**Canton High School**



2015-2016

Registration Guide

***Helping Each Student Achieve Success***

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| Welcome to Canton High School |

Canton High School addresses our mission “Helping each student achieve success” by offering a range of quality classes for students.

## Introduction to Registration

The purpose of this registration book is to enable Canton High School students with the help of their parents, teachers, counselor and principal to develop the proper course selection which best meets the students’ needs. Students should select the program of study that correlates with their interests and abilities, and leads to the achievement of personal, educational and career goals. Students are encouraged to select courses that will stretch and challenge them, enabling them to explore all available opportunities.

All students (grades 9-11) must take 7 classes assignments each semester. All students involved in activities must PASS a minimum of 2.0 credits per grading period. Refer to the graduation requirement information, as well as the information on college admission requirements.

Carefully plan your schedule and complete your registration worksheet. Each student will register with help from a teacher, principal or counselor.

NOTE: If a required subject is failed, it MUST be repeated.

Important Notice for Graduation Requirements

It is the student’s responsibility to know if all requirements for graduation and college entrance are being met. It’s the student’s responsibility to understand the requirements to become a Regents Scholar and qualify for the Opportunity Scholarship. It is the student’s responsibility to register for the courses required for each grade level. Your teachers, counselor or principal are very willing to help you decide if your registration supports your career plans and graduation requirements.

**The ultimate responsibility for a proper registration rests with you, the student.**

South Dakota high school graduates completing the following high school courses with no final grade below a “C” (2.0 on a 4.0 scale) and an average grade of “B” (3.0 on a 4.0 scale) shall be designated as Regents Scholars and shall be eligible to receive a Regents Scholar Diploma upon request by a high school administrator to the Department of Education. High School graduates designated as Regents Scholars automatically are admitted to all six public universities.

**Regent Scholars Requirement**

The courses required for a Regents Diploma are:

* **4 units of English**, Courses with major emphasis upon grammar, composition, or literary analysis; one year of debate instruction may be included to meet this requirement.
* **4 units of algebra or higher mathematics**: Algebra, geometry, trigonometry, or other advanced mathematics, including accelerated or honors mathematics (algebra) provided at the 8th grade level; not included are arithmetic, business, consumer or general mathematics or other similar courses.
* **4 units of science, including 3 units of approved laboratory science**: Courses in biology, chemistry, or physics in which at least one (1) regular laboratory period is scheduled each week. Qualifying physical science or earth science courses (with lab) shall be decided on a case by case basis.
* **3 units of social studies**: History, economics, sociology, geography, government—including U.S. and South Dakota, American Problems, and similar courses.
* **2 units of modern or classical language (includes American Sign Language)**: The two units must be in the same language.
* **1 unit of fine arts**: Coursework in art, theatre or music. Such credit may be in appreciation, analysis, or performance.
* **½ unit of computer science:** Students will have basic keyboarding skills and have had experience in using a personal computer including word-processing, database and spreadsheet software and in using the Internet or other wide area networks.

South Dakota Opportunity Scholarship Requirements

**South Dakota Opportunity Scholarship Requirement**

The South Dakota Legislature established five requirements that all South Dakota high school graduates must meet in order to establish their initial eligibility in the Opportunity Scholarship program. These requirements specify that a recipient must:

1. Be a resident of South Dakota at time of high school graduation.
2. Have an ACT composite score of 24 or higher before the beginning of post-secondary education. If using a SAT score, the sum of the verbal and mathematics scores on the SAT must be at least 1090.
3. Complete [high school course requirements](http://sdos.sdbor.edu/require/require.cfm) with no final grade below a "C" (2.0 on a 4.0 scale) and a cumulative high school GPA of 3.0 on a 4.0 scale (grade of "B") prior to graduation (Note: One unit of high school credit equals 1 year of instruction).
4. Effective for those students entering into postsecondary education for the first time on or after August 2013, the curriculum requirements specified in section 3 above are not required for any student who has received a composite score on the ACT of at least 28 and meets the ACT college readiness benchmarks scores equaling or exceeding 18 for English, 21 for Reading, 22 for Math, and 24 for Science.
5. Attend a university, college, or technical school accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools and that provides instruction from a campus located in South Dakota.
6. Enter into the program within 5 years of high school graduation, or within 1 year of the student's release from active duty military service (if that release is within 5 years of the date of the student's high school graduation). Students seeking to transfer from a regionally accredited university, college, or technical school located outside of South Dakota may do so within two years following high school graduation and be eligible to receive partial award.

***Students seeking to determine whether coursework will be counted are encouraged to talk to the school counselor.***

**Requirements for Freshman College Entrance at a South Dakota College or University**

To be a candidate for admission to a baccalaureate degree program, students must achieve one of the following:

* Graduate in the top 60% of their high school graduation class

(University of South Dakota – top 50%).

* Achieve an ACT composite score of 18 or above (University of South Dakota – 19)
* Earn a cumulative GPA of at least a 2.6 on a 4.0 scale.

Along with one of the previous requirements you must complete the following required courses with a cumulative GPA of a “C” or higher (2.0 on a 4.0 scale):

* **4 credits of English;** or ACT English sub-test score of 18 or above; or AP English score of 3 or above.
* **3 credits of Advanced Mathematics**\*; or ACT Math sub-test score of 20 or above; or AP Calculus score of 3 or above.
* **3 credits of Laboratory Science**\*\*; or ACT Science Reasoning sub-test score of 17 or above; or AP Science score of 3 or above.
* **3 credits of Social Science;** or ACT Social Studies/Reading sub-test score of 17 or above; or AP Social Studies score of 3 or above.
* **1 credit of Fine Arts;** or AP Fine Arts score of 3 or above.

\* Advanced Math must be algebra or any higher level math course.

\*\* Lab Science must be biology, chemistry, physics or approved physical science course.

**Students are advised to check the requirements of each college of interest, particularly the foreign language, science and math requirements, since they vary from school to school.**

**Admission Requirements for SD Technical Institutes**

Post-secondary technical institute admission is based on individual program requirements. All applicants must submit a high school transcript and standardized test scores. Students who plan on pursuing technical education are advised to enroll in academically challenging subjects at the high school level, especially math, science and computers.

The state-funded post-secondary technical institutes in South Dakota are:

Lake Area Technical Institute – Watertown Mitchell Technical Institute – Mitchell

Southeast Technical Institute – Sioux Falls Western Dakota Technical Institute- Rapid City

**Dual Enrollment and Articulation Agreements**

Courses offered to the high school student through one of South Dakota’s postsecondary schools mean dual credit at the high school and at the university level.

Articulation is a cooperative effort between CHS and any vocational/technical school in South Dakota allowing students to receive credit for skills mastered in high school. Articulation coordinates high school courses with vocational programs so students can take courses in high school that may eliminate the need to take some introductory courses in their chosen degree or certificate area.

**AP Classes (Advanced Placement)**

Through Advanced Placement classes, students have the opportunity to study courses that are equivalent to first-year college courses. Following instruction in AP classes, the students can take examinations for a nominal fee. These examinations demonstrate that they have obtained the knowledge and skills of comparable college courses. Students must present their AP scores when they enroll in a college/university.

**NCAA & NAIA Requirements**

**NCAA Requirements**

As a perspective student-athlete at a Division I or II institution, you are responsible for fulfilling the requirements for participation.Information concerning who needs to register with the NCAA Clearinghouse and necessary documentation can be found at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net).

