on activities. After completing this course, the student will be able to determine which area they would like to pursue within the field of business.

Digital Imaging
Course Number: B620 (Sem. 1)
Credit: 1
Elective/Required: Elective
GPA: Yes
Prerequisite: None
Grade Level: 9-12
Course Description: This course covers an introduction to the Mac OS interface and associated hardware. It also covers the Adobe Photoshop software, which is used to manipulate images used in digital and printed media. Topics include software interface, tools, retouching, collage, scanning, keyboard shortcuts, corrective filters and techniques, color correction and automation.
**Vector Drawing**

**Course Number:** B615  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 9-12  
**Course Description:** This course is an introduction to vector drawing tools used to create computer graphics in digital design. Students examine the interface to draw shapes and Bezier curves, and brushes to draw simple to complex shapes with layers. Advanced techniques using masks, meshes, blends and other drawing tools are explored. An emphasis is placed on key commands to facilitate production and precise drawing skills.

**Digital Imaging II**

**Course Number:** B621  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 10-12  
**Course Description:** This course provides students with advanced techniques in using software to manipulate images for digital and printed media. Topics include automation techniques, speed, resolution, format and corrective filters. Students are introduced to common digital photography problems, color correcting, retouching and sharpening critical area of a photo. It approaches using digital imaging software as an art form.

**Social Media Explored**

**Course Number:** B622  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 10-12  
**Course Description:** This course explores the history and future of social media in relation to marketing, branding and community building. Course content includes discussion of audience engagement, political and social activism, media, advertising, and marketing. Current social media tools are used within this course to enhance understanding of the course material.

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**HOME BUILDING**

**Year 1**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>9000</td>
<td>Industrial Arts Technology</td>
<td>2</td>
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</tbody>
</table>

**Year 2**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>9004</td>
<td>Woodworking Technology</td>
<td>2</td>
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</tbody>
</table>

**Year 3**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>9008</td>
<td>Introduction to Construction Shop</td>
<td>2</td>
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</tbody>
</table>

**Year 4**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>9G18A</td>
<td>Basic Framing Techniques</td>
<td>2</td>
</tr>
<tr>
<td>9GA4B</td>
<td>Intro to Drywall</td>
<td>1</td>
</tr>
<tr>
<td>9GA6B</td>
<td>Wall Coverings and Coatings</td>
<td>1</td>
</tr>
</tbody>
</table>

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**Industrial Arts Technology**

**Course Number:** 9000  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 9-12  
**Course Description:** This course is designed to introduce CTE courses in the 21st century. Students will receive coursework in several areas of the industrial world (safety, engineering, manufacturing, power, construction). Time will be spent both in the classroom and hands on laboratory settings. After completing this course, the student will have a broader view of which area they would like to pursue in the future of CTE.

**Woodworking Technology**

**Course Number:** 9004  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 10-12  
**Course Description:** This course includes the use of power woodworking machines, table saw, radial arm saw, band saw, jointer, surface sander (s), lathe, and others. Students will learn about different kinds of woods, wood products, best uses of wood, and the selection/application of wood finishes. The operations listed are incorporated into the construction of various construction projects. This course is a prerequisite for entry into higher-level vocational carpentry courses.
Introduction to Construction Shop
Course Number: 9008 (Sem. 1 and Sem. 2)
Credit: 2 GPA: Yes
Elective/Required: Elective Articulated w/WITCC
Prerequisite: None
Grade Level: 11-12
Course Description: This program stresses personal safety, tool safety, tool maintenance, and hand and power tool identification and proper use. Course also covers the craftsmanship in framing, floors, doors, trim, cabinetry, drywall and finish work. Students learn teamwork and share the responsibility of budgeting, purchasing, and estimating to prepare for careers in contracting. This program provides a direct link to local construction projects.

Basic Framing Techniques
Course Number: 9G18A (Sem. 1)
Credit: 2 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: CON-204
Prerequisite: Introduction to Construction Shop
Grade Level: 12 Taught at WITCC
Course Description: This is a combined lecture and lab course. The content offers a background in woods, fasteners and materials, and introduces blueprint reading. Included in the class will be hands-on experience in the framing of exterior and interior walls, doors and window openings, and interior walls. Also covered in the class is beginning rafter construction and roof framing and finishing.

Intro to Drywall
Course Number: 9GA4B (Sem. 2)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: CON-209
Prerequisite: Introduction to Construction Shop
Grade Level: 12 Taught at WITCC
Course Description: This is a combined lecture and lab course that introduces the student to the basic of hanging and taping drywall and its uses in residential construction. It will also provide students the necessary knowledge and skills to insulate a structure.

Wall Coverings and Coatings
Course Number: 9GA6B (Sem. 2)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: CON-258
Prerequisite: Introduction to Construction Shop
Grade Level: 12 Taught at WITCC
Course Description: This is a combined lecture and lab course that exposes students to all types of coatings and wall coverings. Topics to be studied include paints, stains, sealers, varnishes, and wallpaper.

INFORMATION TECHNOLOGY / NETWORK SYSTEMS

Specialization Courses
9612 IT Essentials I: PC Hardware & Software 1
X066 Internship - Semester 1 1
9622 IT Essentials Advanced: PC Hardware & Software 1
X067 Internship - Semester 2 1

Capstone Courses
9695 Configuring Windows 1
9696 Fundamentals of Network Security 1
900K Cybersecurity - PLTW 2

IT Essentials I: PC Hardware & Software
Course Number: 9612 (Sem. 1)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: NET-161
Prerequisite: None
Grade Level: 10-12
Course Description: This course covers the fundamentals of computer hardware and software. Fundamentals covered include computer technology, networking, security and communication skills. This is a combined lecture and lab course designed for students seeking career orientated, entry-level hardware and software positions. This course also prepares students for the Comptia A+ certification exams.

IT Internship - Sem. 1
Course Number: X066 (Sem. 1)
Credit: 1 GPA: No
Elective/Required: Elective Pass / Fail Grading
Prerequisite: Must be enrolled in IT Essentials I
Grade Level: 10-12
Course Description: This internship is required for each semester that a student is enrolled in IT Essentials I, IT Essentials Advanced, Workstation, or Wireless Networks. Travel to other buildings in the district may be required.
IT Essentials Advanced: PC Hardware & Software
Course Number: 9622  (Sem. 2)
Credit: 1  GPA: Yes
Elective/Required: Elective  Dual Credit WITCC: NET-162
Prerequisite: IT Essentials I
Grade Level: 10-12
Course Description: This course covers advanced computer hardware and software concepts and builds on the fundamental skills covered in IT Essentials I with more comprehensive labs and troubleshooting scenarios. It is a combined lecture and lab designed for students seeking career-orientated, entry-level hardware and software positions and prepares students for the Comptia A+ certification exams.

IT Internship - Sem. 2
Course Number: X067  (Sem. 2)
Credit: 1  GPA: No
Elective/Required: Elective  Pass / Fail Grading
Prerequisite: Must be enrolled in IT Essentials Advanced
Grade Level: 10-12
Course Description: This internship is required for each semester that a student is enrolled in IT Essentials I and IT Essentials Advanced. Travel to other buildings in the district may be required.

Fundamentals of Network Security
Course Number: 9696  (Sem. 1)
Credit: 1  GPA: Yes
Elective/Required: Elective  Dual Credit WITCC: NET-612
Prerequisite: IT Essentials & IT Essentials Advanced
Grade Level: 11-12
Course Description: This course is a combined lab and lecture course designed to provide students with a fundamental understanding of network security principles and implementation. Students learn the technologies and principles involved in creating a secure computer networking environment. Students learn about authentication, types of attacks and malicious code, threats and countermeasures for e-mail, web applications, remote access, file and print services, intrusion detection systems, firewalls, physical security concepts, security policies, disaster recovery, and computer forensics. Students have a variety of hands-on and case project assignments that reinforce the concepts read in each chapter.

Configuring Windows
Course Number: 9695  (Sem. 2)
Credit: 1  GPA: Yes
Elective/Required: Elective  Dual Credit WITCC: NET-170
Prerequisite: Fundamentals of Network Security
Grade Level: 11-12
Course Description: This course provides students with the skills necessary to master configuration and support for Windows 8 computers, devices, users and associated network and security resources. Emphasis is placed on the client-side of networking.

Cybersecurity - PLTW
Course Number: 900K  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: Configuring Windows and Fundamentals of Network Security OR a combination of any two PLTW Computer Science courses.
Grade Level: 11-12
Course Description: Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students’ knowledge of and commitment to ethical computing behavior. It also aims to develop students’ skills to effectively contribute to communities with a dependable cyberinfrastructure that moves and processes information safely.
**INTERIOR DESIGN**

**Year 1**
- Exploring FCS Pathways 4029 2

**Year 2**
- Sewing Technology Basics 4015 1
- Design Studio 4016 1

**Year 3**
- Digital Photography 9658 1
- Interior Design Studio 4027 1

**Year 4**
- Applied Sewing Technology & Textiles 4024 2

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**Exploring FCS Pathways**

**Course Number:** 4029  
(Sem. 1 and Sem. 2)  
**Credit:** 2  
**Elective/Required:** Elective  
**GPA:** Yes  
**Prerequisite:** None  
**Grade Level:** 9-12  
**Course Description:** The goal of this year-long course is to provide students with an introduction to the Family and Consumer Science Career Pathways in the Sioux City Community Schools. The FCS Career Pathways are: Culinary Arts, Early Childhood Education and Human Development, Interior Design, and Fashion. Students will acquire fundamental knowledge and skills necessary for success in any of the career pathways. Exposure to career possibilities in each area will allow students to successfully integrate their own interests into a career plan.

**Sewing Technology Basics**

**Course Number:** 4015  
(Sem. 1)  
**Credit:** 1  
**Elective/Required:** Elective  
**GPA:** Yes  
**Prerequisite:** None  
**Grade Level:** 9-12  
**Course Description:** This course is designed to provide students with a foundation of basic sewing techniques such as use of equipment, patterns, preparation and basic sewing skills. Students will construct at least one garment for themselves.

**Design Studio**

**Course Number:** 4016  
(Sem. 2)  
**Credit:** 1  
**Elective/Required:** Elective  
**GPA:** Yes  
**Prerequisite:** None  
**Grade Level:** 9-12  
**Course Description:** This course is the foundation for students considering careers in interior and fashion design. It is a basic foundation course focusing on the element and principles of design, aesthetic awareness, problem solving and developing observation and technical skills.

**Digital Photography**

**Course Number:** 9658  
(Sem. 1)  
**Credit:** 1  
**Elective/Required:** Elective  
**GPA:** Yes  
**Prerequisite:** None  
**Grade Level:** 10-12  
**Course Description:** This course introduces students to the aspects of a career in photography. Students will take photographs with breadth and sequencing. Students study and practice the varied artistic applications of digital images. Students will manipulate photographs to enhance images with computer software. Students will conclude the course with a portfolio of photographs in digital and print forms.

**Interior Design Studio**

**Course Number:** 4027  
(Sem. 2)  
**Credit:** 1  
**Elective/Required:** Elective  
**GPA:** Yes  
**Prerequisite:** Design Studio  
**Grade Level:** 10-12  
**Course Description:** Having completed Design Studio, students will continue to further research design concepts common to interior design. Students will learn about different housing styles, floor plans, furniture arrangements, color schemes, and accessories used in the home.

**Applied Sewing Technology & Textiles**

**Course Number:** 4024  
(Sem. 1 and Sem. 2)  
**Credit:** 2  
**Elective/Required:** Elective  
**GPA:** Yes  
**Prerequisite:** Sewing Technology Basics  
**Grade Level:** 11-12  
**Course Description:** This is an advanced course in sewing construction and textiles. You will explore the sewing machine, patterns, fabric selection, preparation, care and basic sewing construction skills. Students are encouraged to develop advanced skills through sewing projects and garment construction.
MANUFACTURING

Year 1 (options)
9000 Industrial Arts Technology 2
9655 Introduction to Engineering Design - PLTW 2

Year 2 (options)
9022 Power Mechanics 2
9656 Principles of Engineering - PLTW 2

Year 3
9GB5A Manufacturing Processes 1
9GB6A Introduction to CAD/CAM 1
9GC0B Virtual Reality for Manufacturing 4

Year 4
9GC1A Introduction to Automation 4
9GB7B Manufacturing Design 2

Industrial Arts Technology
Course Number: 9000 (Sem. 1 and Sem. 2)
Credit: 2
GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: This course is designed to introduce CTE courses in the 21st century. Students will receive coursework in several areas of the industrial world (safety, engineering, manufacturing, power, construction). Time will be spent both in the classroom and hands on laboratory settings. After completing this course, the student will have a broader view of which area they would like to pursue in the future of CTE.

