GRADUATION REQUIREMENTS

Number of credits required for graduation: **26 credits**. Credit is earned as follows: 1/2 credit per one-semester course.

English	4 credits (including 1/2 credit speech).
Social Studies	2 credits (including 1 credit U.S. History and ½ credit of Civics)
Constitution Requirement	Must pass tests on both the U.S. and IL Constitutions
Mathematics	3 credits including one with geometry content
Science	2 credits
Elective	1 credit of Music, Art, Foreign Language or Vocational Education
Consumer Education	1/2 credit
Health	1/2 credit
Physical Education	Daily enrollment is required. Students in grades 9 and 10 may substitute their required Health class for one semester of Physical Education. Juniors and Seniors may elect to substitute another class in place of P.E. in any one of the following circumstances: 1. The student is participating in interscholastic athletics. P.E. will be waived only for the semester(s) during which the student is participating in the sport. 2. The student is participating in the fall marching band program. PE will be waived only for the semester during which the student is participating in the fall marching band program. 3. The student is substituting a class specifically required for college admission. 4. The student is substituting a class required for high school graduation.

Fees: Some courses may require fees as needed for materials. These fees change from year to year and may vary according to materials selected by students. Some courses which may require fees include Art, Driver Education, lab sciences, vocational courses and CareerTEC courses.

Correspondence Credit: Students may earn 1.0 full credit through correspondence course work, which can be applied toward graduation. However, the correspondence course must have prior administration approval. Additional correspondence credit may be allowed with administrative approval.

Credits prior to high school: High school courses taken while in junior high will count towards graduation credit. In addition, the grades earned will apply to the high school GPA.

Credits through transfer: The acceptance and value of transfer credit will depend upon administrative approval based upon prevailing conditions, circumstances and the nature of the courses transferred.

Required course load: All students in grades 9-11 must be scheduled for a minimum of 3.5 units of credit each semester. Seniors are required to enroll in at least 2.5 units of credit each semester, more if needed to reach the 26 total credits required for graduation. No student will be allowed to schedule fewer credits than they need to graduate. "Open" periods must be taken either at the beginning or the end of the day and are subject to schedule availability. No students may leave on an "open" period and then return for the remainder of their classes.

DUAL CREDIT

Students, with administrative approval, may be dually enrolled at Dakota High School and an institution of higher learning. Students may receive high school credit and college credit simultaneously for the same classes with prior approval. Students will be responsible for tuition and related costs. When the budget allows, the district MAY reimburse up to 50% of tuition (not fees) for all dual-credit classes where a student earns a "C" or better.

No required graduation credits may be earned by correspondence and/or college course work, unless approved by the principal. An exception may be for a course attempted and failed at the high school, or a course that is impossible to work into a college prep schedule.

CLASS STANDING

Students are assigned to class standings at the beginning of the school year based on the following earned credits:

0 - 4 3/4 credits	**Freshman**
5 - 11 3/4 credits	**Sophomore**
12 - 18 3/4 credits	**Junior**
19 or more credits	**Senior**

Fourth year students with 18 - 18 3/4 credits may be considered Seniors with additional enrollment in a correspondence course.

IBHE AND NCAA GUIDELINES

Dakota High School students who are considering college enrollment following graduation should be aware of recent guidelines established by the Illinois Board of Higher Education and by the National collegiate Athletic Association.

The **Illinois Board of Higher Education** has instituted minimum high school coursework requirements for admission to transfer programs at Illinois public community colleges and to Illinois public universities. Following is a listing of required coursework:

4 years of English (emphasizing written and oral communications and literature),

3 years of social studies (emphasizing history and government),

3 years of mathematics (introductory through advanced algebra, geometry, trigonometry, or fundamentals of computer programming),

3 years of the sciences (laboratory sciences), and

2 years of electives in foreign language, music, art, or vocational education.

*** Some colleges have provided students with a greater amount of flexibility in meeting these guidelines. In these instances, 3 of the 15 units of coursework required may be distributed by deducting no more than one unit from the areas of math, social studies, science, or the electives and completing those 3 units in any of the areas of course work listed above. Students should be sure to check admission requirements carefully for the college of their choice.

The **National Collegiate Athletic Association (NCAAA)** instituted specific requirements concerning eligibility for participation in intercollegiate athletics and acceptance of athletic scholarships. These guidelines apply only to NCAA Division I and II schools. A qualifier must have obtained a minimum grade point average and SAT or ACT score as listed in a published index. Students must complete a minimum of 16 Core courses to be eligible.

4 years in English
3 years in mathematics (Algebra 1 or higher)
2 years in natural or physical science (including at least one laboratory)
1 year of additional English, math, or science
2 years in social science
4 years of additional courses from any area above and/or foreign language

(Note: Students should consult with school officials concerning which DHS courses fulfill these requirements. The athletic handbook details other NCAA eligibility required procedures.)

AGRICULTURE DEPARTMENT

COURSE OFFERINGS

Course Title: **Introduction to Agriculture, Foods and Natural Resources**
Prerequisite: Fresh/Soph/Junior (Seniors only if space allows)
Length: One year

This course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics, will be presented. Students will learn about FFA History, Structure, parliamentary procedure, leadership skills and public speaking. Improving computer and workplace skills will be a focus. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams and take responsibility for their work, actions and learning. For example, students will work in groups to determine the efficiency and environmental impacts of fuel sources in a particular learning experience.

