



COURSE DESCRIPTION GUIDE

FOR

OGDEN HIGH SCHOOL

2023-2024

NOTICE OF NONDISCRIMINATION

Students, parents, employees and others doing business with or performing services for the Ogden Community School District are hereby notified that this school district does not discriminate on the basis of race, color, age (except students), religion, national origin, creed, sex, marital status, sexual orientation, gender identity or disability in admission or access to, or treatment in, its programs and activities.

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

Maury Ruble
Principal, Ogden High School
732 West Division Street
Ogden, Iowa 50212
515 275 4034

who has been designated by the school district to coordinate the school district's efforts to comply with the regulations implementing Title VI, Title VII, Title IX, the ADA, § 504 and *Iowa Code* § 280.3

Dear Students and Parent(s)/Guardian(s):

The 2023-2024 Ogden High School Course Description Guide is designed to assist you as you make course selections that will affect your future.

There are two major steps involved in planning your high school educational program:

1. Student registration
2. Course scheduling

It is very important that good course selections be made during registration as the number of seats in any given course are determined by the original count. Thus, after the initial registration process, some classes may be filled, while others, due to lack of registrants, might not be offered. Once we determine our course offerings and staff needs, we are committed; schedule changes will be very difficult, if not impossible to accommodate.

Please consider interests, aptitudes, and educational goals before selecting the course. Students are encouraged to contact the counselor with any questions or concerns. The selection of courses is a very important part of any student's education. The decisions made today can have a definite impact upon educational and career plans.

- Students must carry a minimum course load of six (6) classes plus PE each semester. *Seniors on track for graduation may be considered an exception to this requirement.*
- 48 credits are required for graduation (4 years English, 3 years of math, 3 years of science, and 3 years of social studies);
- Some courses have prerequisites which must be completed prior to enrolling
- Families and students are responsible to understand the entrance requirements for any post-secondary programs. The counselor is a great resource to gain more information on the requirements of post-secondary programs.

If you have questions about registration procedures or your specific educational plan, please contact the counselor.

Good luck with the registration process and best wishes for a great school year!

Sincerely,

Maury Ruble, Principal

Teela Wilmes, Counselor

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REQUIREMENTS, GUIDELINES, AND TIPS

Graduation Requirement

- Ogden Community School District requires 48 credits for high school graduation, as adopted by the Ogden school board. One (1) credit is awarded for each passing grade in a class that meets every day of the week for a period of one semester (18-weeks).
- Language Arts (8 Credits), Math (6 Credits), Science (6 Credits) *must include Biology*, Social Studies (6 Credits), *must include American History and American Government*, Physical Education (4 Credits), Workplace Readiness (2 Credits), and Electives (16 Credits) = Total Credits 48

Cardiopulmonary Resuscitation Course Completion Requirement Iowa Code 256.7 (5), 12.5 (20)

Subject to the provisions of sub rule 12.5(6)a, at any time prior to the end of twelfth grade every pupil physically able to do so shall have completed a psychomotor course that leads to certification in cardiopulmonary resuscitation. A school or school district administrator may waive this requirement for any pupil who is not physically able to complete the course. A course that leads to certification in CPR may be taught during the school day by either a school or school district employee or by a volunteer, as long as the person is certified to teach a course that leads to certification in CPR. In addition, a school or school district shall accept certification from any nationally recognized course in cardiopulmonary resuscitation as evidence that this requirement has been met by a pupil. A school or school district shall not accept auditing of a CPR course, nor a course in infant CPR only.

Registration Procedures

1. Please take time to read this course description guide carefully. Course offerings may change from year-to-year so you will want to make sure you are updated on specific details in each.
2. A great deal of planning is done based upon your choices. We ask that you register carefully for classes.
3. Schedule changes will only be allowed with administrative approval. Please see "Schedule Changes" for dropping or adding a course.
4. Questions related to scheduling should be directed to the school counselor.

Note to Students/Parents

Due to various internal and external factors that may occur after printing this registration guide, please consider the process of student registration a fluid one. Changes in

personnel, federal and state requirements, and budgetary constraints are all factors that force the guidance department and/or principal's office to make changes during the process. This may include altering, adding, or dropping course offerings that are listed in this registration guide. We appreciate your patience and understanding.

To accommodate all persons, the high school office will release addendums, when appropriate, to supplement this guide to registration. Those addendums will be announced to students and published on the high school's website.

Schedule Changes

When requesting a schedule change, please keep in mind that the master schedule is developed by the number of course selections identified by students during the registration process. School administrators make decisions regarding the number of sections per department based on students' course selections. For those reasons, we ask that students please be wise when initially registering and inputting their course requests. The following outlines our policy on schedule changes.

After the initial registration and scheduling that takes place, student schedule changes may only be made according to ONE the following criteria:

1. Approved level changes by the parent, teacher or counselor.
2. Failure in first or second semester course(s).
3. Computer and/or clerical error. Students may look at their original requests with the counselor.
4. Special education placement.
5. Failure to meet a course prerequisite.
6. Seniors who must enroll in a course to meet graduation requirements.
7. Wanting to add a course without disturbing the rest of the master schedule.

All schedule changes must be made prior to the beginning of the term with the student's counselor. Approval by parent, teacher, or counselor is necessary for any addition/deletion of a course.

Senior Year Plus

Enacted by the Iowa Legislature, Senior Year Plus was created to provide increased and more equal access to college credit courses (<https://educateiowa.gov/adult-career-comm-college/senior-year-plus>). Courses delivered through Senior Year Plus provide students the opportunity to take a rigorous college curriculum and receive, in many cases, both high school and college credit concurrently. At Ogden High School joint-enrolled courses may include:

- Concurrent Enrollment Courses (those receiving college & high school credit).
- Online Career Academy
- Hunziker Career Academy courses (at DMACC)
- On-site college-level courses, including Advanced Placement (AP) courses.

The state guidelines require all students enrolling in Senior Year Plus eligible courses to be proficient in reading, math, and science as assessed through the Iowa Assessment battery of tests. In addition, if a student wishes to drop the DMACC credit portion of the aforementioned classes, the student must also drop the OHS credit. If this date is beyond the OHS official drop date each semester, the student will receive an 'F' for the OHS credit portion. (may need to add another class to remain at full-time status).

State Approved Criteria Ensuring Reading, Math and Science Proficiency as required by Senior Year Plus (SYP)

1. Testing:
 - a. The student shall satisfy admissions placement and/or entrance requirements established by the postsecondary institution, or
 - b. Complete the ACT or SAT assessment (or other college readiness exam). Acceptable placement scores should be established by the postsecondary institution and applicable to the intended course enrollment (discipline/subject specific), or
 - c. Have a RIT score equivalent to the 41st percentile or higher (rating of average) on most recent administered Measure of Academic Progress (MAP) test and applicable to the intended course enrollment (discipline/subject specific).
2. Proficiency in the corresponding content area on most recent administration of the statewide assessment.
 - a. Example: If the student tested proficient in English language arts, but not math or science – the student would be eligible to access humanities and social/behavioral science coursework but not STEM.
3. Individual review of student transcripts. Does the student show progress in improvement in coursework? Are grades improving over time? Evaluation of a student's transcript may be reviewed in entirety or may be evaluated within a specific discipline or subject area.
4. Coursework:
 - a. The student shall have previous high school course performance of a "C" or higher linked to the intended college course enrollment (discipline/subject specific), or
 - b. Student success in prior concurrent enrollment coursework of a "C" or

- higher (inclusive of all successes; including CTE coursework), or
 - c. The student's coursework may be assessed as proficient by the high school counselor or team of faculty/staff using a related coursework portfolio, or
 - d. Proficiency in previous corresponding high school coursework based on a standards-based grading system, this would be a score of a "3" or "4" which indicates proficiency in most standards-based grading systems.
5. Grade Point Average (GPA):
- a. The student's GPA shall show improvement over time versus a certain point on a four-point scale, or
 - b. Have a high school GPA of 2.0 in the corresponding discipline or subject area, or
 - c. Have a cumulative high school GPA of 2.0, or d. Utilize the GPA established by the postsecondary institution which reflects that of traditionally admitted first-time freshmen within the corresponding discipline or subject area.

