

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 1/2 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: <ol style="list-style-type: none">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 <u>fall</u> 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 likely 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/Greenhouse)

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 Aquaculture)

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 (*not offered during the 2023-2024 school 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

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
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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 2023-2024 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 2023-2024 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 2023-2024 school year)*

In this course, students in the 9th through 12th 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
(not offered during the 2023-2024 school year)

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

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 basis.

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: **Carpentry I, II**

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: **Carpentry III, IV**

Prerequisite: "C" or better in Carpentry II and teacher recommendation

Length: One year

Carpentry students are given a review on safe and proper use of hand tools, power tools and CNC tooling. Projects are assigned so that the student becomes familiar with the technical aspects of wood, its function, methods, materials and appearance. Woodworking projects such as furniture and cabinet making, laser engraving, and robotic woodworking will be implemented. Students will also develop an appreciation towards woodworking as well as learn the aspects of setting up their own business

Course Title: **Carpentry V, VI**

Prerequisite: "C" or better in Carpentry IV and teacher recommendation

Length: One year

Students are assigned advanced projects that concentrate on door, drawer, and cabinet construction along with emphasis on rail and style set-up procedures for raised panels. The student will be responsible for equipment set-up, repair, and organization within the constraints of the classroom projects. They will also be expected to diagnose and solve problem situations with tools and equipment that involve higher, more skilled operations and principles.

MATHEMATICS DEPARTMENT

MATHEMATICS SEQUENCE:

Start of sequence is determined by teacher recommendation:

Algebra I	Geometry	Algebra II	Transitional Math IV-STEM OR Math IV
Algebra IA	Geometry A	Algebra IIA	College Alg/Trig
Math 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 Math 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 place 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 Math 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 basic geometry 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, introduction to geometry, perceiving the role of deductive reasoning in algebra, and appreciating the need for precision of language. Math IA will consider the topics in greater depth with more formality.

Course Title: **Intermediate Geometry**

Prerequisite: Soph/Jr/Sr status; one year of Math I or Algebra Part II

Length: One Year

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

Course Title: **Math II and Math IIA**

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, and statistics are some of the topics presented. Algebraic concepts will be used in the study of geometric problems. Math IIA 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 Math I and/or Math II. The topics include equations and inequalities (in 1, 2, and 3 variables and systems), linear function and relations, polynomials, rational algebraic expressions, radicals, 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 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 available through Highland Community College at student's expense.*

Course Title: Statistics (Dual Credit 4 hours Math 177)

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 168)

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 (\$96) will be paid by the district. 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, weight lifting, 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 agility. The course will enhance the student's athletic movements, and meets 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 uses 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: **General Science**

Prerequisite: None

Length: One year

General Science is a survey course introducing students to the areas of earth science, ecology, meteorology, physics and chemistry.

Course Title: **Biology**

Prerequisite: Soph/Jr/Sr 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 2023-2024 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 2023-2024 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: **Physics**

Prerequisite: Algebra II or Algebra IIA (may be taken concurrently); Soph/Jr/Sr standing

Length: One year, offered opposite year of Principles of Technology

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 2023-2024 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 2023-2024 school year*)

Fees: Textbook purchase is recommended but not required
\$96 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 2023-2024 school year*)

Fees: Required textbook purchase; \$95 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 *(Not offered in the 2023-2024 school year)*

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 *(Not offered in the 2023-2024 school year)*

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 our 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 122

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 177)

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 168)

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.**



COURSE CATALOG 2023 - 2024

CAREERTEC programs explore content through real-world application and work-based learning experiences, including job shadows, guest speakers, internships, and dual credit, enabling pathways to certifications, degrees, and careers. Students must have credits indicating they are of junior or senior status when starting any program except NJROTC, which is for 9-12th graders.