**NAIA Requirements**

As a perspective student-athlete at an NAIA institution, you are responsible for fulfilling the requirements for participation. Information concerning who needs to register with the NAIA Eligibility Center and necessary documentation can be found at [www.playnaia.org](http://www.playnaia.org).

**A student’s Personal Learning Plan must document a minimum of 24 credits that include the following:**

**Canton High School Graduation Requirements**

**Four units of Language Arts – must include:**

* English 1- 1 unit
* English 2- .5 unit
* Speech- .5 unit
* English 3- .5 unit
* American Literature - .5 unit
* Composition- .5
* English Elective- .5

**Three units of Mathematics – must include:**

* Algebra 1 – 1 unit
* \*Algebra 2 – 1 unit
* \*Geometry – 1 unit

**Three units of Lab Science – must include:**

* Physical Science – 1 unit
* Biology – 1 unit
* \*Chemistry or Physics – 1 unit

**Three units of Social Studies – must include:**

* World Geography – .5 unit
* World History – .5 unit
* American History – 1 unit
* Government – 1 unit

**One unit of the following – any combination:**

* Approved Career & Technical Education courses
* Capstone Experience or Service Learning
* World Languages

**One unit of Fine Arts**

**One-half unit of Personal Finance or Economics**

**One-half unit of Physical Education**

**\*\*One-half unit of Health or Health Integration (class of 2017 and beyond)**

\* Waiver – With school and parent/guardian approval, a student may waive this course in favor of a more appropriate course. A student may waive Algebra 2 or Geometry; the student cannot waive both. A student is still required to take three units of Math. If a student waives Chemistry and/or Physics, the student must still take three units of Lab Sciences. Parents and the student will be required to sign a statement that acknowledges that by not taking Geometry or Algebra 2 or Chemistry or Physics that the student may not meet South Dakota Board of Regents criteria for entrance into a college or university.

\*\*Regarding health requirement: Beginning with the class of 2017 and beyond, students will be required to take .5 unit of health at any time during grades 6-12. This requirement can be met through middle school coursework. There will be no grade earned or credit assigned; and therefore, it does not count toward the student’s GPA.

**Canton High School Four-Year Plan**

**Economics or Personal Finance - .5 unit**

□ Economics OR Personal Finance

**English – 4 units**

□ English 1

□ English 2

□ Speech

□ English 3

□ American Literature

□ Composition or College Composition

**Minimum of .5 English Elective from the following courses:**

□ Intro to Literature 210; OR

□ Mythology; OR

□ Ethnic Literature

□ Modern Literature; OR

□ Journalism I,II; OR

□ College Speech

**Fine Arts – 1 unit**

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**\*Mathematics – 3 units**

(1 unit must equal Algebra 1 - 8th Grade Algebra fulfills this requirement; \*students may waive Geometry or Algebra 2, but not both. 3 credits still required)

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**Physical Education .5 Unit**

□ Physical Education

**Health or Health Integration .5 Unit**

□ Health

**Science – 3 units**

□ Physical Science

□ Biology

□ Chemistry

□ Physics

□ Other Science \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

□ Other Science \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Social Studies – 3 unit**

□ World Geography

□ World History

□ American History

□ Government

**Other Requirement − 1 unit in any combination**

□Approved Career & Technical Education

□ Capstone Experience or Service Learning

□ World Language

□ Computer Studies

**Electives – 7 units**

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**Introducing the 16 Career Clusters**

Career planning involves career awareness activities taking place in elementary, middle, and high school that prepare students to choose a general area of interest in which to concentrate their studies. These areas of interest are called **career clusters.**

The sixteen **Career Clusters** are:

|  |  |
| --- | --- |
|  | The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources. |
|  | Careers in designing, planning, managing, building and maintaining the built environment. |
|  | Designing, producing, exhibiting, performing, writing, and  publishing multimedia content including visual and performing  arts and design, journalism, and entertainment services. |
|  | Business Management and Administration careers encompass  planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy. |
|  | Planning, managing and providing education and training services, and related learning support services. |
|  | Planning, services for financial and investment planning, banking, insurance, and business financial management. |
|  | Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels. |
|  | Planning, managing, and providing therapeutic services,  diagnostic services, health informatics, support services, and  biotechnology research and development. |
|  | Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services. |
|  | Preparing individuals for employment in career pathways that  relate to families and human needs. |
|  | Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services. |
|  | Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services. |
|  | Planning, managing and performing the processing of materials  into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering. |
|  | Planning, managing, and performing marketing activities to reach organizational objectives. |
|  | Planning, managing, and providing scientific research and  professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.- |
|  | Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related  professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance. |