DMACC Concurrent Credit Courses at Ogden High School

The courses listed below are offered to 9-12 grade students at Ogden High School for both Ogden High School and Des Moines Area Community College (DMACC) credit. Students taking these classes must register for DMACC credit. This is at no expense to the student. Students taking DMACC credit will be generating a college transcript while attending high school. All students taking a college class at Ogden High School will take the final exam.

| Ogden High School Course Title | DMACC Course Number | DMACC Credits |
|---------------------------------------|----------------------------|----------------------|
| DMACC Calculus I | MAT 211 | 5 Credits |
| DMACC Communication Skills | COM 703 | 3 Credits |
| DMACC Statistics | MAT 157 | 4 Credits |
| DMACC Composition I | ENG 105 | 3 Credits |
| DMACC Composition II | ENG 106 | 3 Credits |

DMACC Career Academy Courses at Hunziker Center-Ames

The programs listed below are available to Ogden High School 9-12 grade students, with priority given to juniors and seniors who qualify. Students must be able to transport themselves to campus. Courses in each area are offered on site at the Hunziker Career Center in Ames.

<https://www.dmacc.edu/careeradvantage/Pages/cadmaccclasses.aspx>

| Career Advantage Programs Offered at Hunziker-Ames | | |
|---|-----------------|----------------------------------|
| Auto Collision Technology | Auto Technology | Building Trades/Finish Carpenter |
| Criminal Justice | Culinary Arts | Health Occupations |
| *SCALE Program | Teacher Academy | Welding (Nevada HS) |

SCALE draws upon the expertise of business partners to bring real world applications into the comprehensive high school experience. Through a collaboration of education, business, and industry, the SCALE program seeks to develop highly skilled and adaptable innovators and leaders. With inquiry-based learning and authentic projects and experiences, students add value to business partners while exploring passions and career possibilities identified by economic trends in Story County. Students will do a combination of classroom work and work-based internship-type experience.

- Multi-Disciplinary Engineering
 - Health and Human Services
 - Business Communication and Technology
 - Renewable Energy and Bio-Sciences

DMACC Career Academy Courses at Van Kirk Center- Perry

The programs listed below are available to Ogden High School 9-12 grade students, with priority given to juniors and seniors who qualify. Students must be able to transport themselves to campus. Courses in each area are offered on site at the Van Kirk Career Center in Perry.

| Career Advantage Programs Offered at Van Kirk Center- Perry | | |
|--|------------------------------------|--------------------------------|
| Academic Courses | Health Occupations | Applied Engineering Technology |
| Criminal Justice | Emergency Medical Technician (EMT) | Computer Programming (Virtual) |
| Teacher Academy | Welding | |

Online Courses

Online, college-level courses may be completed by 9-12 grade students who wish to expand their knowledge-base and/or explore curricular areas not offered at Ogden High School. Students can take online Advanced Placement (AP) courses offered by the Belin-Blank Center at the University of Iowa or online courses offered through Des Moines Area Community College (DMACC).

<https://www.dmacc.edu/online/Pages/careeracademy.aspx>

Entrance to Iowa Regents Institutions

The Regent Admission Index combines factors that strongly predict success at regent universities: ACT or SAT test score, high school cumulative grade-point average, and the number of completed high school core courses.

Iowa high school graduates 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.

Students who don't achieve a Regent Admission Index score of 245, but who otherwise demonstrate potential and commitment to succeed at a Regent University, may be offered admission after an individual review of their application.

[Freshman admission requirements to Iowa regent schools](#)
[RAI approved SCED codes](#)

Athletic Eligibility

All students planning to enroll in college as a freshman and wanting to participate in Division I or Division II athletics must be certified by the NCAA Eligibility Center (formerly called the NCAA Clearinghouse). The Eligibility Center was established to ensure consistent application of NCAA initial-eligibility requirements for all prospective student athletes at all member institutions. It is the responsibility of the prospective student athlete to make sure the Eligibility Center has the documents it needs to certify his/her eligibility.

A student may apply to the NCAA Eligibility Center at any time during his/her high school years. However, it is recommended the student apply prior to taking the ACT or SAT exam. This application, and additional information, may be completed online at

[NCAA Eligibility Center](#). The NCAA Eligibility Center does not require ACT/SAT scores; however, certain colleges/universities do. Students will need to check with the school they plan on attending. The NCAA Eligibility Center institution code is 9999. All prospective student-athletes need to work with their school counselors and carefully plan their schedules each year to ensure NCAA eligibility. The NCAA eligibility rules and list of acceptable courses often change. It is the responsibility of the student to seek out the necessary information to make course selection decisions.

Division I 16 Core-Course Rule

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 or non-doctrinal religion/philosophy).
- Students must complete 10 of the core courses by the end of their junior year (before the start of seventh semester). Seven of the 10 core courses need to be in English, math or natural/physical science. The grades in these seven courses will be “locked in,” meaning students will not be allowed to retake them to improve grades.

Division II 16 Core Course Rule

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 or non-doctrinal religion/philosophy).
- Students must graduate from high school and earn at least a 2.2 grade point average or better in your core courses.

Approved OHS Courses through the NCAA Clearinghouse

| English | Social Science | Mathematics | Science | Miscellaneous |
|-----------|----------------|-------------|----------|---------------|
| English I | American | Algebra I | Physical | Spanish I |

| | | | | |
|---------------------------|-------------------------|---------------------|----------------------------|-----------|
| | History | | Science | |
| English II | Sociology | Geometry | Biology | Spanish 2 |
| English III | Psychology | Algebra 2 | Chemistry I | Spanish 3 |
| English IV | Current Affairs | Pre-Calculus | Physics | Spanish 4 |
| DMACC Composition I | Early World History | Statistics | Environmental Science | |
| DMACC Composition II | Modern World History | Calculus | Anatomy & Physiology | |
| Young Adult Literature | World Cultures | DMACC Calculus I | Chemistry II | |
| Creative Writing | Government | DMACC Statistics | Earth and Space Science | |
| | Iowa Then and Now | | | |

National Association of Intercollegiate Athletics (NAIA)

[PlayNAIA: NAIA Eligibility Center](#)

The NAIA Eligibility Center is responsible for determining the NAIA eligibility of first-time student athletes. Any student playing NAIA sports for the first time must meet the eligibility requirements. Students must have their eligibility determined by the NAIA Eligibility Center, and all NAIA schools are bound by the center's decisions.

Four Year Completion

It is the desire of the faculty, staff and administrative team, as well as a mandate from the State of Iowa, that all students complete their high school diploma within four years of entering high school. In order to facilitate that goal, the options listed below are available for students who might need to recover credits. Please note the specific requirements in each area.

Independent Study Courses

Courses at the high school are not available on an independent study basis. However, if extenuating circumstances should exist, we may review the student's case and consider independent study. Permission of the high school principal is required before any independent study arrangements should be discussed.

Edmentum Courses

Edmentum is a computer-based curriculum. Students who utilize this curriculum are subject to the following course-completion requirements:

- Courses are available only after the locally instructed course has been attempted. Administration has the final decision on taking Edmentum courses.
- If successfully completed, the Edmentum course will satisfy local graduation requirements.
- Edmentum grades will be added to the student's transcript, but will not replace the original grade on the transcript.
- Course grades *for credit recovery* will not be included in the student's GPA.

Silver Cord

The purpose of the Silver Cord Program is to encourage students to make a contribution to their community through service/volunteer hours and to recognize those efforts. The award can be earned by completing the required hours of approved community service with non-profit organizations. It is suggested that students complete a minimum of 50 hours of approved service activities per year to reach a total of 200 hours; however, students may accumulate their 200 hours in varying amounts during their four years of high school. Students should receive approval for community service activity prior to completing the time. Students must have at least 50 hours submitted by the end of the sophomore year in order to be eligible for Silver Cord. Students that meet all program requirements will receive a silver cord to wear on their robes during their commencement ceremony.

Department Course Offerings and Descriptions

Agriculture Education Courses

Introduction to Agriculture, Food & Natural Resources (9-12) Year 2 credits

SCED Code: 18001

Introduction to Agriculture, Food, and Natural Resources (AFNR) is the introductory course where students will experience exciting “hands-on” activities, projects, and problems related to agriculture. It is designed to introduce students to the many career pathways in the agricultural industry. In addition to a brief overview of animal science, plant science, natural resources, and agricultural technology and systems, students will explore FFA, leadership, communication and science in agriculture.