Students are required to meet with the course instructor before acceptance into these specific programs:

- Health Occupations (HOYA)
- Computer Information Systems (CIS)
- Careers in Business (CIB)
- Cosmetology & Nail Tech

Students can apply for a CareerTEC class in January with our online application:

<https://docs.google.com/forms/d/e/1FAIpQLSf9erF1iBJklpBeZI-FeKNk-dq4d8IKsEC1qxYNVJDq9ayX7g/viewform>

then register through their counselor at their local schools.

Program acceptance is based on student interest, attendance record, and grade point average of 2.0 or higher; however, students who do not meet these criteria may be accepted with CareerTEC and home school approval.

Students must be registered by **April 1** to be a guaranteed student; however, applications will be accepted beyond April 1 if seats are available and with instructor approval, if applicable.

In conjunction with CAREERTEC, Highland Community College offers dual credit opportunities for most programs, as noted in course descriptions.

ATTENDANCE

Students are expected to be in attendance according to each course location's calendar. Locations for each program are listed below and in descriptions. Start dates can be found at www.careertec-il.org in July of the upcoming school year.

- Classes listed for FHS, St. John's, and Construction site follow the **CAREERTEC calendar**.
 - Careers in Auto Technology (CATS)
 - Careers in Business (CIB)
 - Computer Information Systems (CIS)
 - Construction Trades
 - Culinary Occupations
 - Graphic Design
 - Health Occupations (HOYA)
 - NJROTC
- Classes held at Highland Community College (HCC), taught by HCC staff, follow the **HCC calendar**.
 - Auto Mechanics HCC
 - Cosmetology
 - Nail Tech
 - Criminal Justice
 - Early Childhood Education (ECE)
 - Industrial Technologies

FEES

- Fees for participation in all CAREERTEC programs are listed within each course description & are subject to change.
- All CAREERTEC required fees are to be paid by student/parent at home schools during local school registration.
- All Highland required fees are to be paid by the student/parent at the Highland business office before the first day of class. A student must be registered as a HCC student before these fees can be paid.
- Applications for FEE WAIVERS are available at the local school.
 - They must be completed and submitted DURING REGISTRATION AT THE LOCAL SCHOOL.
- Aquin students can take any CAREERTEC class and need to register as a part-time student with their local public-school district in accordance with their tuition payment agreement.

BOOKS

(All prices are approximate and are subject to change)

- Information regarding books will be mailed to students during the summer
- MOST Highland classes require book purchase by the student
- Some dual credit classes at St. John's require book purchase by the student

CAREERS IN AUTO TECHNOLOGY & SERVICE I (CATS) (20104A001)

Level:	11 th and 12 th grade
Class location:	Freeport High School, Freeport
Length:	One-year, double period
Time:	7:30 - 9:00 a.m., Mon. - Fri.
H.S. Credit:	2 credits per year
Prerequisite:	9 th grade reading comprehension level, 8 th grade math skills level. Successfully passing Intro to Auto or instructor approval (placement test)
CAREERTEC Fees:	\$40 (includes lab fees, work book, and one issuance of eye protection, <u>to be paid by student/parent at High School</u> during registration)
Calendar:	This course follows the CAREERTEC calendar



This course is a must for students with a desire to learn more about Auto Technology at an intermediate level. Working in the auto industry today is a big challenge. By developing entry-level diagnostic abilities (problem-based learning), the student will learn how and why a part or system works or doesn't work. Learning things by trial and error is inadequate and very time consuming; classroom assignments and lab activities are taught daily with problem-based situations being presented and solved using math, common sense, mechanical aptitude, and written documentation by the students. Units covered are lighting systems, starting and charging, suspension and steering, tires and brakes systems, application of precision electrical and mechanical measuring devices, engine disassembly and inspection, vehicle inspection and maintenance, fuel system delivery service and advanced fuel, ignition, and control systems for small engines.

Each student will be required to do class work which will consist of a workbook and text assignments along with the corresponding shop exercise in the required time frame. Each unit must be passed with a minimum proficiency level of 78%. Personal responsibility, professionalism along with workplace skills are stressed and graded in this course. The program requires students to be able to pass safety tests (w/100%) and procedures studied in the class and shop. Correct use of tools and equipment are studied and developed. Students will have the opportunity to participate in job shadowing and field trips based upon attendance and completed assignments. Participation as a coordinated interactive work team is stressed as students will be required to do managerial, customer relation, and use information technology regularly as it is applied to the automotive service industry. This course provides knowledge and experience to continue into the second year of this program which requires independent study.

