COURSE DESCRIPTION GUIDE

FOR

OGDEN HIGH SCHOOL

2022-2023

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 2022-2023 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 enroll in a minimum of six (6) classes plus PE. *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://www.educateiowa.gov/adult-career-and-community-college/senior-year-plus-syp). 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. The student is proficient on the reading, math, and science portions of the ISASP. Proficiency for Reading/Math/Science is a score of 259. If a student at Ogden High School is not proficient, they must fulfill the Senior Year Plus requirement. This can be accomplished by fulfilling one of the following two alternative proficiency requirements. NOTE: Students would only need to meet alternative proficiency requirements in the areas (reading, math, science) not met via the ISASP Iowa State Assessment of Student Progress testing: Sophomores- ELA 530, Math 537, Science 545 and Juniors- ELA 561, Math 559, Science 545.
2. The student is proficient on the reading, math, and/or science portions of the American College Testing exam (ACT). Proficiency is a score of 18 or higher on each individual portion.
3. The student is proficient on the reading, math, and/or science portions of their most recent ACCUPLACER test. Proficiency will be determined by the following scores:
    - READING & SCIENCE: 35 on the Reading Skills portion of the ACCUPLACER test.
    - MATH: 24 on the Math Skills portion of the ALEKS test.

DMACC Concurrent Credit Courses at Ogden High School

The courses listed below are offered to juniors and/or seniors at Ogden High School for both Ogden High School and Des Moines Area Community College (DMACC) credit. Junior and senior 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 Applied Math	MAT 772	3 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 juniors and seniors who qualify. 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 juniors and seniors who qualify. 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	Automotive Technology	Business
Criminal Justice	Emergency Medical Technician (EMT)	Health Occupations
Teacher Academy	Welding	

Online Courses

Online, college-level courses may be completed by 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 select online courses offered through Des Moines Area Community College (DMACC).
https://www.dmacc.edu/online/Pages/careeracademy.aspx

IOWA STATE UNIVERSITY | THE UNIVERSITY OF IOWA | University of Northern Iowa

So What's Your RAI Score?

(2 x ACT composite score)
+ (1 x percentile high school rank)
+ (20 x high school GPA)
+ (5 x number of high school core courses)

Regent Admission Index Score

Effective fall semester 2009, if you wish to enter any of the Iowa Regent universities as a freshman, you must meet the new Regent Admission Index (RAI) requirement. If you meet the minimum high school course requirements listed below and you earn an RAI score of at least 245, you will automatically qualify for admission to any of the Iowa Regent universities. If you meet the minimum high school course requirements and you earn an RAI score below 245, you may still be considered for admission to any of the Regent universities on an individual basis.

The most effective way to increase your RAI score is to take additional core courses (i.e., college-prep courses offered by your high school in any of the following subject areas: English, math, science, social studies, or foreign language). It will not only enhance your chances for gaining admission, it will also increase your likelihood for academic success after you've entered college! If you have questions about which of your high school's courses are considered core courses, just ask your guidance counselor.

Go to www2.state.ia.us/regents/rai/ to calculate your own RAI score.

SUBJECT	MINIMUM COURSE REQUIREMENTS FOR ADMISSION			OPTIMUM PREPARATION
	Iowa State University	The University of Iowa	University of Northern Iowa	
English	**4 years** emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.	**4 years** with an emphasis on the analysis and interpretation of literature, composition, and speech.	**4 years** including one year of composition, also may include one year of speech, communication, or journalism.	**4 years** with an emphasis on the communication skills of writing, reading and listening, and the analysis and interpretation of literature. In addition, courses in journalism and media literacy will be valuable. Extracurricular activities in debate, speech contest, newspaper, and yearbook will further develop essential competencies.
Math	**3 years** including one year each of algebra, geometry, and advanced algebra.	**3 years** including two years of algebra and one year of geometry for admission to the College of Liberal Arts and Sciences. **4 years** including two years of algebra, one year each of geometry and high math (trigonometry, analysis, or calculus) for admission to the College of Engineering.	**3 years** including the equivalent of algebra, geometry and advanced algebra.	**4 years,** one in each year of high school. While advanced courses like calculus and statistics are good, it's more important that you gain a complete understanding of advanced algebra and trigonometry.
Natural Science	**3 years** including one year each from any two of the following: biology, chemistry, or physics.	**3 years** including one year each from any two of the following: biology, chemistry, or physics for admission to the College of Liberal Arts and Sciences. **3 years** with at least one year each in chemistry and physics for admission to the College of Engineering.	**3 years** including courses in general science, biology, chemistry, earth science, or physics. Laboratory experience is highly recommended.	**4 years,** one in each year of high school. To be really well prepared, take at least one year each of biology, chemistry, and physics. These can be taken in any order and may be taught productively in either a separate or an intergraded fashion, depending on your school's offerings.
Social Studies	**2 years** for admission to the Colleges of Agriculture and Life Sciences, Business, Design, Engineering, and Human Sciences. **3 years** for admission to the College of Liberal Arts and Sciences.	**3 years** with US history and world history recommended for admission to the College of Liberal Arts and Sciences. **2 years** with US history and world history recommended for admission to the College of Engineering.	**3 years** including courses in anthropology, economics, geography, government, history, psychology, or sociology.	**3 years** is essential, but four is better. Take at least one year each of US and world history. Additional courses in anthropology, economics, political science, psychology, and sociology provide an important understanding of political, social, and economic institutions.
Foreign Language	**2 years** of a single foreign language for admission to the College of Liberal Arts and Sciences (and effective fall 2009, for the College of Engineering).	**2 years** of a single foreign language are required for admission. For many degrees, the fourth year of proficiency is required for graduation.	Foreign language courses are not required for admission. However, two years of foreign language in high school with a C- or above in the last course will meet the university graduation requirement.	**4 years** of a single foreign language. By taking foreign language during all four years of high school, you'll go beyond the basic skills and begin to use the language and reinforce your fluency.
Other Courses	Specific elective courses are not required for admission.	Specific elective courses are not required for admission.	**2 years** of additional courses from the required subject areas, foreign language, or the fine arts.	**Explore!** Courses in the fine arts, performing arts, computers, or technology will help round out your high school experience. Your future field of concentration or career may lie in one of those areas. Follow your interests, talents, and the strengths of your school. Remember to choose courses with high academic standards.