Course Title: **Basic Agricultural Science**
Prerequisite: Soph/Jr standing; Intro to Agriculture required for students seeking Agricultural Science pathway
Length: One year

This orientation course builds on basic skills and knowledge gained in the Introduction to the Agricultural Industry course. Major units of instruction include agricultural research, soil science, advanced plant science, biotechnology, advanced animal science. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Course Title: **Intro to Agricultural Business**
Prerequisite: Soph/Jr/Sr standing; Intro to Agriculture required
Length: One year; *most likey independent study*

This course on topics and concepts related to the field of agricultural business. The course introduces business concepts such as record keeping, banking and finance, the role of government/ the USDA in agricultural business, consumerism trends, basics of credit, investment, and management. They usually provide a brief overview of the American Agricultural economic system, cooperatives and corporate organizations. This course may also expose students to a wide variety of agricultural business fields such as sales, marketing, accounting, loan officer and other related careers. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Course Title: **Advanced Biological Science Applications in Agriculture**
Prerequisite: Jr/Sr standing, Intro to Agriculture; Biology, Basic Agriculture Science, or Plants & Soils required
Length: One year

This course is designed to reinforce and extend students; understanding of biology by associating advanced scientific principles and concepts with relevant applications in agricultural animal and plant systems. Students will examine major phases of animal and plant agriculture and specific biological science concepts that govern management decisions in the animal and plant industries. Topics of study are in the areas of growth and development of animals – embryology, ethology, nutrition, immunity systems, processing animal products preservation, fermentation, and pasteurization. The course will be valuable preparation for post-secondary education and will increase the relevance of science through the applied setting of agricultural animal systems by enhancing literacy in science and the scientific process. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

Course Title: **Horticulture Science/Greenhouse Production**
Prerequisite: Jr/Sr standing, Intro to Agriculture , Biology or Plant Science or BSAA required
Length: One Semester (1st semester, paired with Landscaping Mgt)

This course provides advanced agriculture students with a technical understanding and working knowledge of the greenhouse industry. Topics include safety, plant physiology, plant identification, growing media, plant nutrition, integrated pest management, propagation, growing greenhouse crops, and greenhouse business concepts. Students will gain knowledge and skills related to the care and management of gardens and greenhouses. Agribusiness units will be introduced in merchandising, advertising, sales, and operating a greenhouse business. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

Course Title: **Landscaping Management**
Prerequisite: Jr/Sr standing, Intro to Agriculture , Biology or Plant Science or BSAA required
Length: One Semester (2nd semester, paired with Hort Sci/Greehouse)

This advanced course focuses on the landscape and nursery of the horticulture industry. Units of student instruction include: identifying landscape plants, designing landscape plans, hardscape construction techniques, and installing landscape plants. Also included are nursery production, and maintenance of existing landscapes. Agribusiness units will cover calculating prices for work, managing a horticulture business, advertising, and sales. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Course Title: **Veterinary Science**
Prerequisite: Jr/Sr standing, Intro to Agriculture or Biology or BSAA required
Length: One Semester (1st semester, paired with Aquculture)

This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Topics to be discussed include veterinary terminology, anatomy, and physiology, pathology, genetics, handling and restraint, first-aid and physical examinations along with common surgical skills. Career exploration will focus on veterinarians, veterinary lab technicians, office lab assistants, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

Course Title: **Aquaculture Science and Technology**
Prerequisite: Jr/Sr Standing, Intro to Agriculture or Biology or BSAA required
Length: One Semester (2nd semester, paired with Vet Science)

This course is designed to develop student knowledge and skills in the area of aquacultural science and technology. Instructional units include basic studies of aquacultural species; reproduction processes, genetics, nutrition, and health in aqua crops; ecological balances; and environmental requirements of aquatic plants and animals. Water quality, chemical and temperature analyses will be conducted for a variety of aqua crops. Individual and group experimentation and student research project(s) are required for satisfactory completion of this course. Careers to be examined include fish hatchery technicians, production managers, fish nutritionists, and researchers. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

Course Title: **SAE Program/Independent Study**
Prerequisite: Introduction to the Agriculture AND not currently enrolled in an agriculture course; FFA membership
Length: One Year

This course will operate as an independent study class; it is offered to those students who want to continue their FFA and agricultural involvement, but are unable to currently enroll in an agriculture course. Students must have a minimum of one approved project and have acceptable plans for conducting it. Supervised study, project record bookwork, training agreements and instructor visits are essential for a successful SAEP.

Course Title: **Basic Agricultural Mechanics**
Prerequisite: Soph./Jr./Sr. Standing, Introduction to Agriculture
Length: One year

In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include basic shop safety, hand and power tool knowledge, fasteners, basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, basic plumbing, concrete, welding, construction, and operating agricultural equipment safely. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

BUSINESS DEPARTMENT

COURSE OFFERINGS:

Course Title: **Business and Technology Concepts**
Prerequisite: None
Length: Full Year

This orientation-level course will provide an overview of all aspects of business marketing and management, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership, including entrepreneurship, as well as the basic functional areas of business (finance, management, marketing, administration and production). Students will be introduced to a wide range of careers in fields such as accounting, financial services, information technology, marketing, and management. Emphasis will be placed on using the computer while studying applications in these careers along with communication skills (thinking, listening, composing, revising, editing, and speaking), math and problem solving. Business ethics as well as other workplace skills will be taught and integrated within this course.