CAREERS IN AUTO TECHNOLOGY & SERVICE II (CATS II) (20104A002)

Level:	12 th grade
Class location:	Freeport High School, Freeport
Length:	One-year, double period
Time:	7:30 - 9:00 a.m., Mon. - Fri.
H.S. Credit:	2 credits per year
Prerequisite:	Completion of Careers in Auto Technology I with C or better and 95% attendance
CAREERTEC Fees:	\$40 (includes lab fees, work book, and one issuance of eye protection), <u>to be paid by student/parent at High School</u> during registration
Calendar:	This course follows the CAREERTEC calendar
Other:	Students are required to provide their own standard and metric ¼ drive socket sets and screw drivers, to be kept on site before being allowed to work in the lab.



This course is for students in 12th grade that have passed the first level the previous year. They will be required to perform specific repair and maintenance procedures on lab and live vehicles. These procedures will include writing invoices, performing the work, accessing needed repair information, and proving the repair fixed the problem. Assignments and lab activities are taught and applied on a regular basis within this course. In this level they will take the concepts learned the previous year and apply them regularly to develop proficiency for entering post-secondary education or the workforce. Students will have the opportunity to participate in job shadowing and field trips in this program based upon attendance and completed assignments. Workplace skills are taught in class and practiced at prospective places of employment and job shadowing sites. Units covered are: Safety (100% passing grade requirement), review of level 1 curriculum, reconstruction of vehicle systems as a working lab model and use of computers for documentation and recording. Systems not covered previously such as welding, axles, clutches are also part of this course. I.C.E., E.V. (internal combustion, electric and alternatively fueled) are included. Each unit must be passed with a minimum proficiency level of 78%.

CAREERS IN BUSINESS (CIB) (20152A001) year 1

Level:	11 th and 12 th grade
Class Location:	St. John Church, Freeport
Time:	1:00 - 2:30 p.m., Mon. - Fri.
Length:	One-year, double period
H.S. Credit:	2 credits per year
Post Sec Credit:	Highland Community College - Dual Credit **9 credits
Prerequisites:	Meeting with instructor, minimum GPA, good attendance, and business/computer-orientation class (if offered), are required for acceptance into this program
CAREERTEC Fees:	\$25, to be paid by student/parent at High School during registration
HCC Fees:	\$30 registration fee per school year, <u>to be paid by student/parent at HCC</u>
Calendar:	This course follows the CAREERTEC calendar



Careers in Business (CIB) is a program offering 9 dual credits (college credit) during year one and introduces a variety of business concepts and applications. Additionally, job shadowing opportunities, guest speakers and field trips reinforce the areas students have studied within the business career clusters.

Curriculum:

- Money Management:
 - Investing & Saving
 - Banking & Credit
- Communication Skills
 - Business Presentations & Writing
 - Resumes
- College Exploration & Career Planning
- Microsoft Word, Excel and PowerPoint
- Stock Market Game
- Job Shadowing
- Interviewing Skills

Dual Credit Business Courses:

- Business Communications BUSN141
- Math of Business BUSN125
- Microsoft Excel INFT 140
- Microsoft Word INFT131
- Microsoft PowerPoint INFT135

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

CAREERS IN BUSINESS II (CIB) (22153A001)

Level:	12 th grade
Class Location:	Internship sites
Time:	8 hours weekly; schedules determined by instructor, student and mentor
Length:	One-year, double period
H.S. Credit:	2 credits per year
Post Sec Credit:	Highland Community College - Dual Credit **1-4 credits
Prerequisites:	Completion of CIB year 1 with C or better and 95% attendance
HCC Fees:	\$15 registration fee per school year, <u>to be paid by student/parent at HCC</u>
Calendar:	This course follows the CAREERTEC calendar