**REGISTRATION GUIDE INDEX BY DEPARTMENT**

# COURSE NAME-COURSE # PREREQUISITES CLASS RECOMMENDATION CREDIT PAGE

**BUSINESS DEPARTMENT**

Intro to Business 9-12 .5 14

Accounting I 9-12 .5 14

Accounting II Accounting I 10-12 .5 14

Entrepreneurship Experience 10-12 .5 14

Sports/Entertainment & Marketing 11-12 .5 14

**COMPUTER DEPARTMENT**

Commercial Graphic Design 9-12 .5 15

Photographic Arts (Commercial Graphic Design) 10-12 .5 15

Computer Graphics 9-12 1.0 15

Visual Basic Programming 11-12 .5 15

**ENGLISH DEPARTMENT**

English 1 9 1 16

English 2 10 .5 16

Speech 10 .5 16

English 3 11 .5 16

American Literature 11 .5 16

Senior Composition 12 .5 17

English 101: College Comp. Instructor Approval 12 .5 17

Contemporary Literature 11-12 .5 17

Modern Literature 10-12 .5 17

Ethnic Literature 11-12 .5 17

British Literature 11-12 .5 17

English 210: Intro to Lit Instructor Approval 12 .5 18

College Speech Instructor Approval 12 .5 18

Mythology 10-12 .5 18

Film Studies 11-12 .5 18

Journalism I 10-12 1 18

Journalism II Journalism I & Instructor Approval 10-12 1 18

**FINE ARTS DEPARTMENT**

Band 9-12 1 19

Jazz Band 9-12 1 19

Women’s Chorus 9-12 .5 19

Concert Choir 9-12 1 19

Guitar I/II 9-12 .5 19

Drama 11-12 .5 19

Basic Design 9-12 .5 19

Crafts Basic Design 9-12 .5 20

Mixed Media Basic Design 9-12 .5 20

Ceramics I Basic Design 10-12 .5 20

Ceramics II Ceramics I 10-12 .5 20

Ceramics III Ceramics I,II 10-12 .5 20

Drawing & Painting I/II Painting and Drawing 10-12 .5 20

**FOREIGN LANGUAGE DEPARTMENT**

Spanish 1 9-12 1 21

Spanish 2 Spanish 1 10-12 1 21

Spanish 3 Spanish 2 11-12 1 21

German 1 9-12 1 21

German 2 German 1 10-12 1 21

French 1 9-12 1 21

**COURSE NAME-COURSE # PREREQUISITES CLASS RECOMMENDATION CREDIT PAGE**

**MATHEMATICS DEPARTMENT**

Pre- Algebra 9-10 1 22

Algebra 1 9 1 22

Algebra 2 10-11 1 22

Geometry Algebra 1 9-12 1 22

Trigonometry/Pre-Calculus Algebra 2 11-12 1 22

AP Calculus Trig/Pre-Calc 12 1 22

College Algebra Algebra 2 12 1 22

Consumer Math 11-12 1 22

**PHYSICAL EDUCATION DEPARTMENT**

Physical Education 9 .5 23

Health 9-10 .5 23

Personal Fitness 1/2 9-12 .5 23

Yoga/Pilates 1/2 10-12 .5 23

Recreational & Team Sports 1/2 9-12 .5 23

Individual Sports 9-12 .5 23

Weight Lifting I 9-12 .5 23

Weight Lifting II 9-12 .5 23

**SCIENCE DEPARTMENT**

Physical Science 9 1 24

Biology 9-10 1 24

Chemistry Biology 10-12 1 24

Conceptual Chemistry Biology 10-12 1 24

Advanced Chemistry Chemistry 11-12 .5 24

Physics Geometry 11-12 1 24

Anatomy/Physiology Biology 11-12 1 25

Principles of Biomedical Science Biology 10-12 1 25

**SOCIAL STUDIES DEPARTMENT**

World Geography 9 .5 26

Modern World History 10 .5 26

Modern American History 11 1 26

Archaeology & The Ancient World 10-12 .5 26

American Government 12 1 26

AP American Government 12 1 26

Personal Finance 10-12 .5 26

Psychology 11-12 .5 26

Sociology 11-12 .5 26

**CAREER AND TECHNICAL EDUCATION DEPARTMENT**

**AGRICULTURE**

Introduction to Ag 9 1.0 27

Wildlife & Fisheries 9-12 .5 27

Ag Metal Fabrication 10-12 1.0 27

Ag. Building Construction 11-12 .5 27

Fundamentals Ag Mechanics 10-12 .5 27

Food Science 9-12 .5 27

Fundamentals Animal Science 9-12 .5 28

Agronomy-Plant Science 9-12 .5 28

Ag. Power Technology 10-12 .5 28

**INDUSTRIAL TECHNOLOGY**

Introduction to Manufacturing 9-12 .5 28

Introduction to Architecture and Construction Intro to Manufacturing 9-12 .5 28

Intermediate Woods Basic Woods 10-12 29

Advanced Woods Intermediate Woods 10-12 1 29

**COURSE NAME-COURSE # PREREQUISITES CLASS RECOMMENDATION CREDIT PAGE**

**Industrial Technology Cont’d.**

Advanced Shop Adv. Woods & Instructor Approval 11-12 .5 29

Aviation Instructor Approval 10-12 .5 29

Cabinetry Intermediate Woods 10-12 .5 29

Intro to Building Trades Intro to IT 10-12 .5 29

Electricity & Plumbing Intro to IT 10-12 .5 29

**FINANCE**

Accounting I 9-12 .5 30

Accounting II Accounting I 10-12 .5 30

Personal Finance 10-12 .5 30

Entrepreneurship Experience 12 .5 30

**PROJECT LEAD THE WAY**

Principals of Engineering Geometry or higher 10-11 1 31

Civil Engineering & Architecture Biology & Geometry 10-12 1 31

Principles of Biomedical Sciences Biology 11-12 1 32

**STUDENT MENTOR** Instructor Approval 12 0 32

**BUSINESS DEPARTMENT**

**Intro to Business E 9-12 Sem ½ Credit**

Students are introduced to the world of business. Introduction to Business covers the types of businesses in our economy as well as how they operate. This course also helps students understand the roles of consumers in business’ decision making and their roles of citizenship. Other topics covered are an introduction to consumer credit, stock markets, and banking.

**Accounting 1 E 9-12 Sem ½ Credit**

Accounting covers the financial aspect of business. It is the process of receiving and expending cash as well as moving cash to specific areas of a business. This course covers the basic principles of bookkeeping for a service business and merchandising business. Basic principles include the accounting equation, journalizing & posting, financial statements, and the accounting cycle.

**Accounting 2 E 10-12 Sem ½ Credit**

**PR – *Accounting I***

Accounting II is a continuum of material from Accounting I. Topics covered in Accounting II includes accounting for uncollectible accounts, accounting for plant assets/depreciation, notes payable/receivable, and corporate accounting.

**Entrepreneurship Experience E 10-12 Sem ½ Credit**

Entrepreneurship is an independent, self-guided course for students who are interested in organizing a start-up business.  Each student has a business professional as a mentor who assists them with business questions as well as an academic advisor who helps with the overall direction of their coursework.  Students complete the necessary requirements for the course almost entirely independently. At the end of the semester, the student will present their business proposal to a committee of administrators, teachers, and business members in a formal presentation setting.

**Sports and Entertainment Marketing E 11-12 Sem ½ Credit**

Sports and Entertainment Marketing is a unique and innovative course designed for students with an interest in the sports and entertainment industry. This course stressed the utilization of fundamental marketing concepts and will include an orientation to the sports and entertainment industry. Marketing strategies along with topics in sponsorship, pricing, marketing research, endorsements, and promotions will be part of this course.

**COMPUTER DEPARTMENT**

**Commercial Graphic Design (Graphic Design I) E 9-12 Sem ½ Credit**

This course introduces students to two types of graphic design, video editing and image editing. Students will use camcorders and digital cameras to capture video and images to illustrate comprehension of methods covered during classroom tutorials. Software used for the class includes Cyberlink PowerDirector and Photoshop.

**Photographic Arts (Graphic Design II) E 10-12 Sem ½ Credit**

**PR-*Commercial Graphic Design***

This course is a continuum of Graphic Design I. The same software is utilized, but will require more advanced problems and projects. The curriculum requires a deeper understanding of visual literacy and marketing techniques to obtain a finished product people savor.

**Computer Graphics (Digital Animation I) E 9-12 Year 1 Credit**

This course introduces students to fundamental concepts, principles, and practices of 3D digital modeling. Topics covered in this course include: production of geometric and organic surfaces, polygon construction and surfaces. The primary 3D modeling and rendering software used in this course will be AutoDesk Studio Max 3D.

**Visual Basic Programming E 10-12 Sem ½ Credit**

This course is designed for students with a desire to learn both the graphic interface and execution of applications in a Windows environment. Students will also learn how a computer analyzes programming code. Topics covered are the processing cycle, designing an application, coding an application, debugging an application, and analyzing needs for design based on user wants and needs.

**ENGLISH DEPARTMENT**

**English 1 R 9 Yr 1 credit**

This course is offered to give students an opportunity to explore a variety of different types of literature and to explore different writing styles. Literature will include the following: 1) a play – *Romeo and Juliet*, 2) an epic poem – *The Odyssey*, 3) short stories, and 4) a modern novel – *The Outsiders*. Grammar, usage, and vocabulary will be utilized to enhance student writing. Students will develop their own sense of style as they learn the basic styles of writing. They will write essays that include: expository, persuasive, narrative and descriptive essays.

**English 2 R 10 Sem ½ credit**

This course will utilize what students have learned during their freshman year and challenge them to develop a more complex writing style.  Grammar and vocabulary will be used to improve written expression.  Analysis of Grammar will also be developed, and the usage of both Grammar and vocabulary will be strengthened by the writing of journals.  Students will analyze different literary genres which include: 1) short stories, 2) non-fiction essays, 3) poetry in the form of music lyrics, and 4) one full length play.  Finally, students will further develop skills in research and writing by engaging in their own research project.

**Speech R 10 Sem ½ credit**

This course is offered to give students an opportunity to prepare themselves for public speaking with an emphasis on the importance of communication throughout their lives. They will prepare, deliver, and analyze a variety of speeches. These speeches will include: an impromptu speech, a personal anecdote speech, a demonstration speech, an interpretive speech, an informative speech, and a persuasive speech. Included within the scope of the semester, the students will read two novels – *Tuesdays With Morrie* and *Uglies.* The novels will be used in conjunction with the speech curriculum in order to emphasize different types of communication in a real-world discussion format.