Animal Science (10-12)

Year 2 Credits

SCED Code: 18101

Prerequisite: Introduction to Agriculture

Semester 1: Introduction into animal industries, covering equine, beef, dairy, swine, sheep, poultry, companion animals, and touch on exotic animals. Students will discover breeds, products, and issues in animal science.

Semester 2: Animal science will go further in depth during the second semester of this course reviewing meats, livestock judging, and reproduction. Students will have the option of competing in local events in these areas.

Plant Science/Horticulture (10-12)

Semester 1 Credit

SCED Code: 18056

Prerequisite: Introduction to Agriculture

This course will provide an introduction into the basics of plant science and the horticulture industry. Topics covered will include growth, reproduction, anatomy, and genetics.

Agriculture Business (10-12)

Semester 1 Credit

SCED Code: 18201 Agribusiness Management

Prerequisite: Introduction to Agriculture

This course focuses on decision making and problem solving within agricultural businesses. Students will discover topics including ag marketing, financing, ag careers, communication, and international ag awareness. Students will be utilizing virtual farming simulations, creating marketing strategies for the FFA, and creating their own business

concepts throughout the semester. If time allows, students will be creating and marketing their own products to the community.

Veterinary Science (10-12)

Semester 1 Credit

SCED Code: 18105

Prerequisite: Introduction to Agriculture and Animal Science

Vet science course will take an in depth look at vet terminology, animal anatomy, health and diseases, and animal handling.

Agricultural Entrepreneurship (10-12)

Semester 1 Credit

SCED Code: 18202

Prerequisite: Introduction to Agriculture and Agricultural Business

Agricultural Entrepreneurship courses focus on the personal skills necessary for success in entrepreneurial ventures in the agricultural industry. Students will be creating, marketing, and selling projects that are determined in Agribusiness. Topics include setting goals, assessing and solving problems, evaluating financial progress and success, business planning, information management and evaluation, and recordkeeping.

Agricultural Metals & Welding (11-12)

Semester 1 Credit

Prerequisite: Introduction to Agriculture

Ag Metals and Welding will cover shop safety, welding fundamentals and procedures, and metal cutting and fabrication. Students will complete weld lab activities to master basic welding processes including MIG and stick welding. Students will also be using the vinyl cutter to design and create vinyl projects.

Considerations: This course will be a laboratory course where students will learn welding and metal fabrication skills. Students will need to follow shop safety policies or they will not be allowed in the shop.

Agronomy (10-12)

Semester 1 Credit

SCED Code: 18051

Prerequisite: Introduction to Agriculture

Agronomy is the science and technology of producing and using plants for food, fuel, fiber, and reclamation. Agronomy encompasses work in the areas of plant genetics, plant physiology, meteorology, and soil science. In this first semester students will spend time in the classroom and also at our test plot site studying; crop plant anatomy, crop

plant classification, crop physiology, climate, soil science, and crop harvesting and storage.

Greenhouse Management (10-12) Semester 1 Credit

SCED Code: 18052

Prerequisite: Intro to Ag and Plant Science

Students will experience greenhouse production by producing garden and bedding plants as well as hanging flower baskets. Students will market and sell the products utilizing industry standards. The beginning of the semester will cover greenhouse operation specifics, floriculture, and the horticulture industry.

Landscape Design (10-12) Semester 1 Credit

SCED Code: 18054

Prerequisite: Intro to Ag and Plant Science

Landscape Design will include units on plant requirements, landscape materials, landscape design and drafting, and landscape installation.

Natural Resources (10-12) Semester 1 Credit

SCED Code: 18504

Prerequisite: Intro to Ag

Students explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, wildlife, and environmental agencies.

Ag Leadership (10-12) Year 2 Credits

SCED Code: 18203

Prerequisite: Must be a chapter officer or chairperson

Agricultural leadership is designed to teach students in leadership positions how to be a positive leader to their fellow students and community. Student will be creating presentations, planning events, how to run a proper meeting, and career skills. This course is designed for FFA officers and committee chairs.

Ag Small Engines (10-12) Semester 1 Credit

SCED Code: 18402

Prerequisite: Intro to Ag

Agriculture Mechanics and Equipment courses provide students with the engineering, power, and mechanical technology principles, skills, and knowledge that are specifically applicable to the agricultural industry. Typical topics include the operation, maintenance, and repair of power, electrical, hydraulic, pneumatic, renewable, wind, solar, and mechanical systems.

Ag Construction (10-12)

Semester 1 Credit

SCED Code: 18403*Prerequisite: Intro to Ag*

Agriculture Structures courses provide students with the skills and knowledge that are specifically applicable to the construction, maintenance, and repair of structures integral to the agricultural industry, including but not limited to animal enclosures, irrigation systems, and storage facilities. In these courses, students typically study technology, design, planning, and construction knowledge and skills (such as measurement, carpentry, plumbing, concrete, and electrical systems), in addition to the safe operation of tools, technology and machines.

Art Courses**Drawing** (9-12)

Semester 1 Credit

SCED Code: 05156

Drawing is for the student interested in working with two-dimensional drawing media. The student will be introduced to drawing studio activities, terminology and art history/culture. Drawing media will include; pencil, ink, colored pencil, chalk pastels, oil pastels, and charcoal. Composition and workmanship will be reviewed and integrated into each problem, as well as basic creative thinking tools. Career related problems will be integrated and explored.

Painting (9-12)

Semester 1 Credit

SCED Code: 05160

Painting is for the student interested in working with 2D art media of painting and printmaking. The student will be introduced to painting and printmaking studio activities, terminology and art history/culture. Media will include; acrylic, watercolor, monoprints and screenprinting. Composition and workmanship will be reviewed and integrated into each problem, as well as basic creative thinking tools. Career related problems will be integrated and explored.

3D Design (9-12)

Semester 1 Credit

SCED Code: 05159

3-D Design is for the student interested in working with three-dimensional media to create pottery and sculpture. The student will be introduced to sculpture and clay studio activities, terminology and art history/culture. Media will include: clay, found objects, plaster, and wire. Composition and workmanship will be reviewed and integrated into each problem, as well as basic creative thinking tools. Career related problems will be integrated and explored.

Ceramics (9-12)

Semester

1 Credit

SCED Code: 05159

Ceramics is for the student interested in working with clay to create ceramic sculptures and pottery. The student will be introduced to ceramic studio activities, terminology, and art history/culture. Media will include: clay, glaze, paint, and plaster. Students will be introduced to the kiln firing process. Problem-solving and creative thinking skills will be practiced. Career related problems will be integrated and explored.

Digital Art (9-12)

Semester

1 Credit

SCED Code: 05162

Digital Art is for the student interested in working with technology to create art and visual communications. The student will be introduced to activities that explore techniques in creating, editing, filming, and presenting in the digital world. Students will explore the creation of digital art as well as the history and foundations of digital art. Career related problems will be integrated and explored.

Art Advanced Study (12)

Year

2 Credits

SCED Code: 05197

Prerequisite: At least three separate art media electives and teacher approval

Advanced Art is intended for students who seriously want to pursue art as a career, as a vocation, and want to put together a personal portfolio or expand their creative thinking skills and ability. Independent projects are planned and guided by the student and teacher. Media will be determined by the student. Creative processes are explored in depth focusing on various subjects, theories, themes, techniques and styles.

Business Education Courses

The Mission of Business Education at Ogden High School is to work cooperatively with the business community to prepare all individuals to live and work as productive citizens in a changing global society by providing essential business education, experiences, and training. These experiences should actively engage students using instructional strategies that rely on the use of technology and practices that reflect current and emerging business procedures.

Workplace Readiness (9)

Year

2 Credits

SCED Code: 12001

Workplace Readiness is a career and technical education business course. The curriculum provides instruction based on career exploration, introductory business/economic concepts, with an emphasis on the integration and application of

current technology, communication, employability skills, and personal financial responsibility.

Introduction to Accounting (10-12)

Semester 1 Credit

SCED Code: 12104

Prerequisite: Workplace Readiness

Accounting I is an introductory course in accounting fundamentals and procedures. It includes capturing and analyzing business data and financial statement preparation. The double-entry bookkeeping system is presented with a focus on the end result of the accounting cycle, the financial statement. There is a focus on real-world applications designed to help students see the critical role accounting plays in the business world.