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).

Entrance to Iowa Regents Institutions
A Regent Admission Index (RAI) score will be calculated for freshman applicants to any of the three Regent universities. Admission will be based on the RAI which combines four factors: 1.) ACT composite score; 2.) high school rank; 3.) high school grade point average; and 4.) the number of high school courses completed in the core subject areas.

Students who have an RAI of 245 or greater and have successfully completed the required core subject area courses will be eligible for automatic admission to any of the three Regent universities. The freshman applicants from Iowa schools who have an RAI below 245 will have these applications reviewed on an individual basis and the admission decision will be specific to each institution. A "web calculator," which can be used as an informal way for a student to calculate his/her Regent Admission Index, is available at Board of Regents State of Iowa.

Enter the number of full-year courses that you've taken or plan to take in English, mathematics, natural science, social science, and foreign language. (A one-semester course counts as 0.5). While additional courses in areas such as the fine arts and technology will help round out your high school experience and prepare you for future careers, they are not part of the core courses used to calculate your admission index.

- SAT scores will be converted to ACT composite equivalent.
- High school rank is expressed as a percentile with 99% as the top value.
- High school GPA is expressed on a 4-point scale.

ATHLETIC ELIGIBILITY

NCAA Clearinghouse

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.

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).

Division II 16 Core Course Rule

16 Core Courses

If you enroll full time in a Division II college on or after August 1, 2013, and want to participate in athletics or receive an athletics scholarship during your first year, you must:

- Graduate from high school, 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).
- Earn a 2.0 grade point average or better in your core courses.
- Earn a combined SAT score of 820 or an ACT sum score of 68.

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 Clearinghouse. The student must have his/her ACT or SAT scores sent to the NCAA Eligibility Center each time the test is taken. 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.

Approved OHS Courses through the NCAA Clearinghouse

English	Social Science	Mathematics	Science	Miscellaneous
English I	American History	Algebra I	Physical Science	Spanish I

English II	Sociology	Geometry	Biology	Spanish 2
American Lit / World Lit	Psychology	Algebra 2	Chemistry I	Spanish 3
Creative Writing	Current Affairs	Pre-Calculus	Physics	Spanish 4
	Early World History	Statistics	Environmental Science	
	Modern World History	Calculus	Anatomy & Physiology	
	World Cultures	DMACC Calculus I	Chemistry II	
	Government	DMACC Statistics		

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 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: 05010
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) Semester 1 Credit
SCED Code: 05000
Prerequisite: Introduction to Agriculture
This course is designed to provide students a general overview of the livestock industry. It identifies the ways in which domestic animals serve the basic needs of human foods, fiber, shelter, protection, fuel, and emotional well-being. Students will develop an understanding of and be able to apply the basic principles of animal selection, breeding, genetics, feeding, health and husbandry practices. As a student you will become familiar with the economic and social issues that confront the livestock industry.

Plant Science/Horticulture (10-12) Semester 1 Credit
SCED Code: 05010
Prerequisite: Introduction to Agriculture
Students will explore hands-on projects and activities to learn the characteristics of plant science and work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers and producers, and plant research specialists face in their respective careers. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

Considerations: The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in plant science so that students may continue through a sequence of courses through high school.