**English 3 R 11 Sem ½ credit**

This course consists of a study toward American society using the novel “To Kill a Mockingbird” written as an inside look to the injustices of a segregated America. Students will also develop skills to enhance written expression by first learning and practicing the writing process and then by writing a variety of papers, which include literary analysis, comparison, persuasion, and research.  Grammar will not be formally taught as it was in English 1 and 2, but papers will be thoroughly scrutinized for grammar errors and sentence construction errors.

**American Literature R 11 Sem ½ credit**

This course will examine literature as a natural progression of the country and how fiction and non-fiction can be utilized to represent that progression. Students will study a variety of time periods and the literature associated with those time periods. Vocabulary, writing and literary analysis will be used to focus the exploration of the following units: 1) Puritan Literature – poetry, short stories, and a play, 2) American Revolution – historical documents, 3) Western Expansion – short stories, 4) Civil War - poetry, songs and short stories, 5) Depression – Of Mice and Men and 6) Future of America – *The Hunger Games.* A foundation will be laid for test preparation with grammar, usage, and reading strategies.

**Senior Composition R 12 Sem ½ credit**

This course is designed for students who need to fulfill the writing requirement to graduate, but they may not plan on attending a college or university. Emphasis will be placed on paragraph study with an exploration of different writing styles. They will be expected to write a modified research paper and they will write and design a senior project (A Senior Memory Book). The main difference between Advanced Composition and Practical Composition will be the length of the writing assignment and the expectation of prior knowledge (in Advanced Composition).

**ENGL 101: College Composition R 12 Sem ½ credit & 3 college credit hours**

This is a dual credit course through the Rising Scholars program at NSU. The course is an introductory survey of college composition. Students will submit the required Senior Memory book as well as a variety of essays and research papers that will prepare them for the university setting. The student must meet the minimum ACT sub score of 18 in Reading and Writing and at least a proficient score on the Dakota Step Test. The student will also be responsible for the cost of the college tuition, which will be approximately $50 per credit hour. This course requires teacher approval. This course is worth 3 college credits.

**Contemporary Literature E 11-12 Sem ½ credit**

This course is an exploration of literature written from the 1950’s to the present. Different genres will be explored throughout the semester. They will include: (1) fantasy – *Dragonsong,* (2) humor – *Heir Apparent,* (3) mystery – *And Then There Were None, (4)* science fiction – *The Chrysalids, and (5)* adventure – *Jurassic Park.* The novels will focus on different genres and give students an opportunity to read different styles of literature and develop a personal taste for different genres.

**Modern Literature (Futuristic) E 10-12 Sem ½ credit**

This course explores the world of the future through novels. There futuristic novels based on possible societies pose great questions of where the present generation could lead us. Students will analyze the texts and create projects that inspire growth and change in society. The following units will be covered: (1) Futuristic Worlds, (2) World Annhilation – *Life as We Knew It* and *The Dead and the Gone,* (3) Medical Technology – *Unwind,* (4) Alien Encounter – *Shade’s Children,* and (5) Space Travel/Worlds at War – *Ender’s Game.*

**Ethnic Literature E 11-12 Sem ½ credit**

This course is an exploration of literature written about and by different ethnic groups. Different genres will be explored throughout the semester. They will include: myths/legends, poetry, non-fiction, (novels and speeches), and Holocaust novels.

**British Literature E 11-12 Sem ½ credit**

At the end of the semester, students will be able to do the following: Recognize different time periods and the literature associated with them in British literature; evaluate the writing style of a variety of different authors; discuss their thoughts while learning to debate issues and ideas in a coherent and pleasant manner; write a variety of papers that analyzes their thoughts, feelings, and interpretations of the literature that they read.

**ENGL 210: Intro to Literature E 12 Sem ½ credit & 3 college credit hours**

This is a dual credit course through the Rising Scholars program at NSU. The course is an introductory survey of literature from a wide variety of genres and countries. The student must meet the minimum ACT subtest score of 18 in Reading and Writing, a proficient score on the Dakota Step and faculty approval. The student will also be responsible for the cost of the college tuition, which will be approximately $50 per credit hour. This course requires teacher approval. This course is worth 3 college credits

**College Speech E 12 Sem ½ credit & 3 college credit hours**

This is a dual credit course through the Rising Scholars program at NSU. This course introduces the study of speech fundamentals and critical thinking through frequent public speaking practice, including setting, purpose, audience, and subject. The student must meet the minimum ACT sub score of 18 in Reading and Writing and at least a proficient score on the Dakota Step Test. The student will also be responsible for the cost of the college tuition, which will be approximately $50 per credit hour. This course requires teacher approval. This course is worth 3 college credits.

**Mythology E 10-12 Sem ½ credit**

This course is an exploration of mythology from five different cultures and modern writings based on the cultural mythology. The different cultures explored throughout the semester will include: Greek, Native American, Celtic, Norse and Chinese.

**Journalism I                      E                    9-12              Yr               1 credit**

This journalism course emphasizes the development of skills in photo shop, illustrator, and photography.  These skills can be used to enhance the production of the yearbook and ECHO.  NCAA Clearinghouse for Division 1 or 2 does not accept this as an English elective.  This course may be taken more than once.

**Journalism II E 10-12 Yr 1 credit**

***PR-Journalism for 10-11 grades***

***No PR for seniors***

Journalism is a prerequisite for all non-seniors. Seniors may take this course without taking Journalism. This course deals 100% with the yearbook. Students will design the yearbook on-line, be responsible for all pictures (including senior pictures and baby ads) as well as advertising. The course may not be dropped at the semester break since most of the finishing work for the yearbook will take place during the spring semester. NCAA Clearinghouse for Division 1 or 2 does not accept this as an English elective. This course may be taken more than once. This course requires teacher approval.

**Film Studies E 11-12 Sem .5 credit**

This course is designed to help students develop the skills to “read” a movie. They will learn about film genres and conventions, explore the ways that directors express their interpretation of a story or script, and consider the

literary elements of film (for example, foreshadowing, character development, symbolism and dialogue). Of

course, students will spend time looking at how music and cinematic techniques affect the experience of fil

m and reflect the interpretive choices directors make as they bring their vision to the screen. To develop these skills, they will be doing several short (1 – 3 page) writing assignments, including at least one movie review; they will also participate in small group work and class discussion.

**FINE ARTS DEPARTMENT**

**Band E 9-12 Yr 1 credit**

The band program is designed to develop musicianship and give young players opportunities to mature musically. All band students will audition for chair placement in October. Participation in the marching band, concert band, wind ensemble, jazz band, pep band, solo and ensembles, and performing for many activities helps students learn more about music through the development of technical skills on an instrument and brings students an understanding and appreciation of good music.

**Jazz Band**

This ensemble is available if and when we have enough student musicians to support it. It is comprised of the traditional Big Band instrumentation of saxophones, trumpets, trombones, and rhythm sections (piano, bass, drums). Other instruments are also welcomed including flutes, clarinets, French horns, baritones, tubas and guitar. Students enrolled in this class will learn the basics of several jazz styles, sounds, balance and terminology. Rehearsals will be held during the school day. This is a performance-based class; therefore, students are expected to attend all rehearsals, sectionals and performances (the Winter Concert in December and the Spring Concert in May, as well as others that may be scheduled).