Accounting II (10-12)

Semester 1 Credit

SCED Code: 12104

Prerequisite: Introduction to Accounting

Accounting II is an advanced course that builds on the content learned in Introduction to Accounting. Topics include accounting for bad debts, notes receivable and payable, merchandise inventory, intangible assets, partnerships, corporations, business taxes, payroll, statement of cash flow, and analyzing financial statements. The course has an emphasis on real-world application designed to help students see the critical role accounting plays in the business world.

Introduction to Business (9-12)

Semester 1 Credit

SCED Code: 12051

Offered alternating years

Introduction to Business is an introductory business course covering a variety of topics including marketing, ethics, management, product development, business law, and business ownership. Students will develop skills primarily through project based learning and opportunities to hear from and partner with local businesses to support the variety of topics covered. Students will develop introductory level skills in a variety of areas in the business world allowing students to explore the potential that a career in business could provide for their future.

Personal Finance (9-12)

Semester 1 Credit

SCED Code: 19262

Offered alternating years

Personal Finance is a course that explores an individual's money management habits and develops strategies to be financially responsible. Students will explore topics such as budgeting, saving, credit and loans, insurance, personal taxes, and banking services.

This course is designed to prepare students for their future beyond high school to be financially independent and responsible.

Entrepreneurship (9-12)

Semester 1 Credit

SCED Code: 12053

Prerequisite: Workplace Readiness

Offered alternating years

The Entrepreneurship course provides students with the knowledge and skills necessary to own and operate their own businesses. The course will cover topics from a range of fields including economics, marketing, human relations and psychology, business competition, business management, business and labor law, and financial planning. Students will participate and engage with the curriculum as an entrepreneur by producing an original product or service that would benefit consumers in today's day and age. Through this project-based curriculum students will learn the value of entrepreneurs in our economy and gain experience by beginning the development process of their own small business/product/service.

Sports and Entertainment Marketing (9-12)

Semester 1 Credit

SCED Code: 12163

Prerequisite: Workplace Readiness

Offered alternating years

The Sports and Entertainment Marketing course provides students with understanding of essential marketing concepts and management strategies as they relate to the sports and entertainment industries. Course topics will include promotion of events, licensing, sponsorship and endorsements, branding, marketing research, pricing and distribution strategies, sales, financial planning, and the role of existing and emerging technologies in this industry. This project-based course encourages students to develop job skills and explore career opportunities in these industries.

Foundations of Marketing (9-12)

Semester 1 Credit

SCED Code: 12164

Offered alternating years

The Foundations of Marketing course provides students with understanding of the processes affecting the flow of goods and services from producers to consumers. The course tackles foundational marketing concepts including purchasing, distribution, promotion, planning, and product development. A major emphasis of this course will be on identifying different types of markets where developed products and services could find success.

Hospitality and Tourism Management (9-12)

Semester 1 Credit

SCED Code: 16001

Offered alternating years

This course is designed to generate interest in and provide a foundational understanding of hospitality segments and the world of career opportunities within the industry. Students are presented with both career readiness and position-specific skills that will help them get started in the industry and set them on the path to success.

Focus is on critical skills and customer service excellence— Building confidence and comfort in speaking to and working with people. Professional demonstrations from area experts as well as off-site familiarization tours of Iowa HTM businesses are included.

Semester I is an Exploration of Hospitality Careers Exploration of Hospitality Careers courses survey a wide array of topics while exposing students to the variety of career opportunities in hospitality fields (such as food service, lodging, tourism, and recreation). These courses serve to introduce students to the general field of hospitality, providing an opportunity to identify a focus for continued study.

Note: Students are required to attend all field trips in order to successfully pass this course and encouraged to participate in scheduled community activities.

Hospitality and Tourism Management II (10-12)

Semester 1 Credit

SCED Code: 16152

Prerequisite: Hospitality and Tourism Management I

Offered alternating years

Semester II is a continuation of study in HTM, exploring event management, travel, and tourism, and leadership skills. This is a 2-credit college course aligned with the Hospitality programs of Kirkwood Community College, and focused on preparing students to sit for an exam to earn the **Hospitality & Tourism Specialist Credential** which recognizes their knowledge and achievement.

Continued emphasis on critical skills and customer service excellence— Building confidence and comfort in speaking to and working with people. Professional demonstrations from area experts as well as off-site familiarization tours of Iowa HTM businesses are included.

Note: Students are required to attend all field trips in order to successfully pass this course and encouraged to participate in scheduled community activities.

Work Based Learning (11-12)

Semester 1 Credit

SCED Code: 12901

Workplace project-based learning courses are intended to develop attitudes, skills, and strategies applicable for professional situations, with emphasis on personal growth and development, interpersonal skills, intercultural understanding, leadership and the use of ethics. Students learn the concept of project-based learning in the workplace, and develop and implement projects in cooperation with local businesses, community organizations, or non-profit agencies. Projects are developed and supported under the supervision of an instructor.

Computer Science Courses**Computer Science Principles** (9-12)

Semester 1 Credit

SCED Code: 10011

Computer Science Principles courses provide students the opportunity to use programming, computational thinking, and data analytics to create digital artifacts and documents representing design and analysis in areas including the Internet, algorithms, and the impact that these have on science, business, and society. Computer Science Principles courses teach students to use computational tools and techniques including abstraction, modeling, and simulation to collaborate in solving problems that connect computation to their lives.

Robotics (9-12)

Year 2 Credits

SCED Code: 21009

Robotics courses help students develop and expand their skills and knowledge of robotics and related scientific and engineering topics. Course topics may include principles of mechanics, electronics, hydraulics, pneumatics, programmable logic controllers. These courses may emphasize the use of engineering principles to design and build robots, construct and connect sensors, and program robots in the programming language.

CTE**iJAG** (9-12)

Year 2 Credits

SCED Code: 22153

Prerequisites: Eligibility is determined on a need/want/benefit basis through referrals and an interview.

iJAG (Iowa Jobs for America's Graduates) is a career exploration and preparation program that provides a hands-on approach in exploring personal strengths and challenges as well as job attainment skills (cover letter, resume, job application, interviewing, etc.) and workplace "survival" skills (interpersonal relations, teamwork,

etc.). Students will also work to build strengths in academic areas, time management, and communication. The individual and team project work will also help students come to an understanding of personality and temperament and 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 through development of an Individual Career Development Plan. This full-year, credited course involves individual assignments, team activities/projects, academic remediation support, service learning opportunities, guest speakers, field trips (including a couple to state I-JAG events in Des Moines), and career exploration through job shadowing and/or an internship. Students will also participate in the I-JAG Career Association in various activities focused on Career and Leadership Development, Service Learning, and Civic/Social Awareness.

Family and Consumer Science

Family and Consumer Sciences Education empowers individuals and families across the lifespan to manage the challenges of living and working in a diverse global society. Our unique focus is on families, work, and their relationships.

FCS classes teach skills for success in personal and family life, and explore the skills needed for a variety of careers in human services, hospitality & tourism, education & training, and visual arts and design.

Life Management (9-12)

Semester 1 credit

SCED Code: 19257

This class is designed to help students prepare for success in family, career and community life as well as explore all areas of Family and Consumer Sciences: Human Services, Hospitality and Tourism, Education and Training, and Visual Arts and Design.

In this class, students will:

- * Build skills for success in life including:
 - Communication
 - Stress management and mindfulness
 - Conflict resolution
 - Teamwork
 - Goal setting
 - Decision Making
 - Time management
 - Organization
 - Money management
 - Employability skills
- * Explore relationship building techniques with:
 - Family
 - Friends
 - Dating and marriage partners

Co-workers

- * Analyze the expectations and responsibilities of child care and parenting.
- * Demonstrate safe food handling and preparation techniques
- * Explore techniques to be a wise consumer
- * Practice visual arts and design skills
 - Hand and machine sewing
 - Repurposing and upcycling
 - Interior design

CULINARY ARTS I: FOOD FUNDAMENTALS (9-12) Semester 1 credit **SCED Code: 19252**

Performance competencies in CAI will enable students to gain basic culinary knowledge and skills. This class is required before taking Advanced Foods.

In this class, the student will:

- * Analyze and apply kitchen safety, food safety, sanitation and sustainability procedures.
- * Understand and practice proper use, storage and maintenance of tools and equipment.
- * Follow recipes using correct menu terminology and measurements.
- * Prepare a variety of foods using different food preparation methods and techniques.
- * Build time management and organizational skills
- * Communicate and work productively with others
- * Explore careers in the Hospitality and Tourism industry

CULINARY ARTS II: ADVANCED FOODS (10-12) Semester 2 credits **SCED Code: 19254**

Prerequisite: Culinary Arts I: Food Fundamentals and/or Nutrition and Wellness

This is a 2 period class.