CIB I as a junior may continue for a second year (pending successful completion of year one) and participate in an internship where they gain valuable experience outside of the classroom setting. *Transportation to and from the internship placement is the responsibility of the intern. Finding an internship is also the responsibility of the student.*

COMPUTER INFORMATION SYSTEMS I (CIS) (10102A001)

Level:	11 th and 12 th grades
Class Location:	St. John Church, Freeport
Time:	7:30 - 9:00 a.m. & 1:00 - 2:30 p.m., Mon. - Fri.
Length:	One-year, double period
H.S. Credit:	2 credits per year
Post Sec Credit:	Highland Community College - Dual Credit ** 6 credits
Prerequisite:	Business/Computer orientation class, if offered. Completed application and meeting with instructor required for acceptance into this program
CAREERTEC Fees:	\$244, <u>to be paid by student/parent at High School</u> during registration
HCC Fees:	\$30 registration fee per school year, <u>to be paid by student/parent at HCC</u>
Textbook Fees:	NA (provided through coursework software/materials)
Optional Fees:	Student is responsible for any certification retake testing fees
Calendar:	This course follows the CAREERTEC calendar



CIS I prepares the student to be able to identify every component in as well as disassemble and reassemble troubleshoot computers. Students will set up operational and security procedures. The student will learn how to configure and troubleshoot Windows and Linux operating systems. The student will install, upgrade, or repair microcomputers, peripheral devices, including but not limited to Raspberry Pi and Nvidia Jetson Nano devices. In addition, the student will be introduced to the Cisco Networking Academy, Packet Tracer Networking, and Cyber Security. Successful completion of this course will allow students the opportunity to test for A+ certification. Dual credits at HCC: INFT 182: Microcomputer Hardware, INFT 282: A+.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

COMPUTER INFORMATION SYSTEMS II (CIS) (10102A002)

Level:	12 th grade
Class Location:	St. John's Church, Freeport
Time:	7:30 - 9:00 a.m. & 1:00 - 2:30 p.m., Mon. - Fri.
Length:	One-year, double period
H.S. Credit:	2 credits per year
Post Sec Credit:	Highland Community College - Dual Credit** approximately 6-8 credits
Prerequisite:	Completion of CIS I with C or better and 95 % attendance, completed application and meeting with instructor required for acceptance into this program
CAREERTEC Fees:	\$454, <u>to be paid by student/parent at High School</u> during registration
HCC Fees:	\$30 registration fee per school year, <u>to be paid by student/parent at HCC</u>
Textbook Fees:	NA (provided through coursework software/materials)
Optional Fees:	Student is responsible for any certification retake testing fees
Calendar:	This course follows the CAREERTEC calendar



CIS II provides a combination of academics and workplace skills that move a student toward further experiences in the computer field and the optional opportunity to pass industry-recognized certification exams. Class activities and hands-on laboratories include Cisco Networking Academy and Packet Tracer. Coding, Cyber Security, Networking +, Security +, and Workplace Experience will provide students foundational skills needed to install, operate, manage, maintain, and troubleshoot networks. Introduction to design principles and implementation of systems languages. Topics include syntax, data types, control structures, and storage management. Integrated Development Environments and Object Orientated Programing will be introduced. Languages may change depending on what is currently in demand. Opportunity at local employers to apply learned skills. Dual credits at HCC: SPTP 295: Coding Essentials, INFT 284: Net +, and OCED 290: Workplace Experience. Successful completion of this course will allow students the opportunity to test for Net+ certification.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

CONSTRUCTION TRADES I (17002A001)

Level:

Class Location: Freeport High School shop, by tennis courts / Construction Site

Time: 7:30 - 9:00 a.m., Mon. - Fri.