**Women’s Chorus E 9-12 Sem ½ credit**

A choir made up of women in grades 9-11. This is an open choir, anyone may join and be a part of this ensemble. All members will perform at concerts and contests. Students will also have the opportunity to audition for All-State Choir, Honor Choir, Pops Concert Solos, and go on the choir trip.

**Concert Choir E 9-12 Yr 1 credit**

This is an auditioned choir for singers who can maintain an accurate pitch, sight-sing new notation, memorize for performance and sing harmony. The choir members may audition for the South Dakota All State Chorus, and must participated in Region One Solo/Ensemble Competition in February, take voice lessons each week from the vocal music director or outside of school with a private instructor, and perform three concerts during the year. The choir sings for Homecoming and for graduation.

**Drama E 11-12 Sem ½ credit**

This course is designed for students who wish to develop an appreciation for and an understanding of drama. The emphasis is on reading, visualizing, staging and portraying drama. A final play performed for an audience is a requirement in this course.

**Guitar I E 9-12 Sem ½ credit**

Learning the basics of guitar: anatomy of the guitar, tunings, finger placements, and strumming patterns.

**Guitar II E 9-12 Sem ½ credit**

Advanced techniques of guitar: picking patterns, solos, bar chords.

**Basic Design E 9-12 Sem ½ credit**

This course is designed to serve as the foundation for students in the Visual Arts program. Students will be exposed to several mediums, from colored pencils and ink to clay and watercolors. This course needs to be completed before moving onto any other art course.

**Crafts E 9-12 Sem ½ credit**

***PR—Basic Design***

This course focuses on the more 3 dimensional hands on aspects of art. Projects include printmaking, making collages, plaster craft, and wire sculptures.

**Mixed Media**

**PR—Basic Design E 9-12 Sem ½ credit**

Students will explore techniques, materials, and innovative combinations.  Experimenting will take place with collage, drawing, painting, and mixed media projects including watercolor, acrylic, ink, found objects.  Students will investigate collage, printmaking, photo transfers, monotype and assemblage techniques.  Rather than distinguishing each medium as separate genres of art, this class allows students to explore their exciting in-between territory within layered individual works.  A focus will be on a semester long altered-book project.

**Ceramics I E 10-12 Sem ½ credit**

***PR—Basic Design***

A course designed to provide students with an opportunity to further develop skills and understanding of the clay medium as an artistic form of expression. Emphasis is placed on learning skills necessary to do hand building and wheel thrown forms, decoration and self-expression.

**Ceramics II E 10-12 Sem ½ credit**

***PR—Ceramics I***

A course designed to provide students with an opportunity to continue the exploration of basic hand building and wheel throwing techniques. There will emphasis placed on developing proficiency in clay use, surface applications, and kiln firings.

**Ceramics III E 10-12 Sem ½ credit**

**PR—Ceramics II**This course continues where Ceramics II left off by allowing more opportunities to further explore hand building and wheel throwing skills.

**Drawing and Painting I & II E 10-12 Sem ½ credit**

**PR-Basic Design**

This course will provide the opportunity to further develop skills, explore, and control the depiction of

volume and space through drawing and painting.  Drawing is the foundation of any painting, thus increasing the importance of drawing with accuracy and detail.  In comparison to Drawing I and Painting I, this class will allow more creative freedom.

**FOREIGN LANGUAGE DEPARTMENT**

# Spanish 1 E 9-12 Yr 1 credit

# Students will demonstrate skills in speaking, writing, reading and listening in Spanish. An integrated, hands-on curriculum is used to introduce vocabulary, grammar and sentence structure necessary in building beginning conversational skills.  This course also emphasizes the study of Hispanic customs and cultures.  Students will compare and contrast Spanish and its cultures to their own language and culture, connect Spanish to other areas of study, and use Spanish for personal use outside the classroom.

# Spanish 2 E 10-12 Yr 1 credit

# *PR – Spanish 1*

Students will demonstrate skills in speaking, writing, reading and listening in Spanish. An integrated, hands-on curriculum is used to introduce vocabulary, grammar and sentence structure necessary in building intermediate conversational skills.  This course also emphasizes the study of Hispanic customs and cultures.  Students will compare and contrast Spanish and its cultures to their own language and culture, connect Spanish to other areas of study, and use Spanish for personal use outside the classroom.

**Spanish 3 E 11-12 YR 1 credit**

**PR- *Spanish 2***

Students will demonstrate skills in speaking, writing, reading and listening in Spanish. An integrated, hands-on curriculum is used to introduce vocabulary, grammar and sentence structure necessary in building advanced conversational skills.  This course also emphasizes the study of Hispanic customs and cultures.  Students will compare and contrast Spanish and its cultures to their own language and culture, connect Spanish to other areas of study, and use Spanish for personal use outside the classroom.

**French 1 E 9-12 YR 1 credit**

Students will demonstrate skills in speaking, writing, reading and listening in French. An integrated, hands-on curriculum is used to introduce vocabulary, grammar and sentence structure necessary in building beginning conversational skills.  This course also emphasizes the study of Francophone customs and cultures.  Students will compare and contrast French and its cultures to their own language and culture, connect French to other areas of study, and use French for personal use outside the classroom.

**German 1 E 9-12 YR 1 credit**

German I introduces the German language and culture to students.  Course work will demonstrate learning through speaking, reading, writing, and listening projects.

**German 2 E 10-12 Yr 1 credit**

***PR –German 1***

The second year of German continues the study of basic concepts and expands by focusing on newer grammar concepts, cultural awareness and understanding, reading comprehension, composition, and conversation.

**(All those applying for Regent Scholars are required to have two years of foreign language.)**

**MATHEMATICS DEPARTMENT**

# Pre-Algebra R 9-10 Yr 1 credit

This course is designed to help students understand the basic structure of Algebra and mathematical fundamentals. This course will follow the same general format as Algebra 1, but the amount of material covered in one year will be less with more emphasis on each section.

# Algebra 1 R 9-12 Yr 1 credit

This course is designed to help students understand the basic structure of Algebra. This course qualifies as a college prerequisite.

# Geometry R 9-12 Yr 1 credit

# *PR—Algebra 1*

This course centers within the development of geometry as a logical, abstract science.

# Algebra 2 R 10-12 Yr 1 credit

# *PR—Geometry*

This course is an advanced math class for college-bound students who will need an extensive math background. It starts with a review of basic skills learned in Algebra 1 and progresses to solving rational equations, complex numbers, conic sections, analytical geometry, exponential equations, quadratic functions, series, sequences and logarithms.

# Trigonometry/Pre-Calculus E 11-12 Yr 1 credit

# *PR – Algebra 2*

The first semester will focus on Trigonometry (solving right triangles, investigating graphs, solving trig equations, and simplifying trig expressions). The second semester will include topics covered in discrete mathematics (such as vectors and matrices) and Pre-Calculus (limits, simple integration, and derivatives)

# AP Calculus E 12 Yr 1 credit

# *PR—Trigonometry/Pre-Calculus*

This rigorous course is for the accelerated math student. The rules, concepts, and techniques used in both differential and integral calculus are covered. Use of a graphing calculator will be an integral part of this class. This course prepares the student for the AP Calculus test.

# College Algebra 110 E 12 Yr 1 credit

# PR-Algebra 2

This rigorous course is for the accelerated math student. The rules, concepts, and techniques used will cover math concepts taught at the beginning college level. This course will earn the student four college credits. The student is responsible for paying for the credit.