This class will introduce students to the many aspects of professional food preparation and service including menu planning, menu testing, costing, purchasing supplies, sanitation, advertising techniques, accounting principles, customer service, leadership, communication, time management, cooperation, organization and other employable skills. It will provide an opportunity to gain job experience working in a student-run restaurant.

The student will:

- * Plan healthy meals
- * Professionally garnish and present food
- * Practice purchasing, receiving and storing food properly.
- * Practice ordering/purchasing/, receiving and storing food properly.
- * Prepare and test menu items to determine portion size and menu price.
- * Develop marketing to promote the restaurant
- * Analyze factors that determine the success of a business

- * Apply safety and sanitation procedures as required by the Iowa Department of Inspections and

Appeals and the FDA Food Code.

- * Demonstrate effective customer service skills.

- * Professionally prepare a variety of food products to meet customer needs

- * Communicate and work productively with others

NUTRITION AND WELLNESS (9-12)

Semester 1 credit

SCED Code: 19253

This class provides essential information about nutrition, making healthy food choices through life, and healthy cooking techniques. Safety and sanitation, proper use of equipment, basic cooking techniques, and teamwork skills will also be emphasized. Successful completion of this class (80% or above) will allow students to opt out of culinary nutrition class at any Iowa junior college with a Culinary Arts program.

CHILD DEVELOPMENT (9-12)

Semester 1 credit

SCED Code: 19052

This course will give students basic knowledge of how humans develop. It will allow students to explore the impact of parenting and caregiving, and analyze factors that promote growth and development. Students will have the opportunity to plan and conduct learning activities, and to interact with and observe young children. This class has a statewide articulation agreement with Iowa junior colleges with Early Childhood Education programs--successful completion of this class (80% or above) will allow students to opt out of taking ECE170, Early Childhood Education, at a junior college with an Early Childhood Education program. In this class, the students will:

- * Analyze the roles and responsibilities of parenting, and the significance of family.
- * Analyze factors related to prenatal care, pregnancy and childbirth
- * Observe and assess children's growth and development
- * Identify and demonstrate employment skills needed for working with young children
- * Communicate and work productively with others
- * Explore careers in childcare, education and training

DESIGN (9-12)

Semester 1 credit

SCED Code: 19201

This class builds skills and explores careers in two areas of visual arts and design--Textiles and Apparel, and Interior Design.

In this class, the student will:

- * Practice time management and organizational skills
- * Design and develop a new product
- * Explore elements and principles of design

- * Create floor plans
- * Produce, alter, or repair fashion, apparel, and textile products.
- * Create projects that provide service to the community
- * Communicate and work productively with others
- * Explore career opportunities in human services and visual arts and design

Health and Fitness Courses

Health I (9-12)

Semester 1 Credit

SCED Code: 08051 Health Education

Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The courses may also include brief studies of environmental health, personal development, and/or community resources.

Health II (9-12)

Semester 1 Credit

SCED Code: 08052 Health and Fitness

Health and Fitness courses combine the topics of Health Education courses (nutrition, stress management, substance abuse prevention, disease prevention, first aid, and so on) with an active fitness component (typically including aerobic activity and fitness circuits) with the intention of conveying the importance of life-long wellness habits.

Physical Education (9-12)

Semester .5 Credit

SCED Code: 08001 Physical Education

*Enrollment is required each semester unless students meet state-approved exemptions requirements. Students are exempted from physical education classes for religious reasons or if a physician has certified a child as physically unable to participate in physical education.

Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

Aerobic Fitness (9-12)

Semester .5 Credit

SCED Code: 08005 Weight Training

- *Enrollment satisfies the State of Iowa Physical Education Requirement.
- *Student must be approved by the instructor.

The student will use a variety of aerobic activities to increase cardiovascular endurance, flexibility, muscular strength and overall fitness. This course will also focus on the development of movement skills and movement knowledge, self-image and personal growth, and social evolution.

Basic Strength and Agility (9)

Semester .5 Credit

SCED Code: 08009 Weight Training

*Enrollment satisfies the State of Iowa Physical Education Requirement.

*Student must be approved by the instructor.

This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. ... Students will learn the basic fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning.

Strength and Agility (9-12)

Semester .5 Credit

SCED Code: 08009 Weight Training

*Enrollment satisfies the State of Iowa Physical Education Requirement.

*Student must be approved by the instructor.

This advanced physical education class consists of weightlifting, plyometrics, agility training, and body core movements. The class is intended to improve athletes both on and off the playing fields.

Language Arts Courses

English I (9)

Year 2 Credits

SCED Code: 01001 Eng./LA I, 9th grade

Required course for all students, which is designed to provide learning experiences in the six facets of communication: reading, writing, speaking, listening, viewing and visual expression.

Emphasis is placed on listening skills, developing good study skills, research skills, developing personal responsibility, and acquaintance with technology resources. We work with short stories, novels, drama, and nonfiction to promote understanding of literary elements and techniques. In the pursuit of improved writing, students practice free writing and journaling. Descriptive writing and other creative writing are developed using myths and metaphors as a learning vehicle. Throughout the year, students focus on the parts of speech, with special emphasis on correct paragraph construction. Later

in the year, the focus shifts to concrete writing, including thank-you notes, letters of inquiry, and exploration of consumer issues. Through the thorough reading of a novel, the students explore social issues like injustice, heroism, personal responsibility, and coming of ages. Their daily discussions and writings help them to understand the contemporary importance and historical setting of the work. A study of Shakespeare introduces the students to his plays and his influence on literature since his time. The high school vocabulary program is introduced; students are tested at the beginning to provide appropriate materials to meet individual needs.

English II (10)

Year

2 Credits

SCED Code: 01002 Eng./LA II, 10th grade

English/Language Arts II (10th grade) course offering a balanced focus on reading, writing, speaking, and listening. Students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Students can improve their reading-comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. Students continue development of skills in writing, reading, listening, speaking, viewing, visual expression and vocabulary. In all units, the focus is on helping students to think independently, develop and defend opinions, communicate effectively for a variety of purposes, and read and analyze a variety of information.

English III (11)

Year

2 Credits

SCED Code: 01003 Eng./LA III, 11th grade

Prerequisite: English I and II

A year-long class, in which thematic units are used to develop foundational skills in writing, reading, listening, speaking, viewing, and vocabulary. The focus is on helping students think independently, develop and defend opinions, communicate effectively for a variety of purposes, and read and analyze a variety of quality American literature. Students are encouraged to grow as independent writers and thinkers through an emphasis on the writing process. Units will correspond with time periods covered in American History.

English IV (12)

Year

2 Credits

SCED Code: 01004 Eng./LA IV, 12th grade

Prerequisite: English I and II

A year-long class, in which thematic units are used to develop foundational skills in writing, reading, listening, speaking, viewing, and vocabulary. The focus is on helping students think independently, develop and defend opinions, communicate effectively for

a variety of purposes, and read and analyze a variety of quality American literature. Students are encouraged to grow as independent writers and thinkers through an emphasis on the writing process. Units will correspond with time periods covered in American History.

Multimedia (10-12)

Semester 1 credit

SCED Code: 01099

Prerequisite: English 1 or instructor approval

Students will examine the social and political environments that they live in based on the media that surrounds us. Students will critique, analyze and explore a number of media through different literary lenses. In this course students will explore a multitude of media text: art, movies, advertisements, interviews, novels, short stories, and photographs.

Creative Writing (10-12)

Semester 1 credit

SCED Code: 01104

Prerequisite: English I or instructor approval

Creative writing is a one-semester course offering students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis of the courses is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft; therefore, this course features the reading, interpretation, and analysis of fiction, poetry, and drama as tools for creative writing. Students will produce and publish short stories, poems, and/or plays in a workshop setting, and the course will rely heavily on the writing process, share alouds, peer-editing, and revision techniques.

Young Adult Literature (10-12)

Semester 1 Credit

SCED Code: 01061 Literature of a Genre

These courses have the same aim as general literature courses (to improve students' language arts and critical-thinking skills), focusing on one or several identity, global perspective, discrimination, mental health, and more. Students determine the underlying assumptions and values within the selected works and also examine the structure, techniques, and intentions of the genre being studied. Oral discussion is an integral part of these genre-oriented courses, and written compositions are often required.