Course Title: **Accounting I**
Prerequisite: None
Length: Full Year ***(Not offered during the 2024-2025 school year)***

Accounting I is a course assists students pursuing a career in business, marketing, and management. This course includes planned learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying and maintaining numerical data involved in financial and product control records including the paying and receiving of money. Instruction includes information on keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision making. Accounting computer applications should be integrated throughout the course where applicable. In addition to stressing basic fundamentals and terminology of accounting, instruction should provide initial understanding of the preparation of budgets and financial reports, operation of related business machines and equipment, and career opportunities in the accounting field.

ENGLISH DEPARTMENT

English I	English II	English III	English IV

COURSE OFFERINGS:

Note: All English courses include varying degrees of emphasis on literature, grammar, spelling, and vocabulary acquisition. *All English courses are considered writing intensive.*

Course Title: **English I** (Introduction to Literature)
Prerequisite: Freshman standing
Length: One year

Introduction to Literature will focus on literature as a basis for teaching writing, grammar, vocabulary, and spelling. Short stories, poems, and novels of classic authors, as well as the techniques that go into writing these works, will be studied.

Course Title: **English II** (Applications of Literature and Writing)
Prerequisite: Sophomore standing
Length: One year

World Literature is the chronological study of significant European and non-western fiction, drama, and poetry in translation. A global approach will show how this literature fits into our world as a whole. Through regular writing assignments, grammar, spelling, and vocabulary are emphasized.

Course Title: **English III** (American Literature)
Prerequisite: Junior standing
Length: One year

American Literature is a chronological study of significant American literature. Students will read a selection of American fiction, drama, and poetry. Regular writing assignments, including a term research paper, continue to emphasize clarity, precision, and revisions.

Course Title: **English IV** (Senior Literature)
Prerequisite: Senior standing
Length: One year

This course will further develop the reading, writing, and communication skills of students using a variety of fiction and non-fiction texts. Students in this course will respond to literature in a variety of formats. Additionally, they will be required to exhibit proficiency in a variety of writing formats.

Course Title: **Speech Communications**
Prerequisite: Senior Standing
Length: One semester

This course is an introduction to the communication process. Verbal, nonverbal, and written forms of communication will be explored; however, the emphasis will be on actual communication experiences. Information gathering, presenting a point of view, and improving the quality of communication are some of the applied techniques that the student will experience. The final exam will be the culmination of the students' Capstone Project, a portfolio and exit interview.

Course Title: **Film Studies**
Prerequisite: Juniors and seniors; juniors must be concurrently enrolled in a literature class
Length: One semester ***(not offered in 2024-2025 school year)***

Foreign films. *Citizen Kane.* Charlie Chaplin. This class will provide students with the skills needed to analyze film as a visual art and as a literary medium. Students will view films that balance excellence in cinematography, theme, plot, and acting. Students will understand the relationship of a film to the cultural conditions in which it was released. In addition, students will be required to write analyses of these films. Popular movies will NOT be the focus of this class.

Course Title: **Creative Writing**
Prerequisite: Freshmen, sophomores and juniors must be concurrently enrolled in a Literature class
Length: One semester ***(not offered in 2024-2025 school year)***

This class will provide students who intend to continue their education after high school with practice in more advanced forms of writing. Students will be allowed to reflect upon their own experiences and explore writing in a variety of styles. Attention will also be paid to handling essay exam techniques and taking effective notes.

Title **Literacy Basics**
Prerequisite: Freshman standing; Teacher recommendation after RtI assessment
Length: One Year

Literacy Basics is designed for students whose literacy skills are significantly below grade level and who need to work diligently to improve their skills in order to improve their success in other high school courses. Independent guided reading and whole group instruction in a variety of fiction and nonfiction materials will be a significant component of this course. Students will write 2 essays (narrative and argumentative) and give one presentation (informational).

Course Title: **Humanities**
Prerequisite: Freshman, sophomores, and juniors must be concurrently enrolled in a Literature course
Length: One semester ***(not offered during the 2024-2025 school year)***

In this course, students in the 9^{th} through 12^{th} grades will read a survey of poetry from various time periods and connect that poetry to the art and music of the same eras. Students will engage in discussion, complete projects and presentations, and write brief essays.

FAMILY AND CONSUMER SCIENCE

COURSE OFFERINGS:

Course Title: **Family and Consumer Science**
Prerequisite: None
Length: One year, offered opposite year of Child Development

The purpose of this course is to give a general introduction to the field of home economics including areas of food and nutrition, clothing, entrepreneurship and interior design.

Course Title: **Child Development**
Prerequisite: Soph/Jr/Sr standing
Length: One year, offered opposite year of Family and Consumer Science
(Not offered during the 2024-2025 school year)

This course is designed for the student interested both in developing child-care job-related competencies and in gaining practical experience as a parent. Classroom study is concerned with information about child-care occupations and the developing child including such areas as physical and motor development, cognitive and language development, social and emotional development, and nutrition and the healthy child. Primary learning experiences will include actual work in preschool and kindergarten classrooms.

Course Title: **Foods and Nutrition**
Prerequisite: None
Length: One year
Fee: $10/year

This course will include basic classroom and laboratory experiences needed to develop knowledge and understanding of basic food principles and applied nutrition. Food science will be emphasized. Students will learn about careers in foods, nutrition and with emphasis upon hospitality management.

Course Title: **Consumer Education**
Prerequisite: Sr. standing
Length: One semester

This class teaches students "life" skills. Areas covered include: obtaining and maintaining a checking account, credit, investing, insurance, transportation, payroll and income taxes, and housing

FINE ARTS DEPARTMENT

COURSE OFFERINGS:

Course Title: **Art I**
Prerequisite: None
Length: One year
Fee: $10 and specific art supplies to be purchased for the class

This class introduces students to the visual arts through exploring and discussing conceptual art in a cross curricular approach. Each lesson is tied with art history and a different subject area to demonstrate how art relates across culture in every subject area. Specific skills and techniques are taught while discussing the elements and principles of design. Sketchbook assignments for extra creative practice are assigned biweekly.