# Consumer Math E 11-12 Yr 1 credit

This course provides students with an opportunity to learn and apply math skills necessary for everyday living. Budgeting, insurance, calculating bank loans, and maintaining savings and checking accounts will be covered. This course does NOT qualify as a college prerequisite.

An articulation agreement exists with Southeast Technical Institute, which provides an opportunity for post-high school credit.

# Physical Education R 9 Sem ½ credit

**PHYSICAL EDUCATION/HEALTH/CAREERS DEPARTMENT**

This course will introduce students to the concepts and practices of personal fitness. Students will be required to dress appropriately for physical activity and be required to participate in all instructional activities. The goal of this course is to help students develop habits for a healthy life style.

# Health E 9-10 Sem ½ credit

The students will study the overall well being of their body, mind, and their relationships with others.

# Personal Fitness 1 & 2 E 9-12 Sem ½ credit

This course is designed to meet the individual fitness needs of all students in the class. It will include fitness programs that are tailored to the individual needs and goals of each student.

# Yoga/Pilates 1 & 2 E 10-12 Sem ½ credit

This course is designed to meet the individual fitness needs of all students in the class. It will include yoga and Pilate’s instruction.

# Recreational and Team Sports 1 & 2 E 9-12 Sem ½ credit

This course will introduce students to the concept and knowledge of basic Team Sports rules, activity, and safety in participation. Activities include: football, soccer, lawn games, wiffle ball, golf, ultimate frisbee, bowling, volleyball, archery, net games, matt games, biking.

**Individual Sports E 9-12 Sem ½ credit**

This course will introduce students to understand that physical activity provides opportunities for enjoyment, challenge, self-expression, social interaction, and employment. Activities include: golf, frisbee golf, lawn games, fly fishing, archery net games, board games.

**Weight Lifting I E 9-12 Sem ½ credit**

This is a beginner’s course for students who have no weightlifting experience. This course will introduce the fundamental skills of weight training for personal fitness. Emphasis will be placed on proper techniques, training programs, nutrition, and the overall benefits of weight training.

**Weight Lifting II E 9-12 Sem ½ credit**

This course is designed more for the athletes with weight training experience. This course will include high intensity weight training and aerobic activity. Students will learn numerous ways to train their bodies and minds at high levels of intensity. This course will introduce different forms of lifting when it comes to: supersets, drop sets and how to design an effective circuit routine to utilize all the muscle parts of the body. The students will also learn how to incorporate explosive movements in between sets to keep their heart rates up and work on how to perform at a high level when tired.

# Physical Science R 9 Yr 1 credit

**SCIENCE DEPARTMENT**

This course is designed to acquaint students with their surroundings. Physical science is divided into the areas of chemistry (the study of structure and properties of matter) and physics (the study of matter and motion). Both semesters include regular laboratory experiences and problem solving using the scientific method.

**Biology R 9-10 Yr 1 credit**

This is a yearlong study of life from the simple cells to complex organisms, animals. Students will start this course by learning about basic chemistry. They will then apply that information to the structure and function of cells, which is the basis of all life. Students will also study cell reproduction, genetics, evolution, botany (the study of plants), zoology (the study of animals), and ecology (the study of the environment).

# Chemistry R 10-12 Yr 1 credit

***PR-Biology***

Chemistry involves studying the composition, properties, and reactions of substances. This course involves the following topics will be covered: nomenclature, atomic structure, reactions, periodic chart, stoichiometric relations, gases, thermochemistry, solutions, acids/bases, kinetics, and organic compounds. The students will be expected to use the basics of mathematics to predict the amounts of chemicals used or produced in the study of matter.

**Conceptual Chemistry R 10-12 Yr 1 credit**

Conceptual Chemistry is an introductory chemistry course. Students in Conceptual Chemistry will gain an understanding of chemistry as it pertains to the world around them. The following topics will be covered: Recognizing and understanding the vocabulary of chemistry, solving problems in a mathematical and logical context, recognizing that chemistry is involved in many facets of daily life, developing a picture of atomic structure, nomenclature, shapes of molecules and ions, ionic and covalent bonding and compounds, water, gases, minerals/petroleum, nuclear interactions.

# Advanced Chemistry E 11-12 Sem ½ credit

***PR-Chemistry***

This course is taught at a college level. This course will add to the introductory concepts taught in the pre-requisite chemistry course and apply those concepts to problems found in more practical applications. Topics taught will be selected from the flowing partial list: a review of beginning concepts, rate and kinetic problems, intermolecular and macromolecular forces and how they apply to the properties of compounds, rebox potentials of non-standard solutions, cell structure of ionic substances, quantum numbers, and molecular orbits.

**Physics E 11-12 Yr 1 credit**

***PR-Geometry***

This course is designed to produce a genuine understanding of the physical laws fundamental to all sciences relying heavily on the usage of mathematics skills, especially trigonometry. An articulation agreement exists with Southeast Technical Institute, which provides an opportunity for post-high school credit

**Anatomy/Physiology E 11-12 Yr 1 credit**

***PR-Biology***

This is a college preparatory course for students interested in the medical field (physical therapy, doctor, dentist, veterinarian, nurse, etc.). In this course students will study Human Anatomy (the study of structures) and Human Physiology (the study of structure functions) together. Students will be expected to learn and apply proper medical terminology, names and locations of many anatomical structures as well as their functions to the human body. The course is cumulative and will follow this series of topics;

Atoms🡪molecules🡪organelles🡪cells🡪tissues🡪organs🡪organ systems🡪organism

**Principles of Biomedical Science E 10-12 Yr 1 credit**

***PR-Biology***

The rigorous and relevant four-course PLTW Biomedical Science sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Students engage in activities like investigating the death of a fictional person, learning content in the context of real-world cases. They examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease, all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future.

**SOCIAL STUDIES DEPARTMENT**

**World Geography R 9 Sem ½ credit**

World Geography will start with a base of Science in Geography. It will then introduce students to regions around the world through the five themes of Geography. It will incorporate both the physical and human characteristics of that place. Students will also work on study skills and social skills throughout the year.

**World History R 10 Sem ½ credit**

Students will explore many events, concepts and individuals that have helped shape the world in which we live today. Class begins with the Renaissance and moves into the 20th Century.

**American History R 11 Yr 1 credit**

The course begins with post-Civil War Reconstruction and concludes with the current events of the 21st century. Emphasis is placed on political, economic, military, and social events that have shaped American life and culture.

**Archaeology & The Ancient World E 11-12 Yr .5 credit**

Archaeology and the Ancient World will provide a survey of the evolution of society from the ancient Middle East through the Greek and Roman civilizations as evidenced through historical, literary, and archaeological data. Studies will focus on but not be limited to Egyptian, Greek, and Roman culture; and topics will include art and architecture, entertainment, athletic competition, militaristic expansion, and daily life in each of these societies. Students will come to better understand the rise and fall of these empires, their lasting legacies and how they are recorded in both the historical and archaeological record.

**Government R 12 Yr 1 credit**

This course will focus on the background, development and modern operation of the American system of government.

**AP Government R 12 Yr 1 credit**

This course will focus on the background, development and modern operation of the American system of government. This course prepares the student for the AP United States Government and Politics test.

**Personal Finance E 10-12 Sem ½ Credit**

Personal finance is the study of how consumers earn, spend, and save money. Students will understand how to budget expenses based on a fixed income and how to make important decisions that will affect their financial future. Also, students will gain an understanding of income taxes, insurance, and investments. This course will also cover how consumers affect the United States economy and the economies of other nations with a heavy focus on the 2008 financial crisis and resulting economic recession.