Introduction to Engineering Design - PLTW
Course Number: 9655 (Sem. 1 and Sem. 2)
Credit: 2
GPA: Yes
Elective/Required: Elective
Prerequisite: Algebra or currently enrolled in Algebra
Grade Level: 9-12
Course Description: This course is an introduction to the elements of Engineering Design. Students will learn the history of design, design process, sketching and visualization, geometric relationships, and modeling. Elements of manufacturing production, marketing, analysis, and quality control will also be studied. Students will also learn presentation techniques and develop a portfolio.

Power Mechanics
Course Number: 9022 (Sem. 1 and Sem. 2)
Credit: 2
GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Taught at Harry Hopkins Center
Course Description: This is a two-semester class that is very beneficial to students exploring any or all Mechanical Career Clusters. This is a very hands-on class with auto mechanics being the main focus of the course. Students will use an online textbook for course content and testing. This information will be supplemented with instructor lectures, videos and live lab procedures. The students are encouraged to furnish vehicles for repairs at the appropriate times. This is not mandatory as there will be vehicles available for live lab exercises. Some of the areas of study will include; automotive maintenance, introduction to brakes, steering and suspension and basic electrical.

Principles of Engineering - PLTW
Course Number: 9656 (Sem. 1 and Sem. 2)
Credit: 2
GPA: Yes
Elective/Required: Elective
Dual Credit WITCC: EGT-410
Prerequisite: Geometry or currently enrolled
Grade Level: 10-12
Course Description: This course will assist students with an understanding of the field of engineering and engineering technology. By exploring various technology systems and manufacturing processes, students learn how engineers and technicians use math, science and technology. Drafting and design are primary aspects of the course. The course also includes concerns about social and political consequences of technological change.

Manufacturing Processes
Course Number: 9GB5A (Sem. 1)
Credit: 1
GPA: Yes
Elective/Required: Elective
Dual Credit WITCC: MFG-206
Prerequisite: None
Grade Level: 11-12
Taught at WITCC
Course Description: This course is intended to provide basic knowledge and background covering manufacturing systems, properties and production of metals, basic machine tool elements and basic machining processes. An understanding of safety when working with machine operations will be emphasized.
**Introduction to CAD/CAM**

Course Number: 9GB6A
Credits: 1
Elective/Required: Elective
GPA: Yes
Prerequisite: Manufacturing Processes
Grade Level: 11-12
Taught at WITCC

Course Description: This course is an introduction to computer-aided drafting and computer-aided manufacturing. The student will learn basic CAD/CAM software commands and processes and progress to specific command sequence operations related to manufacturing.

**Virtual Reality for Manufacturing**

Course Number: 9GC0B
Credits: 4
Elective/Required: Elective
GPA: Yes
Prerequisite: Introduction to CAD/CAM
Grade Level: 11-12
Taught at WITCC

Course Description: This course provides the student with hands-on knowledge of fundamental virtual reality environments and how they play a key role in the design and manufacturing of products and procedures.

**Introduction to Automation**

Course Number: 9GC1A
Credits: 4
Elective/Required: Elective
GPA: Yes
Prerequisite: Virtual Reality for Manufacturing
Grade Level: 12
Taught at WITCC

Course Description: This course is designed for the student with little or no knowledge of fluid power, electrical control and automation. Topics include basic principles, components of fluid power and basic design of electrical controls/plc’s as it applies to automation/robotics in industry.

**Manufacturing Design**

Course Number: 9GB7B
Credits: 2
Elective/Required: Elective
GPA: Yes
Prerequisite: Introduction to CAD/CAM
Grade Level: 11-12
Taught at WITCC

Course Description: This course provides students a fundamental understanding of design and construction of special tools. Students design and/or build tooling while completing a hands-on project.

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**MARKETING**

**Foundation Course**

- B019 Business 101 2

**Specialization Courses**

- B014 Sports & Entertainment Management 1
- B007 Sales & Marketing 1
- B620 Digital Imaging 1
- B607 Digital Color Theory 1
- B108 Computer & Yearbook Application 2
- B018 Business Entrepreneurship 2
- B600 Introduction to Business 1
- B601 Principles of Management 1
- B602 Human Resource Management 1
- B605 Principles of Marketing 1

**Business 101**

Course Number: B019
Credits: 1
Elective/Required: Elective
GPA: Yes
Prerequisite: None
Grade Level: 9-12

Course Description: This year-long course is designed to introduce students to the pathways and programs of study available in Business Education in the Sioux City Community Schools. The content of this course provides a broad overview about several areas of the business world; entrepreneurship, accounting/finance, marketing, management, employability skills, and global business. Students will be able to learn about and explore the industry of business through projects and hands-on activities. After completing this course, the student will be able to determine which area they would like to pursue within the field of business.

**Sports & Entertainment Management**

Course Number: B014
Credits: 1
Elective/Required: Elective
GPA: Yes
Prerequisite: None
Grade Level: 9-12

Course Description: Sports & Entertainment Management is a comprehensive course that covers many aspects of the sports and entertainment field. Some of the areas discussed in this course include: the history and evolution of Sports & Entertainment Management (SEM), creating a brand/licensing, sponsorships, promotions, endorsements, ticket sales, communications, and careers in the SEM field. Projects are a large part of this course.
### Sales & Marketing
**Course Number:** B007  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 9-12  
**Course Description:** Students will learn sales and marketing strategies used in the business world. This class incorporates advertising techniques and their effect on sales and uses Power Point software on computers to make presentations on business products or services. Projects are a big part of the course. This course serves as a foundation for possible career paths in sales, marketing, or general business.

### Digital Imaging
**Course Number:** B620  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 10-12  
**Course Description:** This course covers an introduction to the Mac OS interface and associated hardware. It also covers the Adobe Photoshop software, which is used to manipulate images used in digital and printed media. Topics include software interface, tools, retouching, collage, scanning, keyboard shortcuts, corrective filters and techniques, color correction and automation.

### Digital Color Theory
**Course Number:** B607  
**Credit:** 1  
**Elective/Required:** Elective  
**Prerequisite:** Digital Imaging  
**Grade Level:** 10-12  
**Course Description:** This course will provide Graphic students with the skills necessary to be effective in design. Fundamental studio experiences, along with a historical perspective, will provide insight and understanding to intrinsic power of color in design. Students explore how these principles are applied in the marketplace through Adobe Photoshop and InDesign.

### Computer & Yearbook Application
**Course Number:** 1008  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 10-12  
**Course Description:** The yearbook staff produces the school yearbook. Some of the skills involved in this course are layout and design using various computer programs, photography, sales techniques, advertising and marketing, interviewing, as well as problem solving, and teamwork. Differentiated instruction provides a classroom structure that supports time, choice, response, and goal-setting. Students will sell advertisements to area businesses, help promote the sale of the yearbooks, and assist in the student tribute sales. Additionally, yearbook staff members will take pictures as assigned by the advisor/teacher and the editors. Yearbook staff members will assist during the annual picture day and during distribution of the yearbooks. Excellent attendance and meeting all deadlines is a requirement. Availability to transportation to go to various school events and for selling advertisements is necessary.

### Business Entrepreneurship
**Course Number:** B018  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 11-12  
**Course Description:** Students gain an understanding of the marketing and management principles necessary to start and operate their own business. They will develop an awareness of the opportunities for small business ownership and the planning skills needed to open a small business. Students will become aware of the traits and characteristics of successful entrepreneurs and develop an entrepreneurial mindset. Students gain an awareness of the research, planning and the regulations that effect small business and the means of financing a business. They will also understand the specific strategies for business management and marketing and the economic role of the entrepreneur in the market system. This year-long course utilizes the IceHouse curriculum from ELI (The Entrepreneurial Initiative) and the BizInnovator curriculum from the University of Iowa. Students have the potential to earn 3 credits from the University of Iowa.
Introduction to Business
Course Number: B600 (Sem. 1) Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: BUS-102
Prerequisite: None
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This course provides a broad overview of business including internal and external functions. Topics include economics, marketing, entrepreneurship, and management as well as related domestic and international business issues.

Principles of Management
Course Number: B601 (Sem. 2) Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: MGT-101
Prerequisite: None
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This course introduces students to the role of planning, organizing, staffing, directing, and controlling in formal and informal organizations of all sizes. This course presents theoretical bases and real world examples of implementation.

Human Resource Management
Course Number: B602 (Sem. 1) Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: MGT-170
Prerequisite: None
Grade Level: 10-12
Proficiency Required: ISASP or ACT
Course Description: This course is a combination of theoretical and practical approaches to human resource management. Topics include job design, employee selection, employee development, employee appraisal, and employee termination. Additionally, it explores federal statutes relating to EEO, Affirmative Action, OSHA, and labor unions and also addresses, employee compensation and fringe benefit packages.

Principles of Marketing
Course Number: B605 (Sem. 2) Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: MKT-110
Prerequisite: None
Grade Level: 10-12
Proficiency Required: ISASP or ACT
Course Description: This course covers consumer and organizational buying behavior, targeting market opportunities, developing and managing new products, marketing channels, logistics, and strategic market planning and implementation. This course examines marketing from the consumer’s and organizational perspective.

MASS COMMUNICATION
Foundation Course
1022 Mass Communications 2

Specialization Courses
B630 Media Production & Equipment 1
B631 Audio Production & Equipment 1

Capstone Courses
B640 Technical Production in Media 1
B641 Studio Production in Mass Communications 1

Mass Communications
Course Number: 1022 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: This course gives students an opportunity to explore and research both print and non-print media. The class examines the history of journalism, journalism and law, newspapers, advertising, and television and films. In addition, students will focus on propaganda techniques and their effects on consumers. Students will learn specialized writing skills in researching, organizing, and writing in a persuasive or technical style on given topics.
Media Production & Equipment
Course Number: B630 (Sem. 1)
Credit: 1
GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: This course introduces the student to the basics of media production and the equipment used to perform media production for television, multimedia and the web. Basic operation of ENG, EFP, DSLR as well as non-traditional visual gathering cameras is covered. The basics of shot composition and exposure are introduced. Various types of camera support are explained and demonstrated. File management is an integral part of this course.

Audio Production & Equipment
Course Number: B631 (Sem. 2)
Credit: 1
GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: This course includes the theory and application of analog audio production and signal flow, including analog tape editing and recording techniques. It addresses effective sound reinforcement, achieved through the use of microphones, mixers, signal processing, power amps, and speakers. Students are introduced to the audio components and equipment and given practical applications in analog production and sound system operation.

Technical Production in Media
Course Number: B640 (Sem. 1)
Credit: 1
GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: This course covers the different types of lighting for media production. Types of instruments, color temperature, lighting modification and styles are discussed. Lighting for location, stage and studio are part of this course. Automated lighting methods such as DMX are also discussed.

Studio Production in Mass Communications
Course Number: B641 (Sem. 2)
Credit: 1
GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: This course addresses the fundamentals of architectural acoustics and introduces students to the most current types and usages of multimedia as they relate to audio production. Emphasis is placed on the application of recording techniques and equipment in varied modes of communication such as wired and wireless applications, and audio and video conferencing. Students learn to adapt to a variety of acoustical settings and venues, and demonstrate intuitive and creative use of professional skills and tools used in the entertainment, educational, and professional world.

MOBILE GAME & APP DEVELOPMENT
Specialization Courses
9GG0A  Swift & The Internet of Things  2
9GG1A  UI / UX Design     2
9GG3B  Digital Art & 3D Design   2
9GG2B  Game Programming    2

Swift & The Internet of Things
Course Number: 9GG0A (Sem. 1)
Credit: 2
GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Taught at WITCC
Course Description: This course consists of three big sections that will get you up and running with the Internet of Things. The first part of the course starts you out learning the Swift Language that can be used to create iOS apps and be used to run Server Side Code. In this section, you will learn how to design, create, and debug programs created with the Swift Language. The second portion of the course deals with small electronics that run off an Arduino board. You will learn the basics of creating and debugging circuits. The final section links the first two sections together. You will create your own internet of things device that is composed of a Swift Server on a Raspberry Pi that is monitoring an electronic circuit you created. Finally, you will create your own app that will monitor this device remotely.
UI / UX Design
Course Number: 9GG1A  (Sem. 1)
Credit: 2
Elective/Required: Elective
GPA: Yes
Prerequisite: None
Grade Level: 10-12
Taught at WITCC
Course Description: This course provides an overview of the user interfaces (UI). Students will explore what makes a good interface, what makes a bad interface, and techniques on how to create user interfaces, the look, and interactions. This course will explore how to develop robust, reliable applications as a collection of interfaces, that interact with each other and their compatible implementations. Topics will include interface contracts, inheritance and its implications for interface design and user experience, differences in the considerations for local versus remote interfaces, and industry standard interface design patterns. We will discuss other topics such as cross platform interface, platform differences, transparency, and standard UI practices. While the concepts and techniques in the course are largely platform and language independent, Objective-C iPhone applications will be used for implementation of the interfaces.

Digital Art & 3D Design
Course Number: 9GG3B  (Sem. 2)
Credit: 2
Elective/Required: Elective
GPA: Yes
Prerequisite: None
Grade Level: 10-12
Taught at WITCC
Course Description: This course introduces students to key concepts of two-dimensional design, the fundamentals of three-dimensional design and composition, design problem-solving, spatial orientation, and the organizing principles of design such as texture, line, shape, value, mass, and color theory. This course bridges traditional and new media art with an emphasis on application using digital medium.