Length: One-year, double period

H.S. Credit: 2 credits per year

Prerequisite: Knowledge of fractions and decimals

CareerTEC Fees: \$50 to be paid by student/parent at High School during registration

Calendar: This course follows the CAREERTEC calendar



Learn to build and/or remodel a house! Construction Trades Youth Apprenticeship Year I provide hands-on introductory construction skills to students interested in the building industry. Students learn all aspects of construction with in shop and on-site projects. Students receive OSHA safety training within the first 2 weeks of class. Construction careers explored include carpenter, electrician, plumber, heating, and air conditioning technician, dry-walling, construction technician as well as manager and architect. With the support of area industries, this course is an important first step toward success within the construction trades industry.

CONSTRUCTION TRADES II (17002A002)

Level: 12th grade

Class Location: Freeport High School shop, by tennis courts/ Construction Site

Time (option 2): 7:30 - 9:00 a.m., Mon. - Fri.

Length: One-year, double period

H.S. Credit: 2 credits per year

Prerequisite: Successful completion of CTYA I with a C or above and 95% attendance

CareerTEC Fees: \$50 to be paid by student/parent at High School during registration

Calendar: This course follows the CAREERTEC calendar



Students continue in the hands-on-program described in Year I to learn more advanced skills used in the construction trades industry and possibly become a foreman on the Construction Trades job site.

Opportunity to earn OSHA 10-hour Construction certification.

COSMETOLOGY I (COSMO I) (19101A001)



Level:	11 th and 12 th grade
Class Location:	Highland Community College, Freeport
Time:	7:30 – 9:00 a.m., Mon. - Fri.
Length:	One-year, double period
H.S. Credit:	2 credits per year
HCC Credit:	Highland Community College - Dual Credit** 6 credits
Prerequisite:	8 th grade reading level and meeting with instructor required for acceptance into this program
HCC Fees:	\$750-\$757 (\$80 uniform and shoes, \$30-\$37 uniform smock, \$250 basic student kit and \$120 course fee, \$240 tech & activity fees, \$30 registration fee per school year), <u>to be paid by student/parent at HCC</u>
Textbook Fees:	Approximately \$549.50 textbook bundle and study guide
Calendar:	This class follows the HCC calendar

Students will identify safety and decontamination procedures required for safety and sanitary customers services in the cosmetology industry. Students will identify hair anatomy and disorders as well as perform shampooing and conditioning the hair and scalp. Students will identify and demonstrate skills in basic hair design such as finger waving, pin curls and rollers. Students will perform basic lab services on mannequins and clientele.

Course content covers COSM 121.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

COSMETOLOGY II (COSMO II) (19101A002)



Level:	12 th grade
Class Location:	Highland Community College, Freeport
Time:	1:00 - 2:30 p.m., Mon. - Fri.
Length:	One-year, double period
H.S. Credit:	2 credits per year
Post Sec Credit:	Highland Community College - Dual Credit** 6 credits
Prerequisite:	Completion of Cosmetology I with a C or better and 95% attendance rate
HCC Fees:	\$390 (\$120 course fee, \$240 tech & activity fees, \$30 registration fee per school year), <u>to be paid by student/parent at HCC</u>
Textbook Fees:	Use book from year 1
Calendar:	This course follows the HCC calendar

Students will demonstrate skill in thermal pressing. Students will learn and demonstrate various braiding techniques. Students will understand the communication on client consultations. Students will learn and perform manicuring and pedicuring. Students will identify different hair cutting strategies and will perform various haircuts on men, women and children. Course content covers COSM 122.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

CRIMINAL JUSTICE (04165A001 & 15052A001)

Level:	11 th & 12 th grade
Class Location:	Highland Community College, Freeport
Time:	7:30 - 9:00 a.m., Mon. - Thurs.
Length:	One-year, double period
H.S. Credit:	2 credits per year
Post Sec Credit:	Highland Community College - Dual Credit** 12 credits
HCC Fees:	\$535 (\$480 tech & activity fees + \$25 Info Tech Fee, \$30 registration fee per school year), <u>to be paid by student/parent at HCC</u>
Textbook fees:	\$300 - \$400
Calendar:	This course follows the HCC calendar