Course Title: **Art II**
Prerequisite: "C" or better in Art I or teacher recommendation
Length: One year
Fee: $10 and specific art supplies to be purchased for the art class

This class explores a variety of mediums, both two and three dimensional. Art history is emphasized as students learn about how artists use each medium with the elements and principles of design in their own work. The class is designed to focus on conceptual thinking and expressing through their own artistic voice. Students will learn about various cultures in a cross curricular approach while understanding art as a language. Students will build on previously learned skills to make more sophisticated pieces of art while also learning new skills. Sketchbook assignments for extra creative practice are assigned biweekly.

Course Title: **Art III**
Prerequisite: "C" or better in Art II or teacher recommendation
Length: One year
Fee: $10 and specific art supplies to be purchased for the art class

This class helps students become more independent as they explore more of their own ideas and express them as visual commentaries on issues in society. Topics are given with choice of direction on projects. Students also explore their identities through their artwork making projects that gear toward self-expression. New, more complex ideas and skills are introduced while building on previously learned ideas. Art history is discussed and explored as students discover how art across time is used to communicate. Both two and three dimensional art is created. Sketchbook assignments for extra creative practice are assigned biweekly.

Course Title: **Art IV**
Prerequisites: "B" or better in Art III or teacher recommendation
Length: One year
Fee: $10 and specific art supplies to be purchased for the art class

This class is an independent study where students are beginning to build a portfolio. Students will choose topics and cultures to study and make art that reflects a bigger idea. The body of work will be cohesive and be used as a means of self-expression while demonstrating understanding of the elements and principles of design. Techniques will become more professionally developed as they learn more difficult skills. Artist statements will be written for art pieces and research for projects will be complete with preliminary sketches. Sketchbook assignments for extra creative practice are assigned biweekly.

Course Title: **Instrumental Music (Band)**

Prerequisite: Teacher recommendation
Length: One year (may be repeated for credit)
Fee: A rental fee will be charged for students requesting school instrument use. In addition, a transportation fee and uniform cleaning fee will be assessed each semester.

Band will undertake to develop and refine basic music fundamentals, ensemble musicianship, marching fundamentals, music theory, technique, intonation, and band spirit. Band members will participate in marching band for football games and parades, pep band, and a number of concerts as well as performances at community functions during the school year. Band students also have the opportunity to participate in Jazz Band, solo and ensemble contest, the conference festival, ILMEA District Festival, and IHSA Organizational Contest.

Course Title: **Vocal Music (High School Choir)**

Prerequisite: Teacher recommendation
Length: One year (may be repeated for credit)
Fee: A transportation fee will be assessed each semester.

Students will have the opportunity to participate in a mixed group of voices. Choir will develop basic music fundamentals, enhance musicianship and improve vocal technique. Choir members will present several concerts throughout the year, occasionally sing the National Anthem at sporting events and have the opportunity to participate in solo and ensemble contests, the conference music festival, ILMEA District Festival, and IHSA Organizational Contest.

FOREIGN LANGUAGE DEPARTMENT

COURSE OFFERINGS:

Course Title: **Spanish I**
Prerequisite: "C" or better in previous English class recommended
Length: One year

Spanish I is a general study of both the Spanish language and the Spanish culture. Topics include vocabulary common expressions in the present tense, sentence construction, and pronunciation. Primary emphasis is placed on an understanding of the language as it is spoken and written. Students must have a "D" or better in the first semester to be eligible to continue second semester.

Course Title: **Spanish II HONORS**
Prerequisite: "B" or better in Spanish I or teacher recommendation
Length: One year

This course is a detailed study of Spanish culture and grammar, with a special emphasis on vocabulary, tenses, and the imperfect vs. the preterit tenses. In Spanish II, the present tense will be reviewed, and the 5 additional tenses will be taught: present progressive, preterit, imperfect, present perfect, imperatives. An increased emphasis is placed on the actual speaking and understanding the spoken language. Vocabulary taught in Spanish II will be Spanish to Spanish. All Spanish II students will take the National Spanish Exam help in April.

Course Title: **Spanish III HONORS**
Prerequisite: "B" or better in Spanish II Honors or teacher recommendation
Length: One year

Spanish III emphasizes speaking, reading, and writing Spanish. The main goal is to provide opportunities for the student to use the language - more often and more comfortably - in daily conversation and intermediate reading and writing. All tenses taught in Spanish I and II will be used and the Subjunctive mood will be taught.
The National Spanish Exam for Level 3 or 4 will be administered in April for all Spanish III students.

Course Title: **Spanish IV HONORS**
Prerequisite: "B" or better in Spanish III or teacher recommendation
Length: One year

This course emphasizes the skills presented and practiced in the first three years with the addition of the Imperfect Subjunctive tense. Speaking reading, writing, and vocabulary acquisition receive equal attention in classroom activities. Some advanced grammar is presented to help prepare those students planning to take Spanish placement tests in college. The National Spanish Exam for Level 4 or 5 will be administered in April for all Spanish IV students.