Game Programming
Course Number: 9GG2B  (Sem. 2)
Credit: 2
Elective/Required: Elective
GPA: Yes
Prerequisite: None
Grade Level: 10-12
Taught at WITCC
Course Description: This introductory entertainment design course covers the basics of games, audio and dynamic animation control in 2D. The topics include an introduction to game physics, game AI, Core Audio and head-to-head network gaming. Other topics include 2D, 2.5D and 3D animation with 3D audio, physics, more advanced AI and network/Bluetooth technologies to build entertainment and games applications.

PHARMACY TECH
Year 2
7615  Health Careers & Teams I  1
7025  Health Careers & Teams II  1
Year 3
7611  Medical Terminology  1
7612  Issues in Health & Society  1
Year 4
7G78A Introduction to Pharmacy Technology  1
7G79A Pharmacy Calculations and Compounding  1
7G80A Pharm. Technician Practicum  1
7G81B Pharmacology for Pharmacy Technician  1
7G82B Pharmacy Law  .5
7G83B Pharmacy Tech. Practicum  .5

Health Careers & Teams I
Course Number: 7615  (Sem. 1)
Credit: 1
Elective/Required: Elective
GPA: Yes
Prerequisite: None
Grade Level: 10-12
Course Description: This course is a one semester course 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. Students will tour several hospital departments and have an opportunity to hear from healthcare professionals about career options. It also provides instruction in browsing the internet, using email, and other computer literacy tools necessary for taking online courses and for careers in the healthcare industry.

Health Careers & Teams II
Course Number: 7025  (Sem. 2)
Credit: 1
Elective/Required: Elective
Prerequisite: Health Careers & Teams I
Grade Level: 10-12
Course Description: This course presents skills and characteristics expected of healthcare professionals. Students will learn about job seeking skills, legal and ethical concerns, team dynamics, and communication techniques necessary to work and succeed in the healthcare field.

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Medical Terminology
Course Number: 7611 (Sem. 1)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: HSC-114
Prerequisite: None
Grade Level: 10-12
Course Description: This course focuses on medical terminology using an anatomical body system approach. A basic understanding of medical terminology is fundamental to all persons working within the healthcare profession. Correct pronunciation and spelling are necessary when communicating patient care among other professionals of the health care team. This course presents medical terminology as the language of medicine. Students learn spelling, pronunciation and usage, with emphasis on word analysis and construction of definitions. A case study approach focusing on the body systems will assist students to master medical terminology. Students will have an opportunity to complete an interactive patient medical history project.

Issues in Health & Society
Course Number: 7612 (Sem. 2)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: HSC-111
Prerequisite: Medical Terminology
Grade Level: 10-12
Course Description: This course presents an overview of current health issues, concepts, and theories related to health. It both an overview of areas of conflict in health as well as ways of looking at the conflicts. The purpose of this course is to introduce a number of contemporary topics in order to illustrate how controversies are viewed from a healthcare perspective.

Introduction to Pharmacy Technology
Course Number: 7G78A (Sem. 1)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: PHR-105
Prerequisite: None
Grade Level: 12
Proficiency Required: ISASP or ACT Taught at WITCC
Course Description: This course is designed to provide the student with a working knowledge about community and institutional pharmacy practice. The course will teach pharmacy technician students information, techniques, and procedures needed to assist the pharmacist in delivery of pharmaceutical products and services. Students taking this course should have basic reading comprehension skills and high school algebra.

Pharmacy Calculations and Compounding
Course Number: 7G79A (Sem. 1)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: PHR-135
Prerequisite: Introduction to Pharmacy Technology
Grade Level: 12 Taught at WITCC
Course Description: This course will include reading, interpreting, and solving calculation problems encountered in the preparation and distribution of medications. Specific compounding topics include medication and parenteral administration; facilities, equipment, and supplies utilized in admixture preparation; techniques utilized in parenteral product compounding; introduction to parenteral medication incompatibilities; and quality assurance.

Pharm. Technician Practicum
Course Number: 7G80A (Sem. 1)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: PHR-941
Prerequisite: Introduction to Pharmacy Technology
Grade Level: 12 Taught at WITCC
Course Description: This course provides the student with the opportunity to learn the clinical skills required to function as a Pharmacy Technician. Students will also have the opportunity to demonstrate clinical applications of skills and to assume the role of the Pharmacy Technician. They will then apply and practice these skills in the institutional and/or retail pharmacy setting under the direct supervision of a pharmacist.

Pharmacology for Pharmacy Technician
Course Number: 7G81B (Sem. 2)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: PHR-120
Prerequisite: Introduction to Pharmacy Technology
Grade Level: 12
Proficiency Required: ISASP or ACT Taught at WITCC
Course Description: Pharmacy technician students are introduced to the general principles of pharmacology. Drugs are discussed in the context of drug classes, mechanics of action, disease types, and body systems. The goal is to provide pharmacy technicians with sufficient background information so that they will be able to play a key role in avoiding dispensing errors.
Pharmacy Law
Course Number: 7G82B (Sem. 2)
Credit: .5
Elective/Required: Elective
Prerequisite: Introduction to Pharmacy Technology
Grade Level: 12
Course Description: Students will reviews the laws affecting pharmacy practice. Course highlights include the Food, Drug and Cosmetic Act and various federal and state controlled substance acts.

Pharmacy Tech. Practicum
Course Number: 7G83B (Sem. 2)
Credit: .5
Elective/Required: Elective
Prerequisite: Intro to Pharmacy Technician; Pharmacology for Pharmacy Technician
Grade Level: 12
Proficiency Required: ISASP or ACT
Course Description: Students will have the opportunity to learn the clinical skills required to function as a Pharmacy Technician. Students will also have the opportunity to demonstrate clinical applications of skills and to assume the role of the Pharmacy Technician. They will then apply and practice these skills in the institutional and/or retail pharmacy setting under the direct supervision of a pharmacist. Students must submit to a criminal and abuse background check and be cleared before starting the clinical experience. Students must have a physical, and submit health-screening paperwork to be cleared for clinical. In addition, students may need to consent for drug testing.

PLUMBING
Year 1
9000 Industrial Arts Technology 2

Year 2
9031 Welding I 2

Year 3
9GE6A Basic Plumbing 1
9GE7A Blueprint Reading and Estimating 1
9GE8A Industrial Safety 1
9GE9A Basic Electrical Theory 1
9GF0B Industrial Plumbing and Pipefitting 2
9GF1B Building Codes and Specifications 1
9GF2B Commercial Fixtures 1

Year 4
9GF3A Residential Piping 2
9GF4A Residential Code 1
9GF5A Residential Fixtures 1
9GF6B Commercial Piping 2
9GF7B Commercial Code 1
9GF8B Plumbing Troubleshooting 1

Industrial Arts Technology
Course Number: 9000 (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: This course is designed to introduce CTE courses in the 21st century. Students will receive coursework in several areas of the industrial world (safety, engineering, manufacturing, power, construction). Time will be spent both in the classroom and hands on laboratory settings. After completing this course, the student will have a broader view of which area they would like to pursue in the future of CTE.
Welding I
Course Number: 9031 (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Taught at Harry Hopkins Center
Course Description: This course is designed to provide an overview of welding as an occupation and possible career choice. Students will learn about metal welding, brazing, flame cutting, blueprint reading, electrical principles, and welding symbols. Related areas of study include tool and equipment safety, theory of welding processes, equipment set-up, and basic welding skills. Activities include Plasma Arc Cutting (PAC), Oxy-Acetylene Cutting (OAC), and building weld pads and weld joints in Oxy-Acetylene Welding (OAW), Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), and Gas Tungsten Arc Welding (GTAW). Activities are hands-on, adhere to American Welding Society Standards, and are conducted in a collaborative environment.

Basic Plumbing
Course Number: 9GE6A (Sem. 1)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 11, 12
Taught at WITCC
Course Description: This course is an introduction to a career in plumbing across a variety of residential and commercial settings. Students study safety procedures and tools as well as perform operations with both residential and commercial plumbing systems.

Blueprint Reading and Estimating
Course Number: 9GE7A (Sem. 1)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 11, 12
Taught at WITCC
Course Description: This course examines construction related drawings and the language of construction. Students are shown how to gather and use information from prints and drawings to estimate quantities of materials and perform construction work processes.

Industrial Safety
Course Number: 9GE8A (Sem. 1)
Credit: 1
Elective/Required: Elective
Dual Credit WITCC: ELE 101
Prerequisite: None
Grade Level: 11, 12
Taught at WITCC
Course Description: 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.

Basic Electrical Theory
Course Number: 9GE9A (Sem. 1)
Credit: 1
Elective/Required: Elective
Dual Credit WITCC: ELE 112
Prerequisite: None
Grade Level: 11, 12
Taught at WITCC
Course Description: This course will introduce the students to the fundamentals of electricity. Electrical topics will include AC and DC theory, Ohm's Law, Electrical Circuits, Electrical Power Generation, Motors, and Transformers. This course emphasizes electrical safety as students will work with energized circuits.

Industrial Plumbing and Pipefitting
Course Number: 9GF0B (Sem. 2)
Credit: 2
Elective/Required: Elective
Dual Credit WITCC: BMA 177
Prerequisite: None
Grade Level: 11, 12
Taught at WITCC
Course Description: This course in fundamental plumbing and pipefitting covers topics including the properties of torque, the use of torque and the application of torque; the development and use of piping schematics; elementary pipe layout and joint construction with various materials; the purpose, use, construction and operation of valves and process control equipment used in manufacturing.
Building Codes and Specifications  
**Course Number:** 9GF1B  
**Credit:** 1  
**Elective/Required:** Elective  
**GPA:** Yes  
**Dual Credit WITCC:** CON 383  
**Prerequisite:** None  
**Grade Level:** 11, 12  
**Course Description:** This course is a study of the construction building codes recommended by U. S. government agencies, the National Board of Fire Underwriters, and Electrical Code. It also covers the development of specifications as used by the construction trades which guide the complete construction process as to the type and quality of materials, workmanship, and the relationship of the parties concerned with specific projects.

Commercial Fixtures  
**Course Number:** 9GF2B  
**Credit:** 1  
**Elective/Required:** Elective  
**GPA:** Yes  
**Dual Credit WITCC:** PLU 182  
**Prerequisite:** None  
**Grade Level:** 11, 12  
**Course Description:** This course provides information needed to install commercial fixtures.

Residential Piping  
**Course Number:** 9GF3A  
**Credit:** 2  
**Elective/Required:** Elective  
**GPA:** Yes  
**Dual Credit WITCC:** PLU 170  
**Prerequisite:** None  
**Grade Level:** 12  
**Course Description:** This course identifies the various types of pipe and fittings used in residential plumbing systems. Students will have hands-on experience in the rough-in and finish stages of plumbing installation. Also emphasized is the extension of the sewer and water supply piping inside the building.

Residential Code  
**Course Number:** 9GF4A  
**Credit:** 1  
**Elective/Required:** Elective  
**GPA:** Yes  
**Dual Credit WITCC:** PLU 171  
**Prerequisite:** None  
**Grade Level:** 12  
**Course Description:** This course provides information on how to read and understand the required codes that govern plumbing procedures in residential dwellings. Students will gain experience using the code books to identify the required procedures.

Residential Fixtures  
**Course Number:** 9GF5A  
**Credit:** 1  
**Elective/Required:** Elective  
**GPA:** Yes  
**Dual Credit WITCC:** PLU 172  
**Prerequisite:** None  
**Grade Level:** 12  
**Course Description:** This course provides information needed to install fixtures, faucets, and appliances.

Commercial Piping  
**Course Number:** 9GF6B  
**Credit:** 2  
**Elective/Required:** Elective  
**GPA:** Yes  
**Dual Credit WITCC:** PLU 180  
**Prerequisite:** None  
**Grade Level:** 12  
**Course Description:** This course identifies the types of pipe and fittings used in commercial plumbing systems. Students will have hands-on experience in plumbing installation.

Commercial Code  
**Course Number:** 9GF7B  
**Credit:** 1  
**Elective/Required:** Elective  
**GPA:** Yes  
**Dual Credit WITCC:** PLU 181  
**Prerequisite:** None  
**Grade Level:** 12  
**Course Description:** This course provides information on how to read and understand the required codes that govern plumbing procedures in commercial buildings. Students will gain experience using the code books to identify the required procedures.