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

Veterinary Science courses impart information about the causes, diagnosis, and treatment of diseases and injuries of animals, typically emphasizing domestic and farm animals. Course topics focus on anatomy and physiology, nutrition, behavior, and reproduction, but may also include other areas of study as appropriate.

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

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.

Art Courses

Jewelry & Crafts (9-12) Semester 1 Credit

SCED Code: 05166

Jewelry & Crafts is for students interested in two-dimensional and three-dimensional media to create functional art. The student will be introduced to jewelry & crafts related studio activities, terminology and art history/culture. Media will include: metal, paper, found objects wire, fibers and glass. 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.

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 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:
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:
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 (10-12) Semester 1 Credit
SCED Code: 12053
Prerequisite: Workplace Readiness
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 (10-12) Semester 1 Credit
SCED Code: 12163
Prerequisite: Workplace Readiness
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.

Computer Science Courses

Compter 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.

Hospitality and Tourism Management Courses

Hospitality and Tourism Management (9-12) Year 2 Credits
SCED Code: 16001
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.

Year 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) Year 2 Credits
SCED Code: 16152

Prerequisite: Hospitality and Tourism Management I
Year 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.

Travel Planner Geography (11-12) Semester 1 credit
SCED: 16155
Pre-requisites: HTM I, HTM II
This course will open the world of geography unlike you have experienced before, seeing the world as a travel professional …a kaleidoscope of places, people and experiences just waiting to be sampled. The why and how of travel worldwide, providing the knowledge and expertise to make recommendations to travelers.

Work-based Learning Opportunity: Students who take advantage of the opportunity to assist professional travel consultants during the busy season with airline reservations, seat assignments, and extensions, will provide added value with destination knowledge gained in this course. Travel Consultants are a part of the industry that businesses will find difficult to replace due to lack of job specific training in Iowa.

Certification Opportunity: The Travel Institute's Exploring the World Test Certificate, an entry-level competency test, $100.00 each.

Travel Planner (11-12) Semester 1 Credit
SCED: 16155
Pre-requisites: HTM I & HTM II; Travel Planner Geography
This course will equip students with the basic knowledge to pursue positions such as a travel agent, airline ticket agent, hotel reservationist, car rental reservationist or counter person and provide a deeper understanding of the travel industry and all of its components. An immersive experience that focuses on the five areas of travel*: Air,*

Ground Transportation, Accommodations, Tours and Packages, and Cruises.
Preparation to unlock a career in the travel industry meet the needs of travelers.

Work-based Learning Opportunity: I would like to speak with ITAGroup regarding the possibility of students who take this course 1st Semester and are Seniors to be able to connect with distanced Work-based Learning 2nd Semester in assisting professional travel consultants during the busy season with airline reservations, seat assignments, and extensions. Travel Consultants are a part of the industry that businesses will find difficult to replace due to lack of job specific training in Iowa.

Certification Opportunity: The Travel Institute's Travel Agent Proficiency (TAP) entry-level competency test, cost $100.00 each.

Restaurant and Banquet Service (11-12) Semester 1 Credit
SCED Code: 16052
Pre-requisites: HTM I & HTM II
This course would train students in customer service excellence within a restaurant, hotel banquet, or event center setting. Instilling value and a true commitment to highest-quality service as the most important component of restaurant and banquet/event success.

A professional, highly trained staff offers a competitive advantage for all foodservice operations, from practical service skills (i.e., counter service, setting the table, serving the food, and presenting the check) to less tangible service skills (i.e., creating a welcoming space, exhibiting a helpful attitude, and anticipating customer needs). How to deliver consistently outstanding service

The catering and events market is expanding rapidly, making superior service an absolute necessity for distinction and successful branding in the event planning industry. Training and advice on all aspects of exemplary banquet service. Covering everything from food and beverage service skills—such as setting up a buffet, butler service, tray service, pouring wine, and clearing tables. Key service points such as buffet setup, proper plate handling, and synchronized service techniques.

Work-based Learning Opportunity: Completion of this course would qualify students to participate in Work-based Learning in a restaurant setting such as The Lucky Pig. Possible development of an event work crew that would support area businesses on an as needed basis for set-up and service. Students may also be called upon for community service events, school functions, and The Lucky Pig Restaurant Take-over.

Certification Opportunity: American Hotel & Lodging Educational Institute offers a professional certification test, cost included with materials.

Event Management (11-12) Semester 1 Credit
SCED Code: 16155
Pre-requisites: HTM I & HTM II
This introductory course in Event Management will familiarize students with the skills needed to become a successful event manager. Events including meetings, conferences, weddings, sporting competitions, entertainment, and celebratory. From design, to planning, marketing, and staging an event. Insight on how to manage staff and staffing problems and to ensure the safety of everyone involved. Discussions of what is needed for legal compliance, risk management, financial control and successful event evaluation.