The Criminal Justice program will provide foundational courses for a variety of career pathways, including law enforcement, crime scene investigators, corrections, lawyers, probation and parole officers, security, parks and wildlife, and social work. Course content will include overview and history of institutions, correctional systems, practices, and issues related to criminal justice. Course content will also focus on principles and functions of crime, acts, mental state, criminal liability, juvenile delinquency, information systems, and criminological theories throughout history to present day. Topics will also include current trends in U.S. crime rates; patterns of victimization; characteristics of property crimes, violent crimes, substance abuse; and corporate crimes. Students will also learn about computer systems, networking, enterprise level technology, business computer applications, programming concepts, computer security and digital ethics. Software projects will be completed throughout the semester to further assess students' knowledge and use of digital tools. Students will build upon this foundational knowledge and receive introductory concepts related to cybercrime and cybersecurity throughout the semester. Dual Credit at HCC: CJS 101, CJS 102, CJS 103 and INFT 180.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

CRIMINAL JUSTICE II (15057A001)

Level:	12 th grade
Class Location:	Highland Community College, Freeport
Time:	1-2:30 p.m. Mon. - Thurs. Some courses may be offered online.
Length:	One-year, double period
H.S. Credit:	2 Credits per year
Post Sec Credit:	Highland Community College – 7-10 Dual Credit** credits
Prerequisite:	Completion of Criminal Justice I with a C or better and 95% attendance rate
HCC Fees:	512 (\$ 440 tech & activity fees, \$2 course fee, \$30 registration fee per school year), <u>to be paid by student/parent at HCC</u>
Textbook fees:	\$300-\$400
Calendar:	This course follows the HCC calendar



The Criminal Justice II program offers an opportunity to study and examine criminology two days a week in the fall. Criminology is the subfield of sociology that focuses upon crime, law, and social control within the context of social organization and culture. Additionally, two days a week in the fall will focus on independent work toward Physical Fitness 1 and an 8-week online course of First Aid, required courses for degree programs. In the second semester, students will focus on the topic of juvenile justice. Students will develop an understanding of the history of the special social category of juvenile delinquency and the dispensing of juvenile justice in the United States. The evolution of theories and dominant social conceptions are then correlated with practical police, judiciary, and correctional practices. The spring term course will introduce students to criminal law as an elective course for Criminal Justice certificate, degree and/or transfer program. This course will analyze the principles and functionalities of substantive criminal law, including elements of a crime, acts, mental state, attendant circumstances, and criminal liability. This course will include evaluation and analysis of crimes against property, habitation, public order, and crimes against persons, and more. Special consideration is given to the criminal law within Illinois. This course may be taught in an online format. Dual Credit at HCC: CJS 201, 202, 203, HLTH 212 (First Aid), and PHYD 121 (Physical Fitness).

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

CULINARY ARTS I (16052A001)

Level:	11 th and 12 th grade
Class Location:	St. John Church, Freeport
Time:	7:30 - 9:00 a.m., 9:20 - 10:50 a.m., & 1:00 - 2:30 p.m., Mon. - Fri.
Length:	One-year, double period
H.S. Credit:	2 credits per year
Post Sec Credit:	Highland Community College - Dual Credit** 1 credit
CAREERTEC Fees:	\$75 (\$25 lab fees, \$20 textbook rental, \$30 chef jacket), to be <u>paid by student/parent at High School</u> during registration
Optional HCC Fees:	\$15 registration fee Spring semester, <u>to be paid by student/parent at HCC</u>
Calendar:	This course follows the CAREERTEC calendar



Culinary Arts I teaches practical culinary skills and knowledge including knife skills, cooking techniques, industry guidelines, international cuisine, and terminology needed for the development of food service competencies and workplace skills. The majority of the class is spent in the kitchen applying culinary skills through daily-cooking lab activities (you get to eat what you cook). Food sanitation and classroom application will prepare students for an industry-recognized sanitation exam. Additional content includes professionalism, kitchen essentials, basic and advanced food preparation, food service equipment, management essentials, and building a successful career in the industry. Students will be provided training opportunities on commercial equipment. Dual credits at HCC: Food Sanitation Certification, HMEC 192.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