Plumbing Troubleshooting  
**Course Number:** 9GF8B  
**Credit:** 1  
**Elective/Required:** Elective  
**GPA:** Yes  
**Dual Credit WITCC:** PLU 190  
**Prerequisite:** None  
**Grade Level:** 12  
**Course Description:** This course introduces the basic troubleshooting skills that will be essential to repair drains, waste and vent systems, water supplies, and natural gas lines. Scenarios are provided to enable students to locate the symptoms and diagnose the right cause and work to repair the system at fault. Students are exposed to various methods of troubleshooting on a variety of plumbing systems.
Policing Science

Year 3
- 8603 Introduction to Criminal Justice 1
- 8609 Ethics in Criminal Justice 1

Year 4
- 8608 Introduction to Corrections 1
- 7634 Emergency Police Responder 1

Introduction to Criminal Justice
Course Number: 8603 (Sem. 1)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 11-12  
Course Description: This course studies the history of law enforcement and respective agencies and the basic theories of the 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.

Ethics in Criminal Justice
Course Number: 8609 (Sem. 2)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: Introduction to Criminal Justice  
Grade Level: 11-12  
Proficiency Required: ISASP or ACT  
Course Description: This course covers the ethical standards and codes of professional behavior for police officers and others placed in positions of public trust. The course includes use of force, gratuities, intra- and inter-agency conduct, integrity, ethical necessity of due process and on-duty and off-duty conduct.

Introduction to Corrections
Course Number: 8608 (Sem. 2)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: Intro to Criminal Justice, Ethics in Criminal Justice  
Grade Level: 12  
Proficiency Required: ISASP or ACT  
Course Description: This course presents the development of correctional theory, the correctional client, trial sentencing, and institutions involved, and rehabilitation potential through probation and parole.

Emergency Police Responder
Course Number: 7634 (Sem. 1)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: Introduction to Corrections  
Grade Level: 12  
Proficiency Required: ISASP or ACT  
Course Description: This course deemphasizes the development of student skills in emergency medical care procedures. Topics include life threatening emergencies, injuries to various body parts, techniques of moving patients, CPR-BLS, and the safety and well-being of the Emergency Medical Responder. Successful completion of course requirements allows students to write national certification examination. AHA BLS Healthcare Provider CPR is provided during this course.

Surgical Tech

Year 2
- 7611 Medical Terminology 1  
- 7612 Issues in Health & Society 1  

Year 3
- 7619 Human Anatomy & Physiology I 1  
- 7621 Human Anatomy & Physiology II 1  

Year 4
- 7G26 Introduction to Surgical Technology 4  
- 7G77B Patient Care Concepts 4

Medical Terminology
Course Number: 7611 (Sem. 1)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 10-12  
Course Description: This course focuses on medical terminology using an anatomical body system approach. A basic understanding of medical terminology is fundamental to all persons working within the healthcare profession. Correct pronunciation and spelling are necessary when communicating patient care among other professionals of the health care team. This course presents medical terminology as the language of medicine. Students learn spelling, pronunciation and usage, with emphasis on word analysis and construction of definitions. A case study approach focusing on the body systems will assist students to master medical terminology. Students will have an opportunity to complete an interactive patient medical history project.
Issues in Health & Society
Course Number: 7612 (Sem. 2)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: HSC-111
Prerequisite: Medical Terminology
Grade Level: 10-12
Course Description: This course presents an overview of current health issues, concepts, and theories related to health. It both an overview of areas of conflict in health as well as ways of looking at the conflicts. The purpose of this course is to introduce a number of contemporary topics in order to illustrate how controversies are viewed from a healthcare perspective.

Human Anatomy & Physiology I
Course Number: 7619 (Sem. 1)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: BIO-168
Prerequisite: Biology I and Chemistry or Honors Weighted Biology and Honors Chemistry; Surgical Tech- Soph. Year
Grade Level: 11-12
Course Description: This course is a combination of lecture and lab work. It explores the relationship between structure, function and homeostasis in the human body. It covers the skeletal, muscular, integumentary and nervous systems, as well as cytology and histology.

Human Anatomy & Physiology II
Course Number: 7621 (Sem. 2)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: BIO-173
Prerequisite: Human Anatomy & Physiology I Weighted
Grade Level: 11-12
Course Description: This combination of lecture and lab work is a continuation of Anatomy & Physiology I. The topics studied include the structure and function of the cardiovascular, lymphatic, endocrine, respiratory, digestive, urinary, and reproductive systems.

Introduction to Surgical Technology
Course Number: 7G26 (Sem. 1)
Credit: 4 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: SUR-127
Prerequisite: Human Anatomy & Physiology II
Grade Level: 12 Taught at WITCC
Proficiency Required: ISASP or ACT
Course Description: This course provides an in-depth introduction of the role and responsibilities of the surgical technologist, an integral health care professional in the delivery of peri-operative patient care and surgical services. Introduction to Surgical Technology includes characteristics of the profession, interpersonal relationships, information resources and communication skills. The course correlates the impact of microbiology in relationship to the practice of sterile technique and infection control in the operative setting. Students are introduced to medical terminology, disinfection, decontamination and sterilization, aseptic technique, scrubbing, gown and gloving, surgical instruments, equipment and supplies. Instructor consent required.

Patient Care Concepts
Course Number: 7G77B (Sem. 2)
Credit: 4 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: SUR-145
Prerequisite: Human Anatomy & Physiology II
Grade Level: 12 Taught at WITCC
Proficiency Required: ISASP or ACT
Course Description: This course is an introduction to the roles and responsibilities of the surgical team when delivering peri-operative patient care and surgical services. Patients’ needs are addressed in addition to patient identification, review of the chart, documentation, surgical positioning, skin preparation, urinary catheterization, specimen care, wound classification, vital signs, hemodynamics, monitoring and discharge planning. Students learn appropriate responses to legal, ethical and moral issues, as well as emergency situations. Instructor consent required.
# WELDING

## Year 1
- **Industrial Arts Technology**
  - **Course Number:** 9000
  - **Credit:** 2
  - **GPA:** Yes
  - **Elective/Required:** Elective
  - **Prerequisite:** None
  - **Grade Level:** 9-12
  - **Course Description:** This course will introduce Industrial Technology of the 21st century. Students will receive coursework in safety, engineering, manufacturing, power, construction. Time will be spent both in the classroom and hands-on laboratory settings. Students will gain a basic understanding of all pathways offered in this content area.

## Year 2
- **Welding I**
  - **Course Number:** 9031
  - **Credit:** 2
  - **GPA:** Yes
  - **Elective/Required:** Elective
  - **Prerequisite:** None
  - **Grade Level:** 10-12
  - **Course Description:** 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.

## Year 3
- **Introduction to GMAW**
  - **Course Number:** 9G78B
  - **Credit:** 2
  - **GPA:** Yes
  - **Elective/Required:** Elective
  - **Prerequisite:** None
  - **Grade Level:** 11-12
  - **Course Description:** 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.

- **GMAW Production**
  - **Course Number:** 9G79B
  - **Credit:** 2
  - **GPA:** Yes
  - **Elective/Required:** Elective
  - **Prerequisite:** None
  - **Grade Level:** 11-12
  - **Taught at WITCC**
  - **Course Description:** 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.

- **OXY Fuel Welding/Cutting**
  - **Course Number:** 9G80A
  - **Credit:** 2
  - **GPA:** Yes
  - **Elective/Required:** Elective
  - **Prerequisite:** None
  - **Grade Level:** 11-12
  - **Taught at WITCC**
  - **Course Description:** 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.
ARC Welding Introduction (SMAW)
Course Number: 9G81A (Sem. 1)
Credit: 2 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: WEL-147
Prerequisite: None
Grade Level: 11-12 Taught at WITCC
Course Description: 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 plate using visual and destructive methods of determining weld quality to AWS Standards.

ARC Welding Intermediate (SMAW)
Course Number: 9G82A (Sem. 1)
Credit: 2 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: WEL-148
Prerequisite: ARC Welding Introduction
Grade Level: 12 Taught at WITCC
Course Description: This is the second of two courses designed for students to prepare for the certification. A combined lecture and lab course, students study safety, bent settings, polarity, penetration welding, horizontal and vertical welding, and the proper selection of electrodes in the arc welding process. Topics include welding on carbon steel plate using visual and destructive methods of determining weld quality to AWS standards.

Measuring, Layout, & Applied Weld Symbols
Course Number: 9G83A (Sem. 1)
Credit: 2 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: WEL-425
Prerequisite: None
Grade Level: 12 Taught at WITCC
Course Description: 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.

Introduction to Pulse ARC GMAW Weld
Course Number: 9G84B (Sem. 2)
Credit: 2 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: WEL-424
Prerequisite: GMAW Production
Grade Level: 12 Taught at WITCC
Course Description: This course combines lecture and lab activities to present the Gas Metal Arc Welding (MIG) process used extensively by industry with a focus on pulse metal transfer. This course emphasizes hands-on applications, GMAW pulse arc transfer concepts, GMAW pulse arc equipment, welding procedures, and out of position welding, with an emphasis on stainless and mild steels and safety.

Industrial Safety
Course Number: 9GE8A (Sem. 1)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: ELE-101
Prerequisite: None
Grade Level: 11, 12 Taught at WITCC
Course Description: 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.

Welding Blueprint Reading
Course Number: 9GF9B (Sem. 2)
Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: WEL-110
Prerequisite: None
Grade Level: 12 Taught at WITCC
Course Description: This course presents the use of blueprints for transfer of ideas and information. Students learn how to read blueprints with special emphasis on welding blueprints, including lines, views, material descriptions, welding layouts, welding symbols and terms. The application of concepts will be emphasized.
CORE COURSES

HEALTH
IJAG
LANGUAGE ARTS
MATHEMATICS
PHYSICAL SCIENCE

COLLEGE / TEST PREP
READINESS
ELD COURSES
FINE ARTS
HEALTH
IJAG
LANGUAGE ARTS
MATHEMATICS
PHYSICAL SCIENCE
SCHOOL-TO-WORK
SCIENCE
SOCIAL STUDIES
TRAFFIC EDUCATION
WORLD LANGUAGE
College & Test Prep Readiness

Course Number: X027 (Sem 1 or Sem. 2)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: This test prep curriculum contains extensive lessons on all English, math, reading and science skills tested on the ACT. Students will thoroughly study the general test-taking tips and strategies for mastering each section of the ACT as well as drill on content through the use of interactive activities, lessons, worksheets, and peer teaching exercises. Each content area includes practice tests and interactive activities where students work with each other on reading passages, sentences, data collection projects, and group writing exercises. The curriculum will assist students in improving ACT scores, as well as reinforce concepts used daily in the classroom. Students will receive information on admission to post-secondary institutions, scholarships, and financial aid. At the end of the course, students will be expected to take the ACT.

FINE ARTS
A total of two credits are required from two different areas. Select from Music, Visual Arts, Dramatic Arts, or Additional Courses.

Music
2024 Concert Choir 2
2025 Chamber Choir 2
2005 Harmony I 1
2018 Chorale 2
2030 Varsity Choir 2
2017 History of American Popular Music 1
2013 Orchestra 2
2035 Concert Band 2
2033 Symphonic Wind Ensemble 2
2027 Jazz Band 1
2028 Jazz Improvisation 1
2445 AP Music Theory 2

Visual Arts
2000 Art I - 2 Dimensional 1
2001 Art I - 3 Dimensional 1
2020 Art II - 2 Dimensional 2
2021 Art II - 3 Dimensional 2
2040 Art III - 2 Dimensional 2
2041 Art III - 3 Dimensional 2
2060 Art IV - 2 Dimensional 2
2061 Art IV - 3 Dimensional 2
2004 Independent Study 1-2

2442 AP Studio Art: Drawing 2
Dramatic Arts
1006 Play Production 1
1007 Drama 1
Additional Courses
4016 Design Studio 1
B620 Digital Imaging 1
B607 Digital Color Theory 1
9658 Digital Photography 1
B631 Audio Production & Equipment I 1
B641 Studio Production in Mass Communication 1
1005 Humanities 1

MUSIC

Concert Choir
Course Number: 2024 (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Elective
Prerequisite: Placement in ensemble to be determined by director
Grade Level: 9-12
Course Description: This course offers challenging vocal music literature and represents the school in public concerts and school performances. Students must have the musical maturity to perform complex literature.

Chamber Choir
Course Number: 2025 (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Elective
Prerequisite: Placement in ensemble to be determined by director
Grade Level: 9-12
Course Description: This course offers challenging vocal music literature and represents the school in public concerts and school performances. Students must have the musical maturity to perform complex literature.

Harmony I
Course Number: 2005 (Sem. 1 OR Sem. 2)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: Harmony introduces the fundamentals of music theory, including pitch, rhythm, melody, harmony, and aural skills. Through regular in-class assignments, homework, and routine assessments, this course is designed to prepare students for success in the AP Music Theory course. This course will be offered only when there is sufficient demand.
Chorale
Course Number: 2018  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: This course offers challenging vocal music literature and represents the school in public concerts and school performances.

Varsity Choir
Course Number: 2030  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: Placement in ensemble to be determined by director
Grade Level: 9-12
Course Description: A performance ensemble available to students interested in performing higher level literature. This ensemble focuses on part singing; literature performed by large groups, and improved rehearsal responsiveness.