INDUSTRIAL ARTS DEPARTMENT

COURSE OFFERINGS:

Course Title: **Drafting I, II**
Prerequisite: None
Length: One year

This course introduces the basic fundamentals of drafting. Topics include tools, terminology, layout procedures, job qualifications, employment opportunities, salaries, and an introduction to the uses of CAD. Second semester covers areas such as orthographic projections, isometric drawings, oblique drawings, sectional views, and use of other drawing aids such as templates and CAD.

Course Title: **Drafting III, IV**
Prerequisite: "C" or better in Drafting II and teacher recommendation
Length: One year

Basic concepts of mechanical drafting (including geometric construction, one, two, and three view drawings, and blueprint reading), along with more emphasis into CAD technology. Second semester consists of architectural drawing including building construction and planning, and completion of a set of house plans.

Course Title: **CAD I**
Prerequisite: "C" or higher in Drafting IV and teacher recommendation
Length: One year

This class takes an advanced look at the various types of drawings that are used in industry today. The CAD curriculum will provide the student with experience in up-to-date applications used in industry. Complete working drawings will also be assigned. One project will be to draw a complete set of house plans incorporating passive solar into the plan. This class is offered to limited enrollment on an individualized bias.

Course Title: **CAD II**
Prerequisite: "C" or higher in Drafting/CAD I and teacher recommendation
Length: One year

Students are assigned advanced projects that involve gears, threads, exploded views, etc., along with advanced applications in CAD involving 2D and 3D construction as well as 3D printing. Students wishing to concentrate on architecture will design an energy efficient house that incorporates solar design, or they may concentrate on mechanical CAD with emphasis in 3D printing, its applications and techniques.

Course Title: **Basic Carpentry**
Prerequisite: Fresh/Soph/Jr/Sr standing
Length: One year

The course introduces the basic fundamentals of woodworking, which include tools, terminology, job qualifications, opportunities and salaries. They are given safe instruction on the proper use of hand and power tools. Numerous projects with various complexities are assigned throughout the class, in which the students become familiar with furniture and cabinet construction, wood preparation, identification, finishing, jigs and fixtures, as well as assembly techniques.

Course Title: **Advanced Carpentry**
Prerequisite: Soph/Jr/Sr standing; B or better in previous Carpentry class
No discipline issues in previous Carpentry classes
Length: One Year

In this course, students are given a review on safe and proper use of hand, and power tools. This course will provide students with more advanced tooling skills and a deeper understanding of the woodworking process. The projects in this course are designed to give students the opportunity to continue to grow their skills and appreciation of woodworking, as well as learn how to make use of these skills after high school.

MATHEMATICS DEPARTMENT

MATHEMATICS SEQUENCE:

Start of sequence is determined by teacher recommendation:

Freshman	Sophomore	Junior	Senior
Algebra I	Geometry	Algebra II	Transitional Math IV-STEM OR Math IV
Algebra IA	Geometry A	Algebra IIA	College Alg/Trig
Geometry IIA	Math IIIA	College Alg/Trig	AP Calculus/Stats
Algebra Part I	Algebra Part II	Intermediate Geom	Intermediate Algebra

COURSE OFFERING:

Course Title: **Algebra Part I**
Prerequisite: 8th Grade Pre-Algebra & Teacher recommendation
Length: One year

This course is designed to take the concepts of Algebra I at a slower pace than in a regular Math I class. Basic concepts of the Real Numbers system will be reviewed and reinforced. Students will explore math concepts using data patterns and integers to help learn the building blocks of algebra. Emphasis will be placed on using manipulative and technology to teach algebraic concepts. Students will learn several problem-solving techniques to apply to different types of application. The concepts of linear equations, inequalities, and functions will be explored.

Course Title: **Algebra Part II**
Prerequisite: Algebra Part I & Teacher recommendation
Length: One year

This course is the second part of a two-year sequence of Algebra I. The concepts of this course will be discussed at a slower pace than in a regular Math I course. Students will start the year with a review of basic algebra concepts, linear equations, inequalities, and functions. An emphasis will be placed on using manipulative and technology to teach algebraic concepts. Problem-solving techniques will be reinforced. The concepts of systems of equations, statistics, and quadratics will be discussed.

Course Title: **Algebra I and Algebra IA**
Prerequisite: Teacher recommendation
Length: One year

A certain degree of proficiency in basic algebra skills is presumed. Theory, structure, and application of algebra skills and techniques will be emphasized. Some objectives include understanding the structure of the real number system, applying algebraic concepts and skills – including linear equations in one and two variables, inequalities, systems of equations and inequalities, functions in a coordinate plane, quadratics, perceiving the role of deductive reasoning in algebra, and appreciating the need for precision of language. Algebra IA will consider the topics in greater depth with more formality at an accelerated pace.

Course Title: **Intermediate Geometry**
Prerequisite: Soph/Jr/Sr status; one year of Algebra I or Algebra Part II
Length: One Year

This course is designed to take the concepts of Geometry at a slower pace than in a regular Geometry class. Relationships between sets of points in space, properties of congruent and similar figures, parallel and perpendicular lines, ration, area, and volume are some of the topics presented.

Course Title: **Geometry and Geometry A**
Prerequisite: None
Length: One year

This course includes plane and solid geometry. Relationships between sets of points in space, properties of congruent and similar figures, parallel and perpendicular lines, ratio, area and volume of plane and solid figures, construction and coordinate geometry are some of the topics presented. Algebraic concepts will be used in the study of geometric problems. Geometry A will have a strong emphasis on proof and logic.