DMACC Comm Skills (ENG 703) (12)Semester 1 credit
3 DMACC Credits**SCED Code: 01155**

Reading, writing, speaking and listening are studied as methods of exploring and evaluating technological advances in trades and industry. Adapting communication for different audiences, evaluating industry-related literature and basic business writing are emphasized. Students will learn about the communication process, building relationships, and advance their public speaking skills.

DMACC Composition 1 (ENG 105) (12)Semester 1 Credit
3 DMACC Credits**SCED Code: 01103***Prerequisite: Satisfactory writing skills*

Composition I introduces students to the college-level writing process through the construction and revision of a series of expository and persuasive essays. Students may also produce other writing appropriate to the academic and working world. Through exposure to a variety of college-level readings, the students will build critical reading skills, and students will be expected to respond to assigned readings in a variety of ways. The course introduces library and computer-based research strategies. Students will write and revise at least 4 essays and produce a minimum of 20 pages.

DMACC Composition 2 (ENG 106) (12)Semester 1 Credit
3 DMACC Credits**SCED Code: 01103***Prerequisite: Grade of C- or better in ENG 105*

Composition II is a continuation of Composition I. Students will analyze, synthesize, and evaluate texts. Effective academic research is also emphasized. Assignments may include expository and persuasive writing appropriate to academic and professional contexts. Students will write and revise three or more essays, including a research-based argument, and produce a minimum of 20 pages of prose. Academic integrity is a key expectation of this course.

Yearbook (9-12)

Year 2 Credits

SCED Code: 11104 (Publication Production)

Students learn basic principles of yearbook production and develop skills that include writing copy, captions and headlines; digital photography; desktop publishing and using appropriate technology tools for media production. ***(Yearbook is an elective class and cannot be used to satisfy the 4-year requirement for English)***

Structure of Writing (10-12)

Semester 1 Credit

SCED Code: 01204

Structure of Writing is the study of principles of grammar and effective writing, and the application of these principles to writing. In Structure of Writing, you will learn about the types of sentences, punctuation marks and grammar rules such as subject verb agreement and tenses; you will also learn about different parts of speech and their correct usage; examine the concept of parallel structure in sentences as well as identify and correct run-on sentences. Finally, you will learn about developing paragraphs and essays.

Mathematics Courses**Pre Algebra** (9-10)

Year 2 Credits

SCED Code: 02051

Pre-Algebra courses increase students' foundational mathematics skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, formulas (area and perimeter), and solving first-degree equations and inequalities. Several topics discussed in Pre-Algebra will be previews to topics discussed in Algebra.

Algebra I (9-10)

Year 2 Credits

SCED Code: 02052

Prerequisite: Students need a working knowledge of manipulation of whole numbers, fractions and decimals.

This is the first course for a four-year sequential program offered in math. Algebra I provides students with strategies needed to solve a variety of problems. Material covered in the course includes: study of the real numbers; use variables to represent unknowns; number properties; solving linear equations in one variable; solving inequalities; factoring; using exponents; graphing; functions; polynomials; lines and slopes; ratio and proportion; real world problems situations. Scientific calculator or better recommended.

Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first-degree equations and inequalities; translating word problems into equations; solving a system of equations; operations with and factoring of polynomials; and solving simple quadratic equations.

Algebra I also includes some one variable statistics about the shapes of data distributions (histogram, box plot, dot plot), measures of center, and measures of variability.

Geometry (9-12)

Year

2 Credits

SCED Code: 02072

Prerequisite: Successful completion of Algebra I (may be doubled up with Algebra II with instructor's permission)

Emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

The curriculum is taught with daily use of Algebra techniques to not only learn the visual and spatial aspects of the world around us, but hone their previous skills. Geometry is a skill that is needed whether going to a 4 year university, 2 year program, or directly into the working world. By the end of the course, students will have studied geometry terminology and symbols, reasoning/logic skills, proofs, measurement, angles, parallel and perpendicular lines and their properties, triangles and their properties, polygons, quadrilaterals, circles, similarity, surface area and volume. Additionally, students receive a complete education in basic trigonometry (triangles alone, unit circle trigonometry is reserved for precalculus). This course is required for students planning to attend a four-year college or university.

Algebra 2 (10-12)

Year

2 Credits

SCED Code: 02056

Prerequisite: Successful completion of Algebra I and Geometry. (may be doubled up with Geometry with instructor's permission)

This course is designed to build on algebraic and geometric concepts. It develops advanced algebra skills such as recognizing patterns in geometric and arithmetic sequences, modeling problems with equations, solving systems of equations, operations with advanced polynomials and rational functions, operations with complex numbers and rational exponents, exponential functions and equations, solving quadratics, and applying the transformation of functions. The content of this course are important for students' success on both the ACT and college mathematics entrance exams. Students who complete Algebra II should take Pre-Calculus next. Materials are supplemented with video presentations from Khan Academy, YouTube and other

Internet resources. Desmos graphing tool, and Google Spreadsheets. This course is a prerequisite for Pre-Calculus and Statistics. (May be doubled up with Statistics with instructor's permission.)

Algebra II course topics typically include some properties of matrices; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; transformations of functions, graphing of constant, linear, and quadratic equations; properties of higher-degree equations; and operations with rational and irrational exponents. Algebra II also includes the study of polynomial, logarithmic, exponential, rational functions, and conics (circles, ellipses, parabolas, and hyperbolas) and their graphs-. If time allows, we will review some trigonometry functions and make statistical inferences.

Pre-Calculus (11-12)

Year

2 Credits

SCED Code: 02110

Prerequisite: Successful completion of Geometry and Algebra II

Combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Mathematical Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

This is the fourth math class in a sequential program of study. The main focus is on functions. Students will learn to analyze, and graph functions by hand and with graphing calculators. Students will be able to determine when various functions fit the data or model, characteristics of functions, transformations, and determine domains and ranges. Types of functions studied include but are not limited to polynomials (constants, linear, quadratic, cubic...), absolute values, step functions, piecewise functions, rational functions, exponential functions, logarithms, and trigonometric functions. Students will learn the use of graphing calculators as a mathematical tool. A graphing calculator is required for this class and will be supplied for students without access to one.

DMACC Calculus (MAT 211) (11-12)

Year

2 Credits

SCED Code: 02121

5 DMACC Credits

Prerequisite: Successful completion of Geometry, Algebra II and Pre-Calculus, and meeting the required minimum score on the ALEKS placement exam.

Includes the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Students will have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and mathematical analysis).

This course is for students who will need an introduction to calculus for college. The second semester of this class is worth 5 DMACC credits. Units of study include but are not limited to a review of pre-calculus topics, limits and their evaluation numerically, graphically and analytically, continuity, derivatives and the tangent line problem, rules of differentiation (power rule, quotient rule, chain rule...), higher order derivatives, applications and related rates, extrema, concavity, optimization, differentials, antiderivatives and integration, integration by substitution and area under a curve. A graphing calculator is required for this class and will be supplied for students without access to one.

DMACC Statistics (MAT 157) (11-12)

Year 2 Credits

SCED Code: 02205

4 DMACC Credits

Prerequisite: Successful completion of Algebra II, or instructor's permission, and meeting the required minimum score on the ALEKS placement exam.

Involves the major concepts and methods used to collect, analyze, and draw conclusions from data. Topics typically include populations and samples, measures of central tendency and variability, hypothesis testing, presentation, and making statistical inferences.

Today, more than ever, statistics plays a very important role in our lives. Being able to analyze and interpret data is essential. Students planning to attend a two or four year college or university, where statistics is required in the course work, are strongly encouraged to take statistics in high school. *The second semester of this class is worth 4 DMACC credits.* Units covered include: distributions of data, numerical calculations for central tendencies, probability, probability distributions, normal distributions sampling, estimation, hypothesis testing, linear correlations and regression. A graphing calculator is required for this class and will be supplied for students without access to one.

Music Courses

Instrumental Music

Marching Band (9-12)

Semester 1 Credit

SCED Code: 05103

The marching band is comprised of all students registered for band. The color guard is

chosen through an audition process, which takes place in the spring. The marching band performs at all home football games, the Homecoming parade and various invitational marching band competitions. The marching band also adds spirit and enthusiasm to all local pep assemblies.