**Psychology E 11-12 Sem ½ credit**

This course focuses on individual behavior and why an individual thinks, feels, and reacts to certain stimuli. Major emphases will be placed on research methods, stages in childhood and adolescence, how the brain works, altered states of consciousness, psychological testing, and psychological disorders.

**Sociology E 11-12 Sem ½ credit**

This course illustrates how the groups, or social structures, that one belongs to have a profound influence on the way you think, feel, and act. Sociology looks at groups rather than individuals. Major themes include deviance and social control, inequalities of gender and age, family and marriage, and social issues surrounding modern sport.

**CAREER AND TECHNICAL EDUCATION**

**AGRICULTURE**

**Introduction to FFA/Agriculture E 9 Sem ½ credit**

This course allows students to study a variety of agricultural topics throughout the seven Agriculture, Food and Natural Resources pathways. It serves as an introduction to much of the coursework included within the Agriculture, Food and Natural Resources Cluster. Application of clinical and leadership skills are provided by participating in FFA activities, conferences, and skills competitions such as career development events (CDEs) and agricultural proficiency awards. Each student will complete a Supervised Agricultural Experience (SAE) Program/Internship. Topics Covered: FFA, leadership-FFA Creed, conduct of meetings, SAE, natural resources, animal science, agribusiness, intro to ag mechanics, agriculture systems technology.

**Wildlife and Fisheries E 9-12 Sem ½ credit**

Do you love the great outdoors? Then you will not want to miss out on this hands on class that features topics such as outdoor cooking, archery, camping, hunting & fishing. Students will have the opportunity to learn and participate in activities such as Dutch Oven cooking, camping, hunting, fishing, trapping & archery. They will also have the opportunity to compete in the state NASP archery tournament in the spring. Topics Covered: Fish and wildlife management, fish species, wildlife species, habitat, hunting, fishing, regulations, processing game and fish for consumption, safety, animal behaviors, archery.

**Ag Metal Fabrication Technology E 10-12 Yr 1 credit**

This hands-on class is designed to teach & introduce students to the high demand career area of WELDING. Students will learn the basics of Gas welding & Cutting, Stick Welding, and Wire-feed operation. Students will also have the opportunity to design and create several welding projects. Topics Covered: Careers in metal fabrication, weldling preparation and safety procedures, properties of materials, project design and construction procedures, welding fundamentals.

**Ag Building Construction E 10-12 Sem ½ credit**

In this practical hands on course, students will learn how to design and construct buildings using state of the art CAD software. Activities include designing & building structures, electrical wiring, and concrete work. Topics Covered: Safety, plan creation, cost estimation, ag structure assembly, electricity, land measurements, surveying.

**Fundamental Ag Mechanics E 10-12 Sem 1 credit**

In this class students will have the opportunity to totally restore a vintage tractor and in doing so will learn valuable skills in the areas of planning organization, electrical wiring, engine operation, hydraulics and basic auto body procedures. Topics Covered: Safety, maintenance of mechanical equipment and agricultural technology, servicing and testing mechanical systems, internal combustion engines, hydraulics, project planning, metal fabrication, electricity.

**Food Science E 9-12 Sem ½ credit**

The state of South Dakota is diverse in the agriculture products it produces and the value added food products available to the consumer. Food Science is a course designed to provide students with an overview of food science and its importance to producers and consumers. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Mathematics, science, English and human relations skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises, field trips and internships. Opportunities for application of clinical and leadership skills are provided by participation in FFA through activities, conferences and skills competitions such as Food Science, Meats Evaluation and Dairy Foods. Each student will be expected to complete a Supervised Agricultural Experience program. Topics covered: Changes and trends in the food industry, food industry organizations and regulatory agencies, safe and sanitary handling procedures, food nutrition, food constituents, food additives, labeling, market testing.

**Fundamental Animal Science E 9-12 Sem ½ credit**

This class is designed to give students a basic knowledge of the livestock industry. Activities include fieldtrips, meat processing identification & evaluation, dairy products identification and evaluation. A special section will also be dedicated towards horses and the equine industry. Topics covered: Anatomy and physiology, breeds, safety, nutrition, health, reproduction, genetics, performance , consumer concerns.

**Agronomy-Plant Science E 9-12 Sem ½ credit**

This class will be made up of a variety of hands on activities and labs to gain a better understanding of the following topics: plant anatomy and physiology; plant classification and ID; pest classification and ID; and pesticides, pest management, application equipment, calibration, laws/regulations.   This class will open the door to a variety of career areas that range from turf grass management to agronomy.

# Ag Power Technology E 10-12 Sem ½ credit

Technically trained people are needed in many aspects of Ag Power Technology. Mechanics shops, implement dealers, and outdoor power sports are example of careers where technical skills in Ag Power Technology are needed. Demand for jobs in the area of power technology such as diesel mechanic, electrician, & tractor mechanic are expected to remain steady to slightly increasing.  Ag Power Technology is designed to give students a background in the career cluster area of Power, Structural & Technical Systems and the many career opportunities available in the Ag Power field.  It addresses the technical and industrial issues related to Power, Structural & Technical Systems within our State.  Classroom & laboratory content may be enhanced by utilizing appropriate equipment and reinforced throughout the course. Work-based learning strategies appropriate for this course are school-based enterprises & field trips. Opportunities for application of clinical and leadership skills are provided by participation in the FFA organization through activities conferences, & skills competition such as the Ag Mechanics CDE or related proficiency awards. Each student will be expected to complete a Supervised Agricultural Experience project/Internship. Topics Covered: Basic engine principles, Power trains, Hydraulics, Fuels, Electrical Systems, Detailed maintenance, Troubleshooting & repair of agricultural equipment systems & components, Operation, maintenance, and repair of small gasoline, diesel engines, & electric motors, Principles of operation of gasoline and diesel engines, Tune-up and maintenance procedures, Disassembly, overhaul, & reassembly, and Operation of two-cycle & four-cycle engines.

**INDUSTRIAL TECHNOLOGY**

**Introduction to Manufacturing (Industrial Technology) E 9-12 Sem ½ credit**

This course is an entry-level course for students interested in enrolling in any of the Industrial Technology classes. Students will be exposed to the various careers in industry and learn to design and build wood/metal/plastic projects. In addition, hand tool and power tool use and equipment safety will be covered.

**Introduction to Architecture and Construction (Basic Woods) E 9-12 Sem ½ credit**

This hands-on project based course introduces basic woodworking knowledge, skills and safety. Hand tools, portable power tools, and stationary machines will be used to complete a variety of assigned projects.

**Intermediate Woods E 10-12 Sem ½ credit**

***PR—Basic Woods***

This project based course is designed to provide further instruction and experience in woodworking. Emphasis is placed on the safe and efficient use of power machines and equipment to complete assigned projects.

**Adv. Woods E 10-12 Sem BLOCK 1 credit**

***PR—Intermediate Woods***

The course provides the opportunity for students to apply the knowledge and skills learned in prior Ind. Tech courses. All students will be using advanced woodworking equipment and techniques in the construction of a **student-designed** project. **This is a two period, one credit course.**

**Advanced Shop E 11-12 Sem ½ credit**

***PR—Advanced Woods & Instructor Approval***

Through general discussions, presentations and activities, the students will gain knowledge and skill in shop management, equipment maintenance, time-management, and production practices.

Students have the option of building projects of their own design.