Course Title: **Intermediate Algebra**
Prerequisite: Jr/Sr status, completion of Alg Part I and II, Int Geom., teacher rec.
Length: One year

This course is intended for those students who want a third year of mathematics but had trouble with the concepts in Algebra I and/or Geometry. The topics include equations and inequalities (in 1, 2, and 3 variables and systems), linear function and relations, polynomials, rational algebraic expressions, radicals, quadratics, irrational and complex numbers, and an introduction to trigonometry. Students will use algebra in a variety of applied problem situations.

Course Title: **Math III**
Prerequisite: None
Length: One year

This course is intended for the student bound for college, tech school, or apprenticeship. Topics include properties of Real Numbers, equations, and inequalities (in 1, 2 and 3 variables and systems), linear functions and relationships, polynomials, rational algebraic expressions, radicals, irrational numbers, complex numbers, trigonometry concepts, and series and sequences. Students will use algebra in a variety of applied problem situations.

Course Title: **Math IIIA**
Prerequisite: None
Length: One year

This course is intended for college-bound students who anticipate a college major in a highly quantitative field (e.g. science, architecture, engineering, math, computer, etc.). In addition to the topics listed in Math III, this course will include matrices, determinants, probability, and statistics. Material will be covered at a faster pace and more in depth than in Math III.

Course Title: **Math IV**
Prerequisite: "C" or better in Math III/IIIA; Teacher recommendation
Length: One year

This course is intended for the student bound for college, tech school, or apprenticeship. Topics include the conics (equations, graphs, translation to centers not at the origin), polynomial functions (including synthetic divisions, Factor Theorem, Rational Roots Theorem); composition, inverse, and graphs of functions; series and sequences; matrices and determinants; and logarithms and exponents.

Course Title: **Math IV (Transitional Math-STEM)**
Prerequisite: Juniors/Seniors that have completed Math III/IIIA
Length: One year

This course is intended for the student bound for college. Topics include linear functions, polynomials, rational functions, radical functions, exponential functions, and a capstone project. Grading for this class will cover the entire school year, NOT by semesters. *Seniors who have a grade of a "C" or higher at the end of the course may enroll in College Algebra at HCC or any other two-year Illinois institute without having to take a placement test.*

Course Title: **College Algebra (Dual Credit 4 hours Math 166)**
Prerequisite: Accuplacer or standardized test placement score met, teacher rec and completion of Math III/IIIA
Length: One semester, fall

This course reviews the fundamental operations of algebra followed by a study of equations and applications involving quadratics, complex numbers, relations, functions and transformations, matrices, determinants, exponential and logarithmic functions, and series and sequences. Applications involving linear programming will also be explored. *Dual credit is available through Highland Community College at student's expense.*

Course Title: **Trigonometry (Dual Credit 3 hours Math 167)**
Prerequisite: Accuplacer or standardized test placement score met, teacher rec and completion of Math III/IIIA
Length: One semester, spring

This course includes the study of trigonometric functions, right triangle applications, functions of multiple angles, trigonometric equations and identities, radian measure, inverse functions, the oblique triangle, graphs, and complex trigonometric functions. *Dual credit is available through Highland Community College at student's expense.*

Course Title: **Statistics (Dual Credit 4 hours Math 134)**
Prerequisite: Accuplacer or standardized test placement score met, teacher rec And completion of Math III/IIIA
Length: One Year
Requirement: TI-84 calculator or equivalent

This course provides the background necessary for the student to understand the wide range of statistical concepts encountered and of use in daily life. Topics covered include: data collection processes, organizing and displaying data, descriptive statistics, probability theory and distributions, confidence intervals, hypothesis testing, linear regression, correlation and more. *Dual credit is available through Highland Community College at student's expense.*

Course Title: **AP Calculus (Dual Credit 5 hours Math 250)**
Prerequisite: Successful completion of College Algebra and Trigonometry
Length: One year

The basic concepts of standard calculus (limits and continuity, derivative, integration) will be explored using graphically numerical and algebraic approaches. Students will have the opportunity to apply calculus in a variety of practical situations. Students will be required to do a summer review packet. *Dual credit is also available through Highland Community College at the student's expense.*

PHYSICAL EDUCATION DEPARTMENT

Course Title: **High School Physical Education**
Prerequisite: None
Length: One year

This course will emphasize lifetime activities, health-related fitness, and wellness. Muscular and cardiovascular endurance will be developed through a variety of activities: aerobic conditioning, weightlifting, circuit training, physical fitness, team sports, individual sports, and game activities. Students will gain knowledge of fitness and team concepts, and realize the effects on themselves socially, emotionally, mentally, and physically. The course is aligned with Illinois state goals in Physical Education.

Course Title: **High School Advanced Physical Education**
Prerequisite: Participation in Dakota High School athletics or instructor approval
Length: One year

The purpose of this course is athletic preparation. Advanced Physical Education will improve the student's physical fitness through a rigorous program of strength training and fitness activities. The class activities will include free weights, circuit training, dynamic flexibility, speed training, plyometrics, aerobic and anaerobic conditioning, and agilities. The course will enhance the student's athletic movements and meet the Illinois state goals in physical education.

Course Title: **Health**
Prerequisite: None
Length: One semester

Topics covered in this class include accident prevention and safety education, control and prevention of communicable diseases, mental health, and drug use and abuses.

Course Title: **Driver Education**
Prerequisite: Must be of at least freshman standing. State law dictates that students must pass a minimum of eight classes the previous two semesters combined in order to be eligible for enrollment.
Length: 6 weeks; offered one term first semester, one term second semester
Fee: **$200**

This is a course designed to teach students the rules of the road while incorporating the essential driving techniques. Students must demonstrate a positive attitude toward safe and responsible driving. Class meets before school from 7-8:00 a.m. for 30 school days. Behind the wheel training will take place during school hours in the weeks prior to the student's 16th birthday.