Concert Band (9-12)

Semester 1 Credit

SCED Code: 05103

The concert band is the main performing organization in the Instrumental Music Department and is comprised of all students registered for band. The concert band performs a wide variety of music that exposes the student to quality band literature while teaching music education through participation and performance. The concert band performs at the winter concert, spring concert, large group contest and graduation ceremonies

Jazz Band: The jazz band is comprised of students registered for concert band both semesters. All students are eligible to participate and perform at various home concerts. The traveling jazz band is limited to a predetermined instrumentation; five saxophones (2 altos, 2 tenors, 1 baritone), five trumpets, four trombones, drums, bass, guitar, piano, auxiliary percussion and vibes.

The jazz band participates in various competitions. Students are encouraged to solo and to gain experience in improvisation. The group rehearses before school starting in October.

Solo and Ensembles: Band students are encouraged to participate in ensembles and/or prepare a solo for the Iowa High School Music Association Solo and Ensemble Contest. These festivals give each student the opportunity to perform chamber number and /or solo music and help to develop the individual into the best musician possible and thereby improve the overall quality of the instrumental music program.

Lessons: Every student is scheduled to receive one twenty-minute lesson per cycle. The student and director work together to improve the overall musicianship of the student, which will also help the overall quality of the instrumental music program

Vocal Music

Mixed Chorus (9-12)

Semester .5 Credit

SCED Code: 05110

Everyone in grades 9-12, regardless of whether you think you're a good singer or not, is encouraged to try Mixed Chorus. Mixed chorus meets every other day. Each year

includes three performances a fall, winter and spring concert. No outside practice time is required. If you intend to be in show choir or chamber choir, you must also be a member of mixed chorus. Vocal lessons are required.

Chamber Choir (9-12)

Semester .5 Credit

SCED Code: 05111

Prerequisite: Approval of the instructor

The chamber choir is Ogden's select vocal ensemble. The concentration is on excellence in performance. This is a group of 24 to 30 singers who (1) can read music rapidly and (2) have had vocal training. Chamber choir members must have lessons scheduled. The chamber choir performances include: All-State auditions, three chamber choir competitions, solos and ensemble contests. Chamber choir is for the highly motivated vocal musician.

Show Choir: Ogden's show choir, known as the Bulldog Beat, is a premier and award winning show choir. Auditions for this choir are held each spring and freshman are welcome to try out. This choir competes at four festivals each year. There is also a show choir band that plays for the Bulldog Beat. Rehearsals for this group occur outside of class time.

Independent Music: Several possibilities exist for the independent music course:

1. Basic Music Theory - This instruction deals with ear training, keyboard training, written work and sight singing as college preparatory training. In addition, music of the past and present is studied with emphasis toward writing and performing various types of music. This course is designed for the student who plans to major or minor in music at the university level.
2. Methods – This course is designed for the student who plans to major or minor in college and deals with the learning of various instrumental music families, i.e., woodwind, brass and percussion. Students are encouraged to learn basic technique on the clarinet, trumpet and snare drum, with emphasis on other instruments as time permits.
3. Elementary methods involve teaching and learning about music education at the elementary level. This course needs the approval of the instructor and requires three to five hours a week at the elementary school.

Science Education Courses

Biology (9)

Year 2 Credits

SCED Code: 03051

Biology is the study of life. The course studies the environment and interactions of all organisms. Systems of individual organisms and how they function will also be covered. Curriculum is delivered through online computer-based and classroom learning. It will be supplemented with hands-on group projects and lab activities. This course is required for graduation.

Physical Science (10)

Year 2 Credits

SCED Code: 03159

This course is an introductory course of topics that will be later developed in chemistry and physics. Topics will include forms of energy, wave phenomenon, electromagnetism, and physical and chemical interactions. Curriculum is delivered through online computer-based and classroom learning. It will be supplemented with hands-on group projects and lab activities.

Earth Science (10-12)

Year 2 Credits

SCED Code: 03001

Prerequisite: Biology

Earth Science focuses on our universe and the planet we live on. This course will cover the formation of our universe and planet, climate and natural systems. Curriculum is delivered through online computer-based and classroom learning. It will be supplemented with hands-on group projects and lab activities.

Chemistry I (11-12)

Year 2 Credits

SCED Code: 03101

Prerequisite: Physical Science and Algebra I

Chemistry I is a college-preparatory course, which should be taken by students considering a four-year college program in any area of study, or a two-year program in a science related area of study. Chemistry courses involve studying the composition, properties, and reactions of substances. This course will also explore such concepts as the behaviors of solids, liquids, and gases, atomic structure, chemical formulas and equations, and nuclear reactions. To be admitted to the University of Iowa or Iowa State University this or Physics is required.

Physics (11-12)

Year 2 Credits

SCED Code: 03151*Prerequisite: Physical Science, Algebra II and/or Instructor Approval*

Physics involves the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy using algebraic problem solving techniques. The study of physics includes examination of sound, light, and magnetic and electric phenomena. Students will perform laboratory exercises to gain an understanding of previously addressed topics.

Chemistry II (12)

Year 2 Credits

SCED Code: 03102*Prerequisite: Chemistry and Instructor Approval needed*

Chemistry II is a continuation course from Chemistry I. Chemistry II will cover chemical properties and interactions in more detail. Advanced chemistry topics include organic chemistry, thermodynamics, electrochemistry, macromolecules, kinetic theory, and nuclear chemistry. Recommended for students that have a strong desire to go into a science/medicine related field.

Anatomy and Physiology (11-12)

Year 2 Credits

SCED Code: 03053*Prerequisite: Biology and Instructor approval needed*

Anatomy & Physiology is a year course designed for the student who is looking for more study in the human body. The anatomy and physiology of the systems of the body are studied in depth. Medical terminology involves studying the terminology of the medical field. Students learn the signs, abbreviations, words and meanings in this field. It is an upper level college prep course so instructor approval is needed.

Social Studies Courses**Early World History** (10-12)

Semester 1 Credit

SCED Code: 04058 (Ancient Civilizations)

This course is an interactive project-based class setting, with a variety of activities allowing students to reach their potential in their strongest style of learning.

The first semester course provides a survey of the evolution of society from the ancient Middle East through Greek and Roman civilizations. Students study the rise and fall of civilizations and empires, with an emphasis on the legacies they provide to successive societies.

The first semester highlights the classical civilizations of Egypt, Mesopotamia, India, and China, followed by the classical eras of Greece and Rome. These civilizations laid the basis for civilization as we know it today. First semester also gives a basic geographical lesson of the Eastern Hemisphere.

Modern World History (10-12)

Semester 1 Credit

SCED Code: 04053 (Modern World History)

This course is an interactive project-based class setting, with a variety of activities allowing students to reach their potential in their strongest style of learning.

Second semester World History course provides an overview of the history of human society in the past few centuries—from the Renaissance period, to the contemporary period—exploring political, economic, social, religious, military, scientific, and cultural developments.

Second semester focuses on a study of the Western World. Europe is full of the excitement of the Renaissance, the rise and fall of Monarchs and the Church, the Enlightenment, Revolutions, Imperialism and the beginning of World Wars. All of these topics, and more, are covered in World History.

American History (11)

Year 2 Credits

SCED Code: 04103 (Modern U.S. History)

American History is required for all students. It begins with an examination of the Civil War, and continues through the 19th century to cover WWI, WWII, and the Cold War. Multiple facets of history are discussed such as popular culture, world politics in relation to the US, scientific developments, and parallels throughout history that connect today's students to the past.

Iowa: Then and Now (9-12)

Semester 1 Credit

SCED Code: 04105 (State-Specific Studies)

This elective course focuses on Ogden, Central Iowa, and the role Iowa and Iowans have had in our history. Students will examine the history, politics, economics, society, and/or cultures of Iowa. This course focuses primarily on the history of that state as well as the contemporary issues of Iowa. The course is inquiry-based, requiring students to investigate deeper than basic internet research. Skills such as researching, writing, and interviewing will be taught and assessed. Communication and collaboration will be vital for assembling projects and events. Students should be self motivated as the emphasis of the course is the completion of large tasks and endeavors.