CULINARY ARTS II (16055A001)

Level:	12 th grade
Class Location:	Internship sites
Time:	Varies dependent on internship agreement
Length:	One-year, double period
H.S. Credit:	2 credits per year
Post Sec Credit:	Highland Community College - Dual Credit** 1-3 credits
Prerequisite:	Successful completion of Culinary Arts I with a C or better, 95% attendance and instructor approval
Optional HCC Fees:	\$15 registration fee Spring semester, <u>to be paid by student/parent at HCC</u>
Calendar:	This course follows the CAREERTEC calendar



Culinary Arts II is an internship-based program designed to prepare students for an occupation in the food service industry. Students do not meet in a typical classroom setting. Students complete four internships, one each quarter, at a variety of food businesses. The course places special emphasis on developing real-world culinary skills, including design and organization of food service systems in a variety of settings, human relations, and personnel training and supervision. Additional topics include food cost accounting, taking inventory, advertising, monitoring consumer and industry trends, and individualized mastery of culinary techniques. *Students will be responsible for transportation to and from internship sites.* Dual credit at HCC possible: OCED 290 (Workplace Experience)

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

EARLY CHILDHOOD EDUCATION I (19153A001)

Level:	11 th and 12 th grade
Class Location:	Highland Community College, YMCA Early Learning Center, or home school district preschool
Time:	7:30 – 9:00 a.m. Mon. – Thurs.
Length:	One-year, double period
HS Credit:	2 credits
Post Sec. Credit:	Highland Community College – Dual Credit **6 credits
HCC Fees	\$270 (\$240 tech & activity fees, \$30 registration fee per school year), <u>to be paid by student/parent at HCC</u>
Textbook fees:	Approx. \$60
Calendar:	This course follows the HCC calendar



This program allows students to work directly with children from birth through second grade while earning college credit! Students can begin working toward Early Childhood Educator Gateways to Opportunities Credential Level 2 while spending time in early childhood settings with children. This credential makes students eligible for the Gateways to Opportunities Scholarships.

Dual credit year 1: ECE 121: Introduction to Early Childhood; ECE 123: Health Safety & Nutrition of the Young Child, 6 total credits.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

EARLY CHILDHOOD EDUCATION II (19261A001 & 19154A001)

Level:	12 th grade
Class Location:	Highland Community College, YMCA Early Learning Center, or home school district preschool
Time:	7:30 – 9:00 a.m. Mon. – Thurs.
Length:	One-year, double period
HS Credit:	2 credits per year
Post Sec. Credit:	Highland Community College – Dual Credit **8 credits
HCC Fees:	\$380 (\$320 tech & activity fees, \$30 registration fee per school year, \$30 college certificate graduation, <u>to be paid by student/parent at HCC</u>)
Textbook fees:	Use book from Year 1
Calendar:	This course follows the HCC calendar



Dual credit year 2: ECE 122: Child Growth and Development and ECE 203, Home School, & Community Relations in Early Childhood and Practicum. Students will also work toward Early Childhood Educator Gateways to Opportunities Credential Level 2 while spending time in early childhood settings with children. This credential makes students eligible for the Gateways to Opportunities Scholarships.

Hybrid Schedule: Monday and Wednesday class 7:30-9 a.m., Tuesday, and Thursday, YMCA Early Learning Center or child care center working with children, also 7:30 to 9:00 am. Some coursework will be online, while other coursework will be during class Mondays.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC

GRAPHIC DESIGN I (GD I) (11155A001)

Level:	11 and 12 th grade
Class Location:	Freeport High School, Freeport
Time:	7:30 - 9:00 a.m., Mon. - Fri.
Length:	One-year, double period
H.S. Credit:	2 credits per year
Prerequisite:	Knowledge of the fundamentals of design
CAREERTEC Fees:	\$30, <u>to be paid by student/parent at High School</u> during registration
Calendar:	This course follows the CAREERTEC calendar