SCIENCE DEPARTMENT

COURSE OFFERINGS:

(All science courses are laboratory courses that require impact and splash resistant goggles)

Course Title: **Biology**
Prerequisite: Freshman standing or teacher recommendation
Length: One year
Fee: $10.00 lab fee

This course is designed to provide a basic understanding of living systems. Topics include scientific method, cell theory, genetics, heredity, evolution, classification, and dissection of 3 different organisms and the biology of our living world.

Course Title: **Applications in Biology/Chemistry**
Prerequisite: Sophomore/Junior/Senior standing
Length: One year ***(not offered in the 2024-2025 school year)***

This is a science course designed to teach chemistry in a biological context using scenarios from daily life that could affect individuals and society. This course is designed for the student who wants more science but isn't ready to attempt a traditional chemistry class.

Course Title: **Anatomy and Physiology**
Prerequisite: "C" or better in Biology and consent of teacher; Chemistry strongly recommended
Length: One year
Fee: $10.00 lab fee

This course will help the student gain a better understanding of himself and his environment. Topics to be covered in depth include microbiology, biochemistry, human anatomy and physiology, genetics, and human diseases. Other topics to be discussed are animal development, biosystematics, probability, and cell biology.

Course Title: **Zoology**
Prerequisite: "C" or better in Biology and consent of teacher; Chemistry strongly preferred
Length: One year ***(not offered during the 2024-2025 school year)***
Fee: $10.00 lab fee

The purpose of this course is to examine further the area of animal life sciences. Students will study anatomy and physiology of various animal phylum, theories of evolution, animal behavior, and dissection methods applied to 8 different organisms.

Course Title: **Chemistry**
Prerequisite: "C" or better in an Algebra class, Soph/Jr/Sr standing
Length: One year
Fee: $10.00 lab fee

This course provides a study of the structure and composition of compounds and the changes in composition of those compounds. The student is introduced to laboratory equipment and through its use is made aware of scientific techniques.

Course Title: **Forensic Science**
Prerequisite: Sophomore/Junior/Senior Status; completed Biology
Length: One semester
Fee: $5.00 lab fee

This course will provide an overview of biology as it relates to forensics. The course will provide a foundation in scientific inquiry and the techniques of finding biological evidence in everyday life and in forensic situations. Students will be asked to develop reports that use biological evidence to support or deny claims. Students will learn to explore DNA concepts, fingerprint development, fiber analysis, and an array of laboratory techniques.

Course Title: **Environmental Science**
Prerequisite: Sophomore/Junior/Senior Status; completed Biology
Length: 1 semester
Fee: $5 lab fee

This course provides students with the opportunity to apply knowledge of biological and physical sciences to how they affect different environments. Students will be asked to examine the cause-and-effect relationships that lead to different environmental risks. Students will also explore both natural and man-made environmental issues, while simultaneously learning and critically thinking about ways in which to combat these issues. Students will study the environment in a variety of ways and test out theoretical solutions to environmental issues the world faces today.

Course Title: **Physics**
Prerequisite: Algebra II or Algebra IIA (may be taken concurrently); Soph/Jr/Sr standing
Length: One year ***(not offered during the 2023-2024 school year)***
Fee: $10.00 lab fee

Physics is the study of matter and its interactions in nature through energy, force, and momentum. It emphasizes the science of problem solving.

Course Title: **Principles of Technology**
Prerequisite: Soph/Jr/Sr standing, completion of an Algebra course and a science course
Length: One year ***(not offered during the 2024-2025 school year)***

This is a course in applied science designed to prepare vocational and college-bound students more effectively for technical careers. This course will cover mechanical, fluid, electrical and thermal principles on which modern equipment operates. It is a hands on approach to learning physics using basic algebra.

Course Title: **Advance Placement (AP) Biology**
Prerequisite: Completion of Biology and Chemistry
Length: One year ***(not offered during the 2024-2025 school year)***
Fees: Textbook purchase is recommended but not required
$98 AP exam fee paid by district

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes—energy and communication, genetics, information transfer, ecology, and interactions. At the end of this course, students will take the AP exam to earn college credit.

SOCIAL STUDIES DEPARTMENT

COURSE OFFERINGS

Course Title: **Civics**
Prerequisite: Fr/Soph standing
Length: One semester

This course is a study of federal, state, and local government and institutions, as well as their relationship to each other and to the citizen. Also studied will be a citizen's legal rights and responsibilities as they apply to other citizens, institutions, and business. We will spend a considerable amount of time studying the law, the courts, and how they apply to young people.

Course Title: **Modern American History**
Prerequisite: Fr/Soph standing; Jr/Sr also may enroll if space allows
Length: One semester

This course examines major events in American social, political and economic history from the last half of the 20th century including the Potsdam Conference, Nuremberg Trials, Japanese War crimes, the Korean War, the History of the 1950's, the Cold War, the Kennedy era, McCarthyism, the Civil Rights Movement, the Great Society, Vietnam, and the 60's. Eisenhower, Kennedy, Johnson, Nixon, Ford, Carter, Reagan, and Bush-era politics will be covered as well as the U.S. recent involvement in the Middle East.

Course Title: **World History**
Prerequisite: Soph/Jr/Sr standing
Length: One year

This course examines the period of history from ancient Egypt up to the present time. Periods discussed include early civilizations, the Middle Ages, Renaissance, and Reformation, French Revolution, Russian Revolution, World Wars, the Chinese, the Hindus of India, the Cold War, and the reforms in the formerly Communist nations of Eastern Europe.