History of American Popular Music
Course Number: 2017  (Sem. 1 or Sem. 2)
Credit: 1  GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: This course explores the evolution of popular music styles from the 19th century to the present and how they interact with broader themes in American history. Musical forms covered will include ragtime, blues, Broadway, musicals, early jazz, swing, Appalachian folk music, country, bluegrass, rhythm & blues, doo-wop, and all styles of rock and roll from the 1950's to metal, punk, alternative, and hip-hop. Students will be introduced to these through reading, in-class demonstrations, videos, and extensive listening.

Concert Band
Course Number: 2035  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: A performing ensemble available to all students. Emphasis is on the advancement of instrument technique, the further development of ensemble performance skills, and rehearsal and performance of intermediate level band music. This ensemble will perform at various concerts and/or contests per school year. During marching season, the ensemble meets before school. Marching Band Camp takes place in July/August.

Symphonic Wind Ensemble
Course Number: 2033  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: Placement in ensemble to be determined by director
Grade Level: 9-12
Course Description: The ensemble focuses on instrumental music that will challenge the advanced musician. Students must have the musical maturity to perform this more complex repertoire. Students will be expected to rehearse outside the school day, as well as class time. During marching season, the ensemble meets before school. Marching Band Camp takes place in July/August.

Jazz Band
Course Number: 2027  (Sem. 2)
Credit: 1  GPA: Yes
Elective/Required: Elective
Prerequisite: Enrolled in Band or Orchestra, Audition
Grade Level: 9-12
Course Description: Jazz Band is open to all brass, percussion and saxophone students, as well as those with an interest in jazz piano, guitar and bass. Music reading, playing, listening, and improvisation skills, as well as appreciation of jazz music are attained through the study and performance of a wide variety of jazz styles. Course topics include Jazz History as an American Art Form, Improvisation, Jazz Interpretation and Styles, and Jazz Music Vocabulary. Jazz Band meets as an early bird or late bird depending on the site.

Orchestra
Course Number: 2013  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: Performance ensemble that emphasizes the study of quality orchestral literature, continued technical development, and the refinement of musical skills.
Jazz Improvisation  
Course Number: 2028 (Sem. 1 OR Sem. 2)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: Enrolled in Band, Choir, or Orchestra  
Grade Level: 11-12  
Course Description: Jazz Improvisation will include an intense study of Jazz to include, the study of composers, compositions, and history of jazz. Students will study the styles of various eras and examine components of jazz to include improvisation, chord structure, performance practice, and individual styles of jazz greats. This course will be offered only when there is sufficient demand.

AP Music Theory  
Course Number: 2445 (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 11-12  
Course Description: AP Music Theory reviews the fundamentals of pitch, rhythm, melody, harmony, and aural skills; and explores the more complex ideas of cadences, transposition, figured bass, harmonic analysis, and tonal forms, all for the purpose of successfully completing the AP Music Theory Exam. Students will be assessed regularly with in-class assignments, homework, and routine quizzes/tests. Students are required to take the AP Exam.

VISUAL ARTS  
Art I - 2 Dimensional  
Course Number: 2000 (Sem. 1 or Sem. 2)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 9-12  
Course Description: This course is a hands-on introduction to the following; drawing, painting, and design. Graphics and Design will be integrated throughout the curriculum.

Art I - 3 Dimensional  
Course Number: 2001 (Sem. 1 or Sem. 2)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 9-12  
Course Description: This one semester course is a hands-on introduction to sculpture, pottery, and other media. The course explores the process of the development of a 2 dimensional idea to a 3 dimensional form.

Art II - 2 Dimensional  
Course Number: 2020 (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective  
Prerequisite: Must successfully complete Art I-2 Dimensional  
Grade Level: 10-12  
Course Description: A wide variety of media and subject matter will be studied from a selection of the following areas; drawing, painting, and design. Art History and computer graphics will be integrated throughout the course. Students focus on the design elements and principles and concentrate on projects dealing with the problem-solving process and manipulation through research and creativity. They will refine ideas from thumbnail sketches through to the final project.

Art II - 3 Dimensional  
Course Number: 2021 (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective  
Prerequisite: Must successfully complete Art I-3 Dimensional  
Grade Level: 10-12  
Course Description: This one semester course is a hands-on introduction to sculpture, pottery, and other media. The course explores the process of the development of a 2 dimensional idea to a 3 dimensional form.

Art III - 2 Dimensional  
Course Number: 2040 (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective  
Prerequisite: Must successfully complete Art II-2 Dimensional  
Grade Level: 11-12  
Course Description: Commercial art techniques and career exploration are introduced in this course. Advanced fine art experiences in some of the areas of drawing, painting are explored, utilizing modern technologies including computer based applications. Students will concentrate on building a portfolio to enter the work force or college.

Art III - 3 Dimensional  
Course Number: 2041 (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective  
Prerequisite: Must successfully complete Art II-3 Dimensional  
Grade Level: 11-12  
Course Description: This course is a continuation of Art II-3 Dimensional, with new experiences in a variety of materials, including technological experiences. Students are expected to use problem-solving techniques and the creative process.
Art IV - 2 Dimensional
Course Number: 2060 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective Prerequisite: Must successfully complete Art III-2 Dimensional Grade Level: 12 Course Description: In this course students may specialize in any of the fine art areas. Students are encouraged to use initiative, creativity, imagination, and experimentation in their work with modern technology on individual and specific art problems and assignments. Students will concentrate on building a portfolio to enter the work force or college.

Art IV - 3 Dimensional
Course Number: 2061 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective Prerequisite: Must successfully complete Art III-3 Dimensional Grade Level: 12 Course Description: A 3-D art course in which students may specialize in their areas of greatest interest and use initiative, creativity and experimentation to work on special projects and assignments. Students are expected to use problem-solving.

AP Studio Art: Drawing
Course Number: 2442 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective Weighted Prerequisite: Must successfully complete Art II-2 Dimensional and/or have Visual Art Teacher Approval Grade Level: 11-12 Course Description: Students will develop mastery of concept, composition, and execution of their personal ideas and themes. Through direct teacher instruction, emphasis will be placed on the production of a volume of quality pieces of art work. Students must develop a comprehensive portfolio that addresses: breadth, concentration and quality. This portfolio must be completed by the exam date. Required submission of the portfolio is the AP Exam.

Homework, in-school assignments, and reflections: Students will receive specific assignments as well as be asked to spend time working on a particular in-class assignment at home. They should be prepared to spend four to eight hours a week outside of class on their work. During all activities and assignments, the students will demonstrate how they each make art and ways that they solve problems, emphasizing the ongoing process they are involved with and ways that they make their informed and critical decisions.

Independent Study
Course Number: 2004 (Sem. 1 or Sem. 2) Credit: 1 (per semester) GPA: Yes
Elective/Required: Elective Prerequisite: Successful completion of at least one credit in Art I and approval of instructor Grade Level: 11-12 Course Description: Advanced, independent work beyond normal course offering. Work is planned and contracted for the student by student and instructor. This is a class for portfolio.

DRAMATIC ARTS
Play Production
Course Number: 1006 (Sem. 1 or Sem. 2) Credit: 1 GPA: Yes
Elective/Required: Elective Prerequisite: None Grade Level: 9-12 Course Description: Play production focuses on the detailed aspects of preparing and executing a successful production. Tasks include, but are not limited to, exploring the theatre process, various genres, and opposing criticisms. Students will experience multiple theatrical techniques such as costuming, set design and construction, lighting and sound, directing, acting, and play promotion.

Drama
Course Number: 1007 (Sem. 1 or Sem. 2) Credit: 1 GPA: Yes
Elective/Required: Elective Prerequisite: None Grade Level: 9-12 Course Description: Dramatics is a course open to students who are interested in a beginning class in the performing arts. Emphasis is on the fundamentals of acting, which will include various types of dramatic literature, history of theatre, and performance, as well as the basics of technical theatre. Improvisation, mime, and acting are the primary performance elements.

ADDITIONAL COURSES
Design Studio
Course Number: 4016 (Sem. 2) Credit: 1 GPA: Yes
Elective/Required: Elective Prerequisite: None Grade Level: 9-12 Course Description: This course is the foundation for students considering careers in interior and fashion design. It is a basic foundation course focusing on the element and principles of design, aesthetic awareness, problem solving and developing observation and technical skills.
Digital Imaging
Course Number: B620 (Sem. 1)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Proficiency Required: ISASP or ACT
Course Description: This course covers an introduction to the Mac OS interface and associated hardware. It also covers the Adobe Photoshop software, which is used to manipulate images used in digital and printed media. Topics include software interface, tools, retouching, collage, scanning, keyboard shortcuts, corrective filters and techniques, color correction and automation.

Digital Color Theory
Course Number: B607 (Sem. 2)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Proficiency Required: ISASP or ACT
Course Description: This course will provide Graphic students with the skills necessary to be effective in design. Fundamental studio experiences, along with a historical perspective, will provide insight and understanding to intrinsic power of color in design. Students explore how these principles are applied in the marketplace through Adobe Photoshop and InDesign.

Digital Photography
Course Number: 9658 (Sem. 1)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Proficiency Required: ISASP or ACT
Course Description: This course introduces students to the aspects of a career in photography. Students will take photographs with breadth and sequencing. Students study and practice the varied artistic applications of digital images. Students will manipulate photographs to enhance images with computer software. Students will conclude the course with a portfolio of photographs in digital and print forms.

Audio Production & Equipment
Course Number: B631 (Sem. 2)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: This course includes the theory and application of analog audio production and signal flow, including analog tape editing and recording techniques. It addresses effective sound reinforcement, achieved through the use of microphones, mixers, signal processing, power amps, and speakers. Students are introduced to the audio components and equipment and given practical applications in analog production and sound system operation.

Studio Production in Mass Communications
Course Number: B641 (Sem. 2)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: This course addresses the fundamentals of architectural acoustics and introduces students to the most current types and usages of multimedia as they relate to audio production. Emphasis is placed on the application of recording techniques and equipment in varied modes of communication such as wired and wireless applications, and audio and video conferencing. Students learn to adapt to a variety of acoustical settings and venues, and demonstrate intuitive and creative use of professional skills and tools used in the entertainment, educational, and professional world.

Humanities
Course Number: 1005 (Sem. 1 or Sem. 2)
Credit: 1
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: Humanities presents a chronological examination of the great ideas of man in the arts, music, literature, film, and philosophy of various cultures. This course specializes in philosophies of various cultures and relates these studies to students’ lives.
<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit</th>
<th>GPA</th>
<th>Elective/Required</th>
<th>Prerequisite</th>
<th>Grade Level</th>
<th>Course Description</th>
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</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>7003</td>
<td>Health I</td>
<td>1</td>
<td>Yes</td>
<td>Elective</td>
<td>None</td>
<td>9-12</td>
<td>This course is to provide students with the knowledge and skills needed to lead healthy lifestyles. Students will gain knowledge in skills such as accessing valid and reliable information, analyzing influences, communication, decision-making, goal setting, self-management, and advocacy. Each health skill will be taught in a variety of ways including classroom lectures, hands-on activities and projects, video clips, group discussions, and with the support of community speakers. Students will investigate the physical, mental, emotional, and social aspects of individual and group health.</td>
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<td>7024</td>
<td>Health II</td>
<td>1</td>
<td>Yes</td>
<td>Elective</td>
<td>Health I or Individuals &amp; Families</td>
<td>9-12</td>
<td>This course is designed for more individualized student work as well as exploration of careers and occupations in the Health fields and community health. Life-long nutrition and fitness, exploration into infectious and chronic diseases, and mental health awareness are all included in this course.</td>
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<tr>
<td>iJAG</td>
<td>X019</td>
<td>Introduction to iJAG</td>
<td>1</td>
<td>Yes</td>
<td>Elective</td>
<td>Instructor Selected</td>
<td>11-12</td>
<td>Introduction to iJAG, a career exploration and preparation program, provides an educational, hands-on approach in exploring personal strength and weaknesses. Students will work to build strengths in academic areas, time management, learn about personality and temperament, understand communication models for personal a career, use, identify values and understand the relationship between personal actions and consequences that follow. Students will make connections to their career interests, abilities and aptitudes by determining their education and career goals. Students will be able to demonstrate core competency attainment. All students are expected to participate in the student led Career Association. The program format involves individual assignments, team building activities/projects, academic re-mediation, service learning and guest speakers. Reid trips may be included at least one time per term.</td>
</tr>
<tr>
<td></td>
<td>X029</td>
<td>Advanced iJAG-Employment Strategy</td>
<td>1</td>
<td>Yes</td>
<td>Elective</td>
<td>Introduction to iJAG, Instructor Selected</td>
<td>11-12</td>
<td>Advanced iJAG offers and advanced career preparation program that provides an educational, hands-on approach in employability/job attainment skills (resumes, cover letters, job application, interviewing, etc.) and work place survival skills. Students will continue their own self-study on career options, with emphasis on planning for life after graduation. This format involves individual assignments, team activities/projects, academic re-mediation, service learning and guest speakers. Reid trips may be included at least one time per term. All students will be expected to complete a job shadow and participate in the student lead Career Association. All students will complete a professional career portfolio.</td>
</tr>
</tbody>
</table>
**English I**

**Course Number:** 1000  
**Credit:** 2  
**Elective/Required:** Required  
**Prerequisite:** None  
**Grade Level:** 9  
**Course Description:** Students in English I explore the ways that audience, purpose, and context shape oral communication, written communication, and media and technology. Reading and writing include process and structure based on fiction and nonfiction.