Current Affairs (10-12)

Semester 1 Credit

SCED Code: 04064 (Contemporary World Issues)

This course offers an in-depth study to contemporary political, economic, and social issues throughout the world including global relations, environment, crime, social media and many others. The content is driven by student interest and current events. Students will study topics and formulate opinions and solutions based on research and discussion. The course is designed to develop critical thinking skills such as analysis, debate, inquiry, and writing. It provides students with opportunities to explore different points of view and look at historical causes of current issues.

Sociology (11-12)

Semester 1 Credit

SCED Code: 04258

This is a survey course that introduces students to the study of human behavior in society. Content includes: history and development of sociology as a discipline, culture, norms, roles and statuses, social control, nurture vs. nature, socialization, deviance, and social stratification, social institutions, social change, relationships among individuals and groups in society.

Psychology (11-12)

Semester 1 Credit

SCED Code: 04254

This is a survey course that introduces students to the study of human behavior and mental processes. Topics include: history and development of psychology as a discipline, learning, memory, the brain, sensation and perception, motivation and emotion, consciousness, developmental psychology/human growth and development, personality, and abnormal behavior.

American Government/Economics (12)

Year 2 Credits

SCED Code: 04160- (U.S. Government, Civics, and Economics)

American Government is a required course for all students. It involves a study of the political operation of the United States government, local, state and national. Topics include: foundations in government, the Constitution, elections and politics, three branches of government and our basic rights as individuals. The course also includes economics with an overview of basic principles of market economics including supply and demand. Students will also explore consumer topics such as credit, investments, financing college, and insurance.

This course is designed to prepare students to perform effectively as informed citizens.

World Cultures (9-12)

Semester 1 Credit

SCED Code: 04061 (World Area Studies)

This course is a geography-based examination of the continents and countries of the world. Using information about geography and history, students will understand the cultures of various locations around the world. The project-based class will provide students with an opportunity to explore global society and contemporary issues that have been influenced by historical events, politics, and economics.

AP US History (11-12)

Year 2 Credits

SCED Code: 04104

Prerequisite: 3.0 GPA or instructor approval and parent permission

Following the College Board's suggested curriculum designed to parallel college-level U.S. History courses, AP U.S. History courses provide students with the analytical skills and factual knowledge necessary to address critically problems and materials in U.S. history. Students learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. The course examines the discovery and settlement of the New World through the recent past.

AP Psychology (11-12)

Semester 1 Credit

SCED Code: 04256

Prerequisite: 3.0 GPA or instructor approval and parent permission

Following the College Board's suggested curriculum designed to parallel a college-level psychology course, AP Psychology courses introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals, expose students to each major subfield within psychology, and enable students to examine the methods that psychologists use in their science and practice.

World Language Courses**Spanish 1** (9-12)

Year 2 Credits

SCED Code: 24052

Prerequisite: C- or above in 8th grade LA / Reading

Spanish 1 reviews what was covered in 8th grade Exploratory Spanish and prepares students to speak and write in Spanish at a basic level. Students learn basic communication phrases and verb conjugations. Vocabulary covered includes: numbers 0-100, school items, family members, foods and drinks, weather phrases and clothing. Storytelling and songs are used to acquire Spanish. Students develop beginning

reading and conversational skills, laying the foundation for further study of the language. Students are introduced to Hispanic culture.

Spanish 2 (10-12)

Year 2 Credits

SCED Code: 24053

Prerequisite: C- or above in Spanish 1

Spanish 2 builds upon knowledge gained in Spanish I and expands students' vocabulary. Vocabulary covered includes: body parts, emergency Spanish and adjectives. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. As in Spanish I, storytelling and songs are used to acquire Spanish. Students are introduced to future tense. An interweaving of culture enhances students' appreciation of Spanish-speaking countries.

Spanish 3 (11-12)

Year 2 Credits

SCED Code: 24054

Prerequisite: C- or above in Spanish 2

Spanish 3 builds upon knowledge gained in Spanish 1 and 2. Vocabulary covered includes: personal hygiene items, household items and restaurant phrases. Students will continue to develop listening, speaking, reading and writing skills. There is an increased emphasis on grammar, and students are introduced to the past tenses. Issues surrounding legal and illegal immigration are discussed. Contributions to making our world a better place by Hispanic artists, musicians, scientists, actors, athletes, business professionals, etc. are part of the curriculum.

Spanish 4 (12)

Year 2 Credits

SCED Code: 24055

Prerequisite: C- or above in Spanish 3

Spanish 4 builds upon knowledge gained in Spanish 1, 2 and 3. Students will continue to develop listening, speaking, reading and writing skills. There is an increased emphasis on grammar, and students are introduced to conditional tense and indicative and subjunctive moods.

Students use their vocabulary and grammar skills to write and present a cooking show and a presidential speech, write and film a commercial and write and present a newscast. Each month a food or drink from a Spanish-speaking country is prepared in class.

Special Education Courses

Study Skills 1, 2, 3, 4 (9-12)

Year 2 Credits

SCED Code: 22003 STUDY SKILLS

Description: Study Skills classes prepare students for success in high school and/or postsecondary education. Course topics may vary according to student needs, but typically include reading improvement skills, such as scanning, note-taking, and outlining; library and research skills; listening and note-taking; vocabulary skills; and test-taking skills. The courses may also include exercises designed to generate organized, logical thinking and writing. Classes will be designed around the individual needs of the students per their IEPs.

Basic English 1, 2, 3, 4 (9-12)

Year 2 Credits

SCED Code: 01009 LANGUAGE ARTS LABORATORY

Basic English classes provide instruction in basic language skills, integrating reading, writing, speaking, and listening, while placing great emphasis on the progress of individual students. Course content depends upon students' abilities and may include vocabulary building, improving spelling and grammar, developing writing and composition skills, reading silently or aloud, and improving listening and reading comprehension abilities. Classes will be designed based on the individual student's skills and needs as outlined by the student's IEP.

Basic Math 1, 2, 3, 4 (9-12)

Year 2 Credits

SCED Code: 02001 INFORMAL MATHEMATICS

Basic Math classes emphasize the teaching of mathematics as problem solving, communication, and reasoning, and highlight the connections among mathematical topics and between mathematics and other disciplines. These courses approach the teaching of general mathematics, pre-algebra, and pre-geometry topics by applying numbers, and algebraic and geometric concepts and relationships to real world problems. This may also include functional math skills that are needed to meet transition plans. Classes will be designed based on the individual student's skills and needs as outlined by the student's IEP.

Basic World History (9-12)

Year 2 Credits

SCED Code: 04099 WORLD HISTORY-OTHER

Basic World History will provide instruction on world history as determined by the individual student's skills and needs outlined by the student's IEP.

Basic US History (11-12)

Year 2 Credits

SCED Code: 04149 US HISTORY-OTHER

Basic US History will provide instruction on history of the United States as determined by the individual student's skills and needs outlined by the student's IEP..

Basic Government (12)

Year 2 Credits

SCED Code: 04199 GOVERNMENT, POLITICS AND LAW-OTHER

Basic Government will provide instruction on the American government as determined by the individual student's skills and needs outlined by the student's IEP.

Basic Biology (9-12)

Year 2 Credits

SCED Code: 03099 BIOLOGY-OTHER

Basic Biology will provide instruction in biology as determined by the individual student's skills and needs outlined by the student's IEP.

Basic Physical Science (10-12)

Year 2 Credits

SCED Code: 03999 Sciences-Other

Basic Physical Science will provide instruction in physical science as determined by the individual student's skills and needs outlined by the student's IEP. **Life and Physical**

Basic Earth Science (10-12)

Year 2 Credits

SCED Code: 03049 EARTH SCIENCE-OTHER

Basic Earth Science will provide instruction on the universe and Earth as determined by the individual student's skills and needs outlined by the student's IEP.

Life Skills (9-12)

Year 2 Credits

SCED Code: 08057 Health & Life Management

Life skills will focus on personal health topics (such as nutrition, cooking, and stress management) including helping students develop decision-making, communication, interpersonal, and coping skills and strategies. Individual skills and needs will be outlined by the student's IEP.

Vocational Skills (9-12)

Year 2 Credits

SCED Code: 22153 Diversified Occupations

Vocational skills will help students enter the workforce through career exploration, job search and application, and the development of positive work attitudes and work-related skills. It will cover career planning and selection, money management, communication skills, interpersonal business relationships and behaviors, and personal responsibility. Employment may be a required component of this course, or students may be required

to enroll concurrently in a work experience course. Individual skills and needs will be outlined by the student's IEP.