Course Title: **U.S. History I (1750 - 1865)**
Prerequisite: Jr/Sr standing
Length: One semester

This is a survey course in U.S. History from the American Revolution through the Civil War. Other topics include the U.S. Constitution, early presidents, and expansionism.

Course Title: **U.S. History II (1865 – 1945)**
Prerequisite: Jr/Sr standing
Length: One semester

This course surveys U.S. History from post Civil War America through World War II. Other topics include U.S. Native American policy, industrialism, the Depression, and World War I.

Course Title: **AP U.S. History**
Prerequisite: So/Jr/Sr standing
Length: One Year ***(Not offered in the 2024-2025 school year)***
Fees: Required textbook purchase; $98 AP Exam paid by school

The AP U.S. History course focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven

themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) that students explore throughout the course in order to make connections among historical developments in different times and places. At the conclusion of the course, students may elect to take the AP Exam to earn college credit.

Course Title: **Psychology**
Prerequisite: Jr/Sr standing
Length: One semester

This course is designed as a college prep course, surveying human behavior. Completion of this course will acquaint the student with topics including the brain and nervous system, memory, learning styles, child psychology, personality, and abnormal psychology.

Course Title: **Sociology**
Prerequisite: Jr/Sr standing
Length: One semester

Sociology gives the students an insight into the similarities and differences of cultures in the world with special emphasis on our own culture. Topics include how do societies organize themselves and socialize their young, how societies control the behavior of groups and individuals, and how societies change.

Course Title: **Contemporary Social Issues**
Prerequisite: Jr/Sr standing
Length: One semester

The focus of this class will be on the current events that are presently changing our social, political, and economic lives. The course will cover recent religious and militaristic events that shape our world today, as well as other current events that both positively and negatively affect the people who live on this planet. Working collectively, the teacher and students in this class will use daily news sources, such as those found in newspapers, television shows, radio, magazines, and the internet, to become better acquainted with the people and places which make up out world.

Course Title: **World Geography**
Prerequisite: Junior/Senior standing
Length: One semester, offered second semester opposite CSI

This course covers the major terms, concept and ideas of Geography. The primary focus will be on the Five Themes of Geography as they apply to the world in which we live.

HIGHLAND COMMUNITY COLLEGE
TRANSFERABLE DUAL CREDIT OFFERINGS

Course Title: **Rhetoric and Composition I (3 hours Eng 121)**
Prerequisite: Accuplacer criteria met for Reading and Writing
Length: One semester, fall

This course is designed to help students to write effectively. Instruction is offered in the basic elements of rhetoric; much practice is given in composing essays. *Dual credit is available at student's expense.*

Course Title: **Rhetoric and Composition II (3 hours Eng 122)**
Prerequisite: Successful completion of English I22
Length: One semester, spring

This class, a continuation of English 121, focuses on critical skills in thinking, reading, and writing. Skills are developed in writing to inform, persuade, and evaluate. Emphasis is placed on producing a documented, multi-source research essay. *Dual credit is available at student's expense.*

Course Title: **Introduction to Psychology (3 hours Psy 161)**
Prerequisite: Accuplacer criteria met for Reading and Writing
Length: One semester, fall

Studies and scientifically interprets human behavior. Considers such topics as child growth and development, personality, emotions, learning, intelligence, and perception. *Dual credit is available at student's expense.*

Course Title: **College Algebra (Dual Credit 4 hours Math 166)**
Prerequisite: Accuplacer or standardized test placement score met, teacher rec
Length: One semester, fall

This course reviews the fundamental operations of algebra followed by a study of equations and applications involving quadratics, complex numbers, relations, functions and transformations, matrices, determinants, exponential and logarithmic functions, and series and sequences. Applications involving linear programming will also be explored. Dual credit available through Highland Community College at student's expense.

Course Title: **Trigonometry (Dual Credit 3 hours Math 167)**
Prerequisite: Accuplacer or standardized test placement score met, teacher rec
Length: One semester, spring

This course includes the study of trigonometric functions, right triangle applications, functions of multiple angles, trigonometric equations and identities, radian measure, inverse functions, the oblique triangle, graphs, and complex trigonometric functions.
Dual credit available through Highland Community College at student's expense.

Course Title: **Statistics (Dual Credit 4 hours Math 134)**
Prerequisite: Accuplacer or standardized test placement score met, teacher rec
And completion of Math III/IIIA
Length: One Year
Requirement: TI-84 calculator or equivalent

This course provides the background necessary for the student to understand the wide range of statistical concepts encountered and of use in daily life. Topics covered include: data collection processes, organizing and displaying data, descriptive statistics, probability theory and distributions, confidence intervals, hypothesis testing, linear regression, correlation and more. Dual credit available through Highland Community College at student's expense.

Course Title: **AP Calculus (Dual Credit 5 hours Math 250)**
Prerequisite: Successful completion of College Algebra and Trigonometry
Length: One year

The basic concepts of standard calculus (limits and continuity, derivative, integration) will be explored using graphically numerical and algebraic approaches. Students will have the opportunity to apply calculus in a variety of practical situations. Students will be required to do a summer review packet. Students may opt to take the AP exam in the spring for a chance to earn college credit. Testing fees (approximately $93) will be the responsibility of the student. Dual credit is also available through Highland Community College at the student's expense.

**One additional Dual Credit class will be determined at a later date. This course will run second semester concurrent with English 122.