**Honors English I**

**Course Number:** 1200  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** TAG Identified  
**Grade Level:** 9  
**Course Description:** Students in Honors English I have challenging opportunities to explore the ways that audience, purpose, and context shape oral communication, written communication, and media and technology. Reading and writing include process and structure based on fiction and nonfiction. The Honors English I course, while meeting the same standards as English I, is demonstrably more challenging. Honors courses are distinguished by a difference in the quality of the work expected rather than merely of the quantity of work required. Students create a portfolio of their work reflecting how they met the Iowa Core standards. For students not previously TAG identified, counselors/teachers may initiate the referral process, and the TAG department will complete a case study to determine placement.

**English II**

**Course Number:** 1020  
**Credit:** 2  
**Elective/Required:** Required  
**Prerequisite:** English I  
**Grade Level:** 10  
**Course Description:** Students in English II read, discuss, and write about literary and informative texts. They compare and contrast texts in different mediums and examine literature through an analytical lens. Writing instruction emphasizes text analysis and research skills.

**Honors English II**

**Course Number:** 1220  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** TAG Identified  
**Grade Level:** 10  
**Course Description:** Students in Honors English II have challenging opportunities to read, discuss, and write about literary and informative texts. They compare and contrast texts in different mediums and examine literature through an analytical lens. Writing instruction emphasizes text analysis and research skills. The Honors English II course, while meeting the same standards as English II, is demonstrably more challenging and provides multiple occasions for students to take greater responsibility for their learning. Honors courses are distinguished by a difference in the quality of the work expected rather than merely of the quantity of work required. Students create a portfolio of their work reflecting how they met the Iowa Core standards. For students not previously TAG identified, counselors/teachers may initiate the referral process, and the TAG department will complete a case study to determine placement.

**English III**

**Course Number:** 1040  
**Credit:** 2  
**Elective/Required:** Required  
**Prerequisite:** English II  
**Grade Level:** 11-12  
**Course Description:** Students in English III read, discuss, and write about literary and informative texts. They evaluate various mediums of texts and distinguish differing perspectives and points of view. Writing instruction emphasizes synthesis of research and using evidence to substantiate arguments or claims.
Honors English III
Course Number: 1240 (Sem. 1 and Sem. 2)
Credit: 2 GPA: Yes
Elective/Required: Elective Meets English III grad req.
Prerequisite: TAG Identified
Grade Level: 11
Course Description: Students in Honors English III have challenging opportunities to read, discuss, and write about literary and informative texts. They evaluate various mediums of texts and distinguish differing perspectives and points of view. Writing instruction emphasizes synthesis of research and using evidence to substantiate arguments or claims. The Honors English III course, while meeting the same standards as English III, is demonstrably more challenging and provides multiple occasions for students to take greater responsibility for their learning. Honors courses are distinguished by a difference in the quality of the work expected rather than merely of the quantity of work required. Students create a portfolio of their work reflecting how they met the Iowa Core standards.

English IV
Course Number: 1060 (Sem. 1 and Sem. 2)
Credit: 2 GPA: Yes
Elective/Required: Required
Prerequisite: English III
Grade Level: 12
Course Description: Students in English IV integrate all the language arts skills gained throughout their education. The curriculum both affirms these skills and equips the students to be life-long learners. Students continue to explore expressive, informative, argumentative, and critical contexts in both reading and writing.

AP English Language & Composition
Course Number: 1463 (Sem. 1 and Sem. 2)
Credit: 2 GPA: Yes
Elective/Required: Elective Weighted
Prerequisite: None
Grade Level: 10
Course Description: The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. Students are required to take the AP Exam.

Language Arts Support I
Course Number: 1001 (Sem. 1 and Sem. 2)
Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: Teacher Recommendation
Grade Level: 9
Course Description: This course provides instruction in basic language skills, integrating reading, writing, speaking, and listening while placing emphasis on individual student progress. Emphasis is placed on reading a wide range of self-selected fiction and nonfiction, as well as vocabulary, fluency, and comprehension strategies. Students are engaged in small group learning or individual instruction with the teacher. Students will be actively involved in book choice, goal-setting and self-monitoring as they accelerate the level at which they read. Students are identified by reading proficiency levels. This course provides identified students with an opportunity to read more efficiently in order to progress at a steady rate through high school.

AP English Literature and Composition
Course Number: 1462 (Sem. 1 and Sem. 2)
Credit: 2 GPA: Yes Weighted
Elective/Required: Elective
Prerequisite: English II, Honors English II, or AP Language and Composition
Grade Level: 11
Course Description: AP English Literature and Composition immerses students in college level comprehension, discussion, and written analysis of various literature genres. Students will read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and class discussions to assess and improve their skills. The curriculum places special emphasis on reading comprehension, structural and critical analysis of written works, vocabulary, and recognizing and understanding literary devices. Students are required to take the AP Exam.
Language Arts Support II
Course Number: 1021  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: Teacher Recommendation
Grade Level: 10
Course Description: This class focuses on modeled, effective reading and writing strategies. Instruction integrates reading, writing, speaking and listening. Pre-assessment and differentiated instruction provides a classroom structure that supports time, choice, response, and goal-setting. Students work to improve their reading and writing skills, develop cognitive comprehension and vocabulary strategies, recognize text structures, increase fluency, and conference about independent reading. Students are identified by reading proficiency levels. The strategies learned will help students master the basic skills of the English II curriculum.

Language Arts Support III
Course Number: 1041  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Elective
Prerequisite: Teacher Recommendation
Grade Level: 11
Course Description: This class focuses on modeled, effective reading and writing strategies. Instruction integrates reading, writing, speaking and listening. Pre-assessment and differentiated instruction provides a classroom structure that supports time, choice, response, and goal-setting. Students work to improve their reading and writing skills, develop cognitive comprehension and vocabulary strategies, recognize text structures, increase fluency, and conference about independent reading. Students are identified by reading proficiency levels. The strategies learned will help the student to master the basic skills of the English III curriculum.

Advanced Speech
Course Number: 1003  (Sem. 1 or Sem. 2)
Credit: 1  GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 11-12
Course Description: Following the guidelines of the Iowa High School Speech Association, students will practice and develop individual and large group communication skills. The course will provide opportunities for students to research, write, present, and critique original speeches and presentations for various audiences. Students will be encouraged to participate in extracurricular competitive IHSSA contests. Students will complete the course with an increased self-confidence in public speaking, and verbal communication skills.

Debate
Course Number: 1004  (Sem. 1 or Sem. 2)
Credit: 1  GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: This course teaches techniques of research and debate through both writing and speaking. Logic, reasoning, research, analysis, organization of thought, argumentative style and skill, and effective presentation are developed. Participation in competition is expected.

English Composition I
Course Number: 1655  (Sem. 1)
Credit: 1  GPA: Yes
Elective/Required: Elective  Weighted
Prerequisite: None  Dual Credit WITCC: ENG-105
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This course is an exploration of writing as a process with attention to audience, purpose, and patterns of exposition. Students will write a variety of essays, including times essays. The course will also deepen the students’ understanding of MLA form, grammatical errors often made in college writing, and reading for understanding.

English Composition II
Course Number: 1656  (Sem. 2)
Credit: 1  GPA: Yes
Elective/Required: Elective  Weighted
Prerequisite: English Comp. I  Dual Credit WITCC: ENG-106
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This course is a continuation of English Composition I, with an emphasis on developing more complex and sophisticated forms of expression. Students will use higher level thinking skills to focus on persuasive writing, including a research paper.

Workplace Communications
Course Number: 1663  (Sem. 2)
Credit: 1  GPA: Yes
Elective/Required: Elective  Dual Credit WITCC: COM-723
Prerequisite: None
Grade Level: 12
Course Description: This course is a study of the principles and processes of written and oral communication as applied to occupational and personal use through practical reading, writing and speaking assignments. It emphasizes technical report writing, including preparation, organization, audience and the effective use of format, supplements and visuals.
The students who are participating in the English Language Development (ELD) courses are placed based on their level of English proficiency. A student does not elect to take different proficiency levels on his or her own. Strict entry and exit criteria must be met for a student to enter the Language Instruction Educational Program, move to another level, or transition or exit the program. Students are placed in the ELD Sheltered Classes by school and ESL Department recommendation.

Graduation Requirements: English Language
Students (ELs) taking ELD courses are awarded credit in Language Arts. EL students taking ELD sheltered courses are awarded credit in Math, Science and/or Social Studies. Students who are ELD Level 3-5, with a designation of progressing, will receive English language instruction in Language Arts courses, beginning with English I as a Level 3 progressing student.

**ELD Learning Academy LIA**

Course Number: 1700  
(Sem. 1 and Sem. 2)  
Credit: 2  
GPA: Yes

Elective/Required: Required  
Prerequisite: Designation Emerging  
Grade Level: 9-12

Course Description: This class is for students who have just arrived in the United States. Topics stressed are oral language development, writing and spelling skills with focus upon seeing and building word structures in context. Students will become familiar with an American school. Self-confidence and cultural as well as school adjustments are given the utmost attention.

**ELD Learning Academy LIB**

Course Number: 1701  
(Sem. 1 and Sem. 2)  
Credit: 2  
GPA: Yes

Elective/Required: Required  
Prerequisite: Designation Emerging  
Grade Level: 9-12

Course Description: The beginning elements of reading are introduced at this level. Sight words and basic phrases are covered. High interest, beginning-level selections and novels are read.
### MATHEMATICS

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit</th>
<th>GPA</th>
<th>Elective/Required</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>5004</td>
<td>Algebra I</td>
<td>2</td>
<td>Yes</td>
<td>Required</td>
<td>No</td>
</tr>
<tr>
<td>5025</td>
<td>Principles of Algebra &amp; Geometry</td>
<td>2</td>
<td>Yes</td>
<td>Elective</td>
<td>Algebra I</td>
</tr>
<tr>
<td>5020</td>
<td>Geometry</td>
<td>2</td>
<td>Yes</td>
<td>Elective</td>
<td>None</td>
</tr>
<tr>
<td>5220</td>
<td>Honors Geometry</td>
<td>2</td>
<td>Yes</td>
<td>Elective</td>
<td>Successful completion of 8th grade algebra</td>
</tr>
<tr>
<td>5040</td>
<td>Algebra II</td>
<td>2</td>
<td>Yes</td>
<td>Elective</td>
<td>Algebra I</td>
</tr>
<tr>
<td>5240</td>
<td>Honors Algebra II</td>
<td>2</td>
<td>Yes</td>
<td>Elective</td>
<td>Completion of Geometry and Algebra</td>
</tr>
<tr>
<td>5041</td>
<td>Introduction to Applied Math</td>
<td>1</td>
<td>Yes</td>
<td></td>
<td>Grade Level: 9-12</td>
</tr>
<tr>
<td>5661</td>
<td>Applied Math</td>
<td>1</td>
<td>Yes</td>
<td></td>
<td>Grade Level: 10-12</td>
</tr>
<tr>
<td>5401</td>
<td>AP Statistics</td>
<td>2</td>
<td>Yes</td>
<td></td>
<td>Grade Level: 12-12</td>
</tr>
</tbody>
</table>

**Algebra I**

**Course Number:** 5004  
**Credit:** 2  
**Elective/Required:** Required  
**Prerequisite:** None  
**Grade Level:** 9-12  
**Course Description:** This course is designed to teach the fundamental algebraic concepts in depth. The course introduces many new abstract concepts that are vital for future math and science applications. Topics covered include integers, linear and quadratic equations, systems, graphing, and polynomials. There are many every-day applications that will keep the students challenged and engaged.

**Principles of Algebra & Geometry**

**Course Number:** 5025  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** Algebra I  
**Grade Level:** 10-12  
**Course Description:** This course combines the study of some pre-algebra and algebra topics with introductory geometry topics. This course includes the study of formulas, algebraic expressions, first-degree equations and inequalities, the rectangular coordinate system, area, perimeter, and volume of geometric figures, and properties of triangles and circles.

**Geometry**

**Course Number:** 5020  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 10-12  
**Course Description:** This course is designed to teach the concepts of Euclidean Geometry in conjunction with the application of Algebra I topics. Inductive and deductive reasoning are employed while plane and solid geometry are studied.

**Honors Geometry**

**Course Number:** 5220  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** Successful completion of 8th grade algebra  
**Grade Level:** 9  
**Course Description:** Honors Geometry is a rigorous course that applies many concepts introduced in Algebra I geared toward advanced math placement students. This course will exceed the general Geometry curriculum both in depth and breadth and also includes examination of proofs and classical constructions.