Students interested in entering the rapidly growing field of event management will gain knowledge and entry-level experience in preparation for post-secondary education available in the tenth top rated program in the United States at Iowa State University.

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.

Industrial Technology Courses

Exploring Industrial Tech (9-12) Year 2 Credits
SCED Code: 13003 Industrial Arts
This Industrial Arts course will allow students to explore the tools and equipment that they may encounter in Manufacturing, Construction and the Automotive related occupations and enable them to develop the basic skills they need to use these tools in various applications. Course topics typically include (but are not limited to) beginning drafting, woods processes, metals processes, and power technology. These topics will also cover general safety and career exploration as well.

Wood Processing/Production (10-12) Semester 1 Credit
SCED Code: 13054 Wood Processing/Production
Prerequisite: Exploring Industrial Tech
The Wood Processing/Production course allows students to study the physical and chemical properties of woods and composites made from woods and to use these materials to construct usable products according to industry standards. These courses enable students to experience the process of translating an idea into a finished product, with instruction in planning, designing, selecting materials, and using tools and machines.

Small Engines (10-12) Semester 1 Credit
SCED Code: 20109 Small Engines Mechanics
Prerequisite: Exploring Industrial Tech
This class covers the systems associated with the operation of a small, overhead valve, gas engine. The students will cover the engine systems and components as well as “tear down” an engine, inspect the parts and “rebuild” the engine. The engine will then be started for assessment.

CAD/3D Printing (10-12) Semester 1 Credit
SCED Code: 21107 CAD Design & Software
Prerequisite: Exploring Industrial Tech
CAD Design and Software courses introduce students to the computer-aided drafting systems available in the industry. Students will also learn basic software used for CNC Routers, CNC Plasma CAM, and Laser Printing.

Residential Wiring (10-12) Semester 1 Credit

SCED Code: 13003 Industrial Arts

Prerequisite: Exploring Industrial Tech

This class features the wiring practices used in single family residences. The students will learn the theories and best practices used in wiring through studying individual units, diagramming various circuits, and actual practice wiring using prefab walls. Each student will be required to demonstrate proper diagramming and then be able to "wire" various circuits for assessment. Circuits to be wired will include single switches, three-way switches, four-way switches, receptacle circuits and combination circuits.

Product Development (11-12) Semester 1 Credit

SCED Code: 13103 Product Development

Prerequisite: Exploring Industrial Tech, Intro To Welding, Wood Processing/Production

Fee: The fees will depend on the individual projects of the students.

Product Development courses provide students with the opportunity to focus on one or more areas of industrial technology to design or redesign a product to solve a problem. Students may build prototypes and working models and may evaluate the product and process according to industry standards.

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

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

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, discrimintion, 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

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

Pre-requisite: 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

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)***

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.

DMACC Applied Math (MAT 772) (11-12) Year 2 Credits
SCED Code 02153 3 DMACC Credits
Prerequisite: 2 years of high school mathematics
This is a course in elementary mathematical skills for technicians. Topics covered include fundamental operations with whole numbers, fractions, decimals, and signed numbers; percents; geometric figures and basic constructions; area and volume formulas; English/Metric systems; measurements and the interpretation of graphs and charts.

Students who want to receive 3 college math credits must receive a B- or better, otherwise the class will be offered for 3 college elective credits. **This only provides college math credit in certain majors.**
Technical Mathematics courses extend students' proficiency in mathematics, and often apply these skills to technical and/or industrial situations and problems. Technical Mathematics topics may include but are not limited to rational numbers; systems of measurements; tolerances; numerical languages; geometry; algebra; statistics; and using tables, graphs, charts, and other data displays. Technology is integrated as appropriate.

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 & Space 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 gase, 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.

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.

RAI Worksheet

Appendix A

Go to http://www.regents.iowa.gov/RAI/index.html to unofficially determine potential eligibility for admission to University of Iowa, Iowa State University, University of Northern Iowa.

Students from Iowa high schools planning to begin their studies in fall 2009 or later must have a Regent Admission Index score of at least 245 and take the minimum number of required high school courses to qualify for automatic admission 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 grade-point average, and the number of completed high school core courses.

ACT/SAT Score

_____

Core Courses

(English, math, science, social studies, foreign language)
1 year = 1 credit/point on RAI scale

9th Grade	
10th Grade	
11th Grade	
12th Grade	
Total	
GPA	
Class Rank	

Ogden High School

Appendix B

Add/Drop Class
Permission Form

Student Name:		**Grade:**	

Current Schedule	**New Schedule**	**Teacher Signature**
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Parent Signature:	
Counselor Signature:	