**Aviation E 10-12 Sem ½ credit**

The aviation course provides students with an understanding of the science of flight and includes the history, regulations, and possible career paths within the aviation industry. Students will have the opportunity to develop piloting skills using flight simulators and radio controlled model airplanes. Hands on activities and projects, along with relevant field trips, will give students experience in flight planning, principles of navigation, aircraft design, flight control, airport operations, and FAA Regulations.

**The following classes are offered on alternating years.**

**Cabinetry E 10-12 Sem ½ credit**

***PR—Intermediate Woods***

The course is designed to provide students with knowledge and skills necessary to design, build, install, repair, and maintain various types of cabinets. Students are required to complete a project of their own design.

**Building Trades E 10-12 Sem ½ credit**

***PR—Introduction to Industrial Technology***

This course is designed to provide students with instruction in the design, construction and systems found in a single family dwelling. Various projects will provide students with experience in building, repair, remodeling, and care and maintenance of a house or apartment.

**Electricity & Plumbing E 10-12 Sem ½ credit**

***PR—Introduction to Industrial Technology***

The student will be introduced to the principles of AC electricity, house wiring, and plumbing through hands-on projects and activities.

**Arts, A/V Technology & Communications**

**Commercial Graphic Design E 9-12 Sem ½ Credit**

This course introduces students to two types of graphic design, video editing and image editing. Students will use camcorders and digital cameras to capture video and images to illustrate comprehension of methods covered during classroom tutorials. Software used for the class includes Cyberlink PowerDirector and Photoshop.

**Photographic Arts E 10-12 Sem ½ Credit**

**(PR-Commercial Graphic Design)**

This course is a continuum of Graphic Design I. The same software is utilized, but will require more advanced problems and projects. The curriculum requires a deeper understanding of visual literacy and marketing techniques to obtain a finished product people savor.

**Computer Graphics E 9-12 Yr 1Credit**

This course introduces students to fundamental concepts, principles, and practices of 3D digital modeling. Topics covered in this course include: production of geometric and organic surfaces, polygon construction and surfaces. The primary 3D modeling and rendering software used in this course will be AutoDesk Studio Max 3D.

**Visual Basic Programming E 10-12 Sem ½ Credit**

This course is designed for students with a desire to learn both the graphic interface and execution of applications in a Windows environment. Students will also learn how a computer analyzes programming code. Topics covered are the processing cycle, designing an application, coding an application, debugging an application, and analyzing needs for design based on user wants and needs.

**Finance**

**Accounting 1 E 10-12 Sem ½ Credit**

Accounting covers the financial aspect of business. It is the process of receiving and expending cash as well as moving cash to specific areas of a business. This course covers the basic principles of bookkeeping for a service business and merchandising business. Basic principles include the accounting equation, journalizing & posting, financial statements, and the accounting cycle.

**Accounting II E 10-12 Sem ½ Credit**

**PR – *Accounting I***

Accounting II is a continuum of material from Accounting I. Topics covered in Accounting II includes accounting for uncollectible accounts, accounting for plant assets/depreciation, notes payable/receivable, and corporate accounting.

**Personal Finance E 10-12 Sem ½ Credit**

Personal finance is the study of how consumers earn, spend, and save money. Students will understand how to budget expenses based on a fixed income and how to make important decisions that will affect their financial future. Also, students will gain an understanding of income taxes, insurance, and investments. This course will also cover how consumers affect the United States economy and the economies of other nations with a heavy focus on the 2008 financial crisis and resulting economic recession.

**Entrepreneurship Experience E 12 Sem ½ Credit**

Entrepreneurship is an independent, self-guided course for students who are interested in organizing a start-up business.  Each student has a business professional as a mentor who assists them with business questions as well as an academic advisor who helps with the overall direction of their coursework.   Students complete the necessary requirements for the course almost entirely independently. At the end of the semester, the student will present their business proposal to a committee of administrators, teachers, and business members in a formal presentation setting.

**PROJECT LEAD THE WAY**

Project Lead The Way is designed to help students explore technology-related careers and to prepare them for two and four-year college, technology-based degree programs. Each class is taught in a laboratory setting using state-of-the-art technology, equipment, and software. Instruction is generally one-third theory and two-thirds application, with involvement of mentors from industry and colleges. Class activities focus on problem solving, requiring students to work in teams to generate solutions. Students may have the option to earn college credit, when possible, through college articulation agreements, offering a seamless link between high school and college.

Typically students who enjoy math and science will benefit from exploring at least part of the program. The program is aimed at both the student who is working toward a career in engineering and the student whose career choice is technical in nature. Students who do not enroll in the traditional mathematic sequence should not enroll in the Project Lead The Way.

Students may apply for transcripted Augustana College credit if they take IED, POE, and CEA. The following requirements must be met: Students must achieve a grade of 80% or higher in each course, must score a 6 or higher on the end-of-course exam, payment of $200 ($50 per credit hour).

**Introduction to Engineering Design E 9-10 Yr 1 credit**

This is the Project Lead the Way introductory course, which develops problem-solving skills while developing 3 dimensional models of objects. Students will use modern, state of the art computer hardware and software to complete their projects (Computer Aided Design CAD). This course will emphasize the design development process of a product and how a model of a product is produced, analyzed and evaluated. Various design applications will be explored with discussion of possible career opportunities. This is a yearlong course where students must complete both semesters to be eligible for potential college credit.

**Principles of Engineering E 10-11 Yr 1 credit**

***Must be in Geometry or higher math***

This Project Lead the Way course is designed to help students understand the field of engineering and technology and its career possibilities. Students will develop engineering problem solving skills that are involved in post-secondary engineering programs and engineering careers. They will explore various engineering and technical systems and manufacturing processes. They will also learn how engineers and technicians address concerns about the social and political consequences of technological change. The main purpose of this course is to experience what engineering and manufacturing is all about. Through theory and hands-on problem solving, students will answer the question, “Is a career in engineering or engineering technology for me?” This is a yearlong course where students must complete both semesters to be eligible for one credit of lab science and potential college credit.

**Civil Engineering and Architecture**  **E 10-12 Yr 1 credit**

***PR-Biology and Geometry***

The major focus of the Civil Engineering and Architecture (CEA) course is a long-term project that involves the development of a local property site. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of this property. The course provides freedom to the teacher and students to develop the property as a simulation or to students to model the real-world experiences that civil engineers and architects experience when developing property.

The CEA course is intended to serve as a specialization course within the Engineering Academy sequence. The course is structured to enable all students to have a variety of experiences that will provide an overview of both fields. Students work in teams, exploring hands-on projects and activities to learn the characteristics of civil engineering and architecture.

In addition, students use Rivet, which is a state of the art 3-D design software package from AutoDesk, to help them design solutions to solve their major course project. Students learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community of civil engineering and architecture.

**Principles of** **Biomedical Sciences E 11-12 Yr 1 credit**

***PR-Biology***

This rigorous and relevant four-course PLTW Biomedical Science sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Students engage in activities like investigating the death of a fictional person, learning content in the context of real-world cases. They examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease, all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future. This is a yearlong course where students must complete both semesters to be eligible for one credit of lab science.

**STUDENT MENTOR PROGRAM**

**Student Mentor E 12 Sem no credit**

Through this program the senior student will be able to: experience success by helping students and instructors with academics, serve as positive role models for others, develop writing skills through the journaling process, develop organizational and speaking skills, and develop communication and interpersonal skills. Students may mentor at the high school, middle school, or elementary after being accepted through an application process. An instructor may have no more than two student mentors in any given semester.There will be no grade or credit given for this class.