**Algebra II**

**Course Number:** 5040  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** Algebra I  
**Grade Level:** 9-12  
**Course Description:** This course introduces new concepts, builds on those introduced in Algebra I, and is geared for the college bound student. An understanding of linear, quadratic, exponential, and square root functions is emphasized. Other topics include linear programming, matrices, complex numbers, rational expressions, and conic sections.

**Honors Algebra II**

**Course Number:** 5240  
**Credit:** 2  
**Elective/Required:** Elective  
**Prerequisite:** Completion of Geometry and Algebra  
**Grade Level:** 9-10  
**Course Description:** Honors Algebra II is a rigorous course that continues the concepts introduced in Algebra I and introduces many new concepts. This course will exceed the general Algebra II curriculum both in depth and the pace in which the material is covered. Topics covered include probability and statistics, sequences and series, trigonometry, recursion, induction, and technology applications.
Introduction to Applied Math
Course Number: 5041 (Sem. 1)  Credit: 1 GPA: Yes
Elective/Required: Elective
Prerequisite: Teacher Recommendation
Grade Level: 11-12
Course Description: This course covers all fundamental arithmetic concepts and more routine algebraic operations in preparation for the Applied Math course. This course is intended for students who are seeking a CTE certificate.

Applied Math
Course Number: 5661 (Sem. 2) Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: MAT-772
Prerequisite: Introduction to Applied Math
Grade Level: 11-12
Course Description: This course covers all fundamental arithmetic concepts and more routine algebraic operations. Arithmetic concepts are fractions, percentages, graphing, decimals, ratios, word problems, metrics, areas, and volumes. Algebraic work includes solving simpler equations, proportions, and formula rearrangement. This course meets a CTE math req. for many certificate programs at WITCC.

Discrete Mathematics
Course Number: 5008 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: Geometry and Algebra II
Grade Level: 10-12
Course Description: This course includes the study of topics such as number theory, discrete probability, set theory, symbolic logic, Boolean algebra, combinatorics, recursion, basic algebraic structures and graph theory.

Pre-Calculus
Course Number: 5009 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: Geometry and Algebra II
Grade Level: 10-12
Course Description: This course is a college preparatory course that includes topics in trigonometric functions, inverses, and equations. Topics also include right triangle trigonometry, law of sines and cosines, trigonometric identities, and applications. Other topics taught include polar coordinates, complex numbers, conic sections, exponential and logarithmic functions, binomial theorem, and arithmetic and geometric sequences and series.

Calculus with Analytical Geometry
Course Number: 5012 (Sem. 1) Credit: 1 GPA: Yes
Elective/Required: Elective
Prerequisite: Pre-Calculus
Grade Level: 11-12
Course Description: This course introduces the basics of limits, differential and integral calculus, and their applications. Topics include the slope of a curve, the rate of change of a function, properties of limits, derivatives of algebraic and trigonometric functions, extrema, the Mean Value Theorem, integration, area and volume.

Calculus I
Course Number: 5669 (Sem. 2) Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: MAT-211
Prerequisite: Calculus with Analytic Geometry
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This course is a review of analytic geometry and functions; a study of limits, continuity, differentiation, and integration. There is an emphasis on theory, applications, and computer use throughout the course.

Advanced Calculus
Course Number: 5022 (Sem. 1) Credit: 1 GPA: Yes
Elective/Required: Elective
Prerequisite: Calculus I
Grade Level: 11-12
Course Description: This course is a continuation of Calculus I. The course deals with techniques of integration, series, analytic geometry, vectors and quadric surface. Techniques of integration will cover integration by parts, trigonometric integral and substitutions, integrating rational functions by partial fractions, using tables of integrals and improper integrals. Infinite series will include Taylor, Maclaurin, Alternating and power series, convergence, comparison, ratio and root tests.
Calculus II
Course Number: 5695  (Sem. 2)
Credit: 1
Elective/Required: Elective
Prerequisite: Calculus I
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: Calculus II is a continued study of integration along with a study of transcendental functions, numerical methods, indeterminate form, improper integration sequences and series, conics, and polar coordinates. There is an emphasis on theory, applications, and computer use throughout the course.

AP Statistics
Course Number: 5401  (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Elective
Prerequisite: Algebra II
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:
1. Exploring Data: Describing patterns and departures from patterns.
2. Sampling and Experimentation: Planning and conducting a study.
3. Anticipating Patterns: Exploring random phenomena using probability and simulation.
Students are required to take the AP Exam.

Elapsed Mathematics
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5700</td>
<td>ELD Math</td>
</tr>
<tr>
<td>5704</td>
<td>ELD Algebra I</td>
</tr>
<tr>
<td>5725</td>
<td>ELD Principles of Algebra &amp; Geometry</td>
</tr>
</tbody>
</table>

ELD Math
Course Number: 5700  (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Required
Prerequisite: Designation Emerging or Progressing
Grade Level: 9-12
Course Description: This course is designed for EL students who have just arrived in the United States. The student’s program is individualized. Both language and math skills are taught using materials at the student’s instructional level.

ELD Algebra I
Course Number: 5704  (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Required
Prerequisite: Designation Emerging or Progressing
Grade Level: 9-12
Course Description: This course is designed to teach fundamental algebraic concepts in depth. The course introduces many new abstract concepts in ways that are comprehensible to students who are developing language skills in English. Topics covered include integers, linear and quadratic equations, systems, graphing, and polynomials. There are many every-day applications that will keep the students challenged and engaged.

ELD Principles of Algebra & Geometry
Course Number: 5725  (Sem. 1 and Sem. 2)
Credit: 2
Elective/Required: Elective
Prerequisite: Designation Emerging or Progressing
Grade Level: 10-12
Course Description: This course covers all fundamental arithmetic concepts and more routine algebraic operations.
**PHYSICAL EDUCATION**

**PHYSICAL & HEALTHY EDUCATION**
Course Number: 6019 / 6029  
(Sem. 1 and Sem. 2)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 9  
Course Description: Students enrolled in Physical & Healthy Education will gain the knowledge and skills needed to lead healthy lifestyles. Students will participate in physical fitness activities to promote lifelong moving as well as focus on personal, social, and emotional healthy. This course meets the state Health Standards.

**PHYSICAL EDUCATION**
Course Number: 6011 / 6012  
(Sem. 1 and Sem. 2)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 10-12  
Course Description: Students enrolled in Physical Education will experience a diverse educational program that allows students to experiment in and enjoy physical activity with a goal to become more fit and to obtain healthy lifetime fitness habits. This course includes physical fitness activities that increase cardiovascular endurance, muscular strength and flexibility, sports and games, rhythm and dance, water safety and leisure, and lifetime activities.

**TOTAL WELLBEING**
Course Number: 6006-6007  
(Sem. 1 and Sem. 2)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 9-12  
Course Description: This course is designed for those students who have previous experience in strength training. In this course, students will be developing individualized conditioning programs for lifetime fitness. Students will also engage in activities that benefit cardiovascular endurance, agility, speed, quickness, plyometrics, flexibility development, and health and wellness related issues that affect their individual development. This class offers a high level of intensity for those students who want to improve their overall fitness level.

**SCHOOL-TO-WORK**

**Work Experience**
Course Number: X005  
Credit: 1-6  
Elective/Required: Elective  
Prerequisite: Permission of building principal, counselor, and School-to-Work Coordinator.  
Grade Level: 12  
Course Description: This is for students in danger of not earning 44 credits within four years. Earn a maximum of six elective credits on a Pass/Fail basis. Number of credits earned is subject to review by Counselors. Students must provide written documentation of hours worked. 180 hours = 1 credit.

**Internship**
Course Number: X028  
Credit: 1-6  
Elective/Required: Elective  
Prerequisite: Permission of building principal, counselor, and School-to-Work Coordinator.  
Grade Level: 12  
Course Description: The Internship Program is available for juniors and seniors who are interested in participating in career experiences while still in high school. Students are able to earn academic credit while exploring careers in all Pathways. Internship assignments made under this course are arranged with the Counselors.
## SCIENCE

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Credit</th>
<th>GPA</th>
<th>Elective/Required</th>
<th>Prerequisite</th>
<th>Grade Level</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7000</td>
<td>Biology I</td>
<td>2</td>
<td></td>
<td>Required</td>
<td>None</td>
<td>9-12</td>
<td>This course includes the study of living organisms. It develops an understanding of structure, function, and ecological principles in the living world. Inquiry laboratory work is emphasized as an important part of biological science. The units of study include: Molecules to organisms, heredity, biological evolution and ecosystems.</td>
</tr>
<tr>
<td>7004</td>
<td>Physical Science</td>
<td>2</td>
<td>Yes</td>
<td>Elective</td>
<td>None</td>
<td>10-12</td>
<td>This course includes the study of the structures and states of matter. This is a survey course that includes such topics as motion, energy, forces, wave phenomenon, and physical and chemical interactions. To meet graduation requirements, Chemistry and Physics could replace the Physical Science requirement.</td>
</tr>
<tr>
<td>7023</td>
<td>Chemistry</td>
<td>2</td>
<td></td>
<td>Elective</td>
<td>Algebra I</td>
<td>9-12</td>
<td>Chemical aspects of matter and energy are studied through discussion and laboratory experiments. Laboratory observations and measurements lead to the development of chemical principles. Some descriptive and historical chemistry is included. A course in Chemistry is recommended by many colleges and universities as one of the lab courses students should take in their high school careers.</td>
</tr>
<tr>
<td>7040</td>
<td>Physics I</td>
<td>2</td>
<td></td>
<td>Elective</td>
<td>Algebra I</td>
<td>9-12</td>
<td>Physics provides a perspective of the laws that govern the universe. It is an investigative laboratory program based on the study of matter and energy. The course emphasizes the study of motion and its causes, sounds, light, electricity and magnetism. The purpose of this course is to give students a broad understanding of problem solving to develop basic proficiencies in lab skill and techniques, and to stimulate further study. The nature of the laws of physics will be covered through reading, class discussion, mathematical analysis, teacher explanation and laboratory experience.</td>
</tr>
<tr>
<td>7005</td>
<td>Earth &amp; Space Science</td>
<td>2</td>
<td></td>
<td>Elective</td>
<td>None</td>
<td>10-12</td>
<td>Earth and Space Science is a laboratory-oriented course, which can be used to satisfy the science requirement for many colleges. Students will investigate the various aspects of the earth and space. Areas of study include the study of maps, minerals and rocks, fossils, weathering, erosion, soil, surface water, human impact on earth, plate tectonics, earthquakes, earth’s atmosphere, and astronomy topics including the sun, moon, stars, galaxies and the universe.</td>
</tr>
</tbody>
</table>
Field Biology
Course Number: 7021 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: Biology I
Grade Level: 10-12
Course Description: Field Biology consists of the identification and study of common organisms found on the school campus and various ecosystems common to the Iowa region. Indoor and outdoor hands-on laboratory activities are performed to show how organisms adapt to live within their habitats. Understanding how each organism is unique and how it fits into its habitat is essential to understanding the fascinating world existing at our doorstep. Laboratory work will include specimen collection techniques, use of taxonomic keys, use of soil and water quality analysis equipment, and ecological field methods. This experience will include Hunter Safety Education, Winter Survival, and the effects of man on the environment.

Biology II Laboratory
Course Number: 7020 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: Biology I
Grade Level: 10-12
Course Description: Biology II Laboratory applies principles presented in Biology I. Special topics include biotechnology and comparative anatomy with dissections. The course is laboratory oriented and the material covered is college preparatory in nature.

AP Biology
Course Number: 7421 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes, Weighted
Elective/Required: Elective
Prerequisite: Biology I and Chemistry
Grade Level: 11-12
Course Description: AP Biology is designed to be taken by students after the successful completion of high school biology and chemistry. This course will provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Students are required to take the AP Exam.

AP Chemistry
Course Number: 7425 (Sem. 1 and Sem. 2) Credit: 4 GPA: Yes, Weighted
Elective/Required: Elective
Prerequisite: Chemistry
Grade Level: 11-12
Course Description: Advanced Placement Chemistry provides an orderly development of the fundamental concepts and principles of chemistry with an emphasis on inquiry and critical thinking skills including: Problem solving, mathematical reasoning, and experimental investigations. Topics of study include: Structure of matter, states of matter, chemical kinetics, thermochemistry and thermodynamics, and descriptive chemistry. A strong emphasis is placed on chemical equilibrium, acids and bases, and chemical reactions. Laboratory work is an integral component of this course. The course requires a working knowledge of chemistry and second-year algebra. The pace and depth of material covered exceeds the standard high school chemistry course, as does the college-level textbook. Students are required to take the AP Exam.

AP Environmental Science
Course Number: 7422 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes, Weighted
Elective/Required: Elective
Prerequisite: Biology I and Physical Science or Chemistry
Grade Level: 11-12
Course Description: The goal of the AP Environmental Science course is to provide students with the scientific principles and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine solutions for resolving or preventing them. Students are required to take the AP Exam.

College Physics I
Course Number: 7623 (Sem. 1) Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: PHY-162
Prerequisite: 6 credits of science and Algebra I
Grade Level: 11-12
Proficiency Required: ISASP
Course Description: This is a combined lecture and lab course. Topics include forces acting on bodies and their relationship to friction, motion, momentum, work, and energy in the field of mechanics; fluid mechanics, heat and thermodynamics, wave motion, and sound.
College Physics II
Course Number: 7624  (Sem. 2)
Credit: 1  GPA: Yes
Elective/Required: Elective  Dual Credit WITCC: PHY-172
Prerequisite: College Physics I  Weighted
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This is a combined lecture and lab course. It is a continuation of College Physics I. Topics include optics, electricity and magnetism, introduction to quantum physics and relativity, and nuclear and particle physics.

Human Anatomy & Physiology I
Course Number: 7619  (Sem. 1)
Credit: 1  GPA: Yes
Elective/Required: Elective  Dual Credit WITCC: BIO-168
Prerequisite: Biology I and Chemistry; or ACT  Weighted
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This course is a combination of lecture and lab work. It explores the relationship between structure, function and homeostasis in the human body. It covers the skeletal, muscular, integumentary and nervous systems, as well as cytology and histology.

Human Anatomy & Physiology II
Course Number: 7621  (Sem. 2)
Credit: 1  GPA: Yes
Elective/Required: Elective  Dual Credit WITCC: BIO-173
Prerequisite: Human Anatomy & Physiology I  Weighted
Grade Level: 11-12
Proficiency Required: ISASP or ACT
Course Description: This combination of lecture and lab work is a continuation of Anatomy & Physiology I. The topics studied include the structure and function of the cardiovascular, lymphatic, endocrine, respiratory, digestive, urinary, and reproductive systems.

ELD Science

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ELD Biology
Course Number: 7701  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Required
Prerequisite: Designation Emerging or Progressing L1, L2
Grade Level: 9-12
Course Description: This science core course has been designed for EL students. Topics covered include: plants, the human body, physical science topics, animals, and the universe. Extensive use of visual conceptualization, basic beginning laboratory methods, and field investigation procedures are utilized.

ELD Physical Science
Course Number: 7704  (Sem. 1 and Sem. 2)
Credit: 2  GPA: Yes
Elective/Required: Required
Prerequisite: Designation Emerging or Progressing L1, L2
Grade Level: 9-12
Course Description: This science core course has been designed for EL students. Topics covered include: motion, energy, forces, wave phenomenon, and physical and chemical Interactions.
**American Government**

**Course Number:** 8002  
(Sem. 1 or Sem. 2)  
**Credit:** 1  
**GPA:** Yes  
**Elective/Required:** Required  
**Prerequisite:** None  
**Grade Level:** 10-12  

**Course Description:** This course is a study of the origins, development, structure, and functions of the American national government. Topics include the constitutional framework; federalism; the three branches of government, including the bureaucracy; civil rights and liberties; political participation and behavior; and policy formation. Basic concepts of state and local government and their relationships with the federal government will be examined. Local issues, as well as those around the world, and how our government policies affect how we live will be studied.

**Economics**

**Course Number:** 8003  
(Sem. 1 or Sem. 2)  
**Credit:** 1  
**GPA:** Yes  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 10-12  

**Course Description:** This course will help students acquire the tools and skills necessary to apply the best problem-solving, decision-making strategies to future situations as consumers. The course focuses on understanding the working of the American economy and our role in the global market place. Micro and macroeconomics, in addition to constantly changing international economics, are studied in depth.

**AP U.S. Government & Politics**

**Course Number:** 8419  
(Sem. 1 and Sem. 2)  
**Credit:** 2  
**GPA:** Yes  
**Elective/Required:** Elective  
**Prerequisite:** None  
**Grade Level:** 11-12  

**Course Description:** The Advanced Placement course in United States Government and Politics is designed to give students a critical perspective on politics and government. This course involves both the study of general concepts used to interpret United States politics and an examination of the various institutions, groups, beliefs, and ideas that make up American politics. The course is taught with college-level texts. Students are required to take the AP Exam.
Sociology
Course Number: 8020 (Sem. 1 or Sem. 2) Credit: 1 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: Sociology is the scientific study of the social relations, which people develop in their interactions with one another. Special attention is given to the causes and consequences of these interactions within the frameworks of group, social, and cultural environments. Applying social theory to the study of social issues, the course examines such topics as life styles, role identities, life crises, cultural and social environments, and social deviancy. The course will help students understand how personal, cultural, social and psychological attitudes towards self and others affect our society.

Psychology
Course Number: 8021 (Sem. 1 or Sem. 2) Credit: 1 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 10-12
Course Description: In psychology, many of the factors that influence human behavior are examined. Students should gain a basic understanding of why individuals behave as they do and how behavior can be influenced. Several topics of practical value are studied: behavior modification, human growth and development, stress and its consequences, mental illness and mental health, human relations, motivation, personality theory and personality development. Additional units of special interest may be included.

AP Psychology
Course Number: 8418 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 11-12
Course Description: The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub-fields within psychology. They also learn about the methods psychologists use in their science and practice. Students are required to take the AP Exam.

AP American History
Course Number: 8423 (Sem. 1 and Sem. 2) Credit: 2 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 11-12
Course Description: This yearlong course is a survey study equivalent to the demands of an introductory college course in United States History. It expands on the content of American History. Special emphasis is on the period from the colonial period to the present; in-depth consideration by means of a chronological or topical approach or a combination of the two; and political, social, economic, and cultural treatment of the period. Students will use and analyze primary sources, evaluate the evidence and interpretations as presented by historical research. Students are required to take the AP Exam.

World Cultures
Course Number: 8004 (Sem. 1 or Sem. 2) Credit: 1 GPA: Yes
Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: This course will help students understand world cultural diversity, especially cultural change and diversity occurring in our community. Students will learn about the history and traditions, geography, economics and daily life, and the literature and the arts of cultural groups located throughout the world and in our community. The course will enable students to learn how diverse races and cultural traditions, beliefs, lifestyles and value systems can enrich their lives, directly and indirectly.

U.S. History to 1877
Course Number: 8622 (Sem. 1 or Sem. 2) Credit: 1 GPA: Yes
Elective/Required: Elective Dual Credit WITCC: HIS-151
Prerequisite: None
Grade Level: 11-12
Proficiency Required: ISASP
Course Description: This course is an introduction to the basic people, issues, movements, and events which shaped the American experience from Pre-Columbian times to the Civil War and Reconstruction.
U.S. History Since 1877
Course Number: 8623   (Sem. 1 or Sem. 2)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 11-12  
Proficiency Required: ISASP  
Course Description: This course surveys the basic forces and events that shaped American life from the Reconstruction era to the present.

Western Civilization II - Early Modern to Present
Course Number: 8621   (Sem. 1 or Sem. 2)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: World History  
Grade Level: 11-12  
Proficiency Required: ISASP  
Course Description: This course surveys Western history from the age of European exploration to the present.

AP European History
Course Number: 8424   (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Elective  
Prerequisite: None  
Grade Level: 10-12  
Course Description: This course will enhance a student’s understanding of European history, years 1450 to present. It concentrates on areas of the historical, political, social, economic, cultural and intellectual past of Europe and its impact on Western Civilization. These areas are studied from a variety of perspectives in order to provide a balanced view of history. Students are required to analyze, synthesize, and evaluate historical sources, in addition to memorizing facts. All these skills will be applied toward writing free-responses, essays, and class discussions. This course requires a rigorous amount of reading, writing, and demands higher-order thinking skills. Students are required to take the AP Exam.

Next Generation Personal Finance
Course Number: 8010   (Sem. 1 or Sem. 2)  
Credit: 1  
Elective/Required: Required  
Prerequisite: None  
Grade Level: 9-12  
Course Description: This course fulfills the financial literacy requirement and includes topics of 21st Century skills in finance. Students explore careers, taxes, checking, saving, and paying for college. This course provides students with information about credit, investing, insurance, and budgeting.

ELD SOCIAL STUDIES
8700   ELD American History  2  
8701   ELD World History  2

ELD American History
Course Number: 8700   (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Required  
Prerequisite: Designation Emerging or Progressing  
Grade Level: 9-12  
Course Description: ELD American History teaches concepts and major themes through the 20th century. Maps, charts, and conceptualized learning are used to teach this course in a manner which will be accessible to students who still lack the language skills necessary to take the general education American History class.

ELD World History
Course Number: 8701   (Sem. 1 and Sem. 2)  
Credit: 2  
Elective/Required: Required  
Prerequisite: Designation Emerging or Progressing  
Grade Level: 10-12  
Course Description: This class offers a broad study of the major civilization of people, beginning with prehistoric people and moving through the period of the beginning of Modern Europe. This class is structured to fit the learning styles of EL students by examining the political, economic, social, and cultural accomplishments of the various civilizations.

TRAFFIC EDUCATION
X000   Traffic Education  1

Traffic Education
Course Number: X000   (Summer only)  
Credit: 1  
Elective/Required: Elective  
Prerequisite: Students must possess a valid Learners Permit. Fee must be paid before first class. Students will be registered on a first come, first-served basis.  
Grade Level: 9-12  
Course Description: This course is offered at all three high schools during the summer only. It is comprised of three parts: classroom instruction, behind-the-wheel instruction, and logged behind-the-wheel practice driving time with parents or guardians. Students must pass all parts to satisfactorily complete the course. Students passing the course will receive a certificate of completion enabling them to apply for their Iowa Driver’s license before age 18. Fees are listed in Board Policy #602.6.
Spanish I
Course Number: 3011  (Sem. 1 and Sem. 2)  GPA: Yes
Credit: 2  Elective/Required: Elective
Prerequisite: None
Grade Level: 9-12
Course Description: The main objective of this course is to develop the student’s skills in listening comprehension, speaking, reading, and writing. Emphasis is placed on learning vocabulary and structure. Students use Spanish orally through group work and in reading and writing. Various forms of media and technology are used to expose students to native speakers and culture of the Spanish-speaking world.

Spanish II
Course Number: 3031  (Sem. 1 and Sem. 2)  GPA: Yes
Credit: 2  Elective/Required: Elective
Prerequisite: Successful completion of Spanish I
Grade Level: 9-12
Course Description: Spanish II is a continuation of Spanish I. Its goal is to maintain and improve the skills acquired in first year Spanish with a continued emphasis on listening, comprehension, speaking, reading, and writing. Conversational skills are expanded through additional study of structures and vocabulary. Various forms of media and technology continue to be used.

Spanish III
Course Number: 3051  (Sem. 1 and Sem. 2)  GPA: Yes
Credit: 2  Elective/Required: Elective
Prerequisite: Successful completion of Spanish II or DC program
Grade Level: 9-12
Course Description: Students learn additional conversational techniques and build upon basic knowledge. Knowledge of Spanish speaking countries continues to develop. There is an emphasis on increasing ability to sustain conversations and interact socially. Class is conducted in Spanish as often as possible and reading/writing play a larger role. Various forms of media and technology are again used.

Spanish IV
Course Number: 3071  (Sem. 1 and Sem. 2)  GPA: Yes
Credit: 2  Elective/Required: Elective
Prerequisite: Successful completion of Spanish III
Grade Level: 10-12
Course Description: Spanish IV provides a review and extension of material previously studied. This course uses authentic text and audio selections to expand vocabulary acquisition and written and verbal communication in Spanish. Students will be expected to analyze and discuss authentic readings in Spanish literature. Spanish is used extensively in class.

AP Spanish Literature & Culture
Course Number: 3401  (Sem. 1 and Sem. 2)  GPA: Yes
Credit: 2  Elective/Required: Elective
Prerequisite: Successful completion of Spanish III
Grade Level: 10-12
Course Description: This course is designed to provide students with a learning experience equivalent to that of an introductory college course in literature written in Spanish. The course provides opportunities for students to demonstrate their proficiency in Spanish across the three modes of communication (interpersonal, interpretive, and presentational) and the five goal areas of communication, cultures, connections, comparisons, and communities. Students are required to take the AP Exam.

AP Spanish Language & Culture
Course Number: 3402  (Sem. 1 and Sem. 2)  GPA: Yes
Credit: 2  Elective/Required: Elective
Prerequisite: Successful completion of Spanish III
Grade Level: 10-12
Course Description: This course takes a holistic approach to language proficiency. Students should learn language structures in context and use them to convey meaning. This course promotes fluency and accuracy in the language. This course is taught entirely in Spanish. Students are required to take the AP Exam. Upon completion of the requirements for AP Spanish Language and Culture, and a score of 3 or higher on the AP Spanish Language and Cultural exam, as well as proficiency on the Reading Iowa Statewide Assessment of Student Progress (ISAP), students will be awarded the Seal of Biliteracy on their diploma.
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