This course is designed to provide students with the skills needed for a career in the fields of advertising, commercial art, graphic design, animation, and graphic illustrator. Students learn to apply artistic design and layout principles along with text, graphics, drawing, rendering, sound, video, and 2D/3D animation integration to develop various print, video, and digital products. Students use hardware and software programs to create, manipulate, color, paint, and layer scanned images, computer graphics, and original artwork. Students use hardware and software to capture, edit, create, and compress audio and video clips. Students use animation and 2D/3D hardware and software to create animated text, graphics, and images. Students apply artistic techniques to design and create advertisements, displays, publications, technical illustrations, marketing brochures, logos, trademarks, packaging, video graphics, animations, and computer-generated media.

Students will use Adobe Photoshop, Illustrator, Premiere Pro, After Effects, Toon Boom Animation, among other tools in the development of their projects.

GRAPHIC DESIGN II (GD II) (11155A002)

Level:	12 th grade
Class Location:	Freeport High School, Freeport
Time:	7:30 - 9:00 a.m., Mon. - Fri.
Length:	One-year, double period
H.S. Credit:	2 credits per year
Prerequisite:	Completion of Graphic Design I with C or better and interview with Instructor
CAREERTEC Fees:	\$30, <u>to be paid by student/parent at High School</u> during registration
Calendar:	This course follows the CAREERTEC calendar



Interactive Design and Animation course will explore the creative, technical, and conceptual aspects of designing and producing interactive media arts experiences, products, and services, including reactive (sensory-based devices) and interactive technologies, 3D game mechanics, 2D/3D animation, interface design, mobile device applications, social media-based and web multimedia, physical spaces, augmented reality, and/or virtual reality. Topics may include aesthetic meaning; artistic, design and technical methods and practices; story and audience engagement; analysis and media literacy; construction, development, processing, modeling, simulation, and programming of interactive experiences; their transmission, distribution, placement and marketing; and contextual, cultural, and historical aspects and considerations. The course will emphasize the development of digitally generated and/or computer-enhanced media in the creation of your interactive and/or animated projects.

Students will use Adobe Photoshop, Illustrator, Premiere Pro, After Effects, Toon Boom Animation, Unity, Blender, Autodesk products, among other tools in the development of their projects.

HCC AUTO MECHANICS I (20104A001)

Level:	11 th and 12 th grade
Class Location:	Highland Community College, Freeport
Time:	12:45 - 5:45 p.m., Mon. - Thurs.
Length:	One-year
H.S. Credit:	2 credits per year
Post Sec. Credit:	Highland Community College - Dual Credit** 25 credits
Tuition:	Approximate out of pocket tuition cost to student \$1,963
HCC Fees:	\$1,415 (\$385 course fee, \$1,000 tech & activity fees, \$30 registration fee per school year), <u>to be paid by student/parent at HCC</u> . Students may purchase tools through a rent to own program at HCC at a cost of approx. \$1,000 per semester. Students may also rent tools while in class <u>to be paid by student/parent at HCC</u>
Textbook fees:	\$190
Calendar:	This course follows the HCC calendar



If you're serious about becoming a certified auto mechanic, look into this course. Auto Mechanics I is a dual -credit program earning college credit hours as well as high school credits. Students are expected to have math and reading skills sufficient to understand the technical terminology presented in the textbooks. This program prepares students for employment with hands-on experience in the areas of vehicle service and inspections, brakes, manual transmissions, and drivetrains, basic electrical (electrical circuits, batteries, starters, alternators) suspension & alignments, and engine mechanical repair. **Students are responsible for any tuition and fees beyond \$906 per semester.** Students are also responsible for purchase of required textbooks (approx. \$190) and tools (contact HCC for options and cost). Students will earn Highland Community College credits toward an Associate of Applied Science degree. Dual credit at HCC: AUTM 111, 113, 115, 120, 122, 124, 138

This is an ASEEF accredited course. Various ASE Certifications may be earned after completing 2 years of automotive courses.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

HCC AUTO MECHANICS II (20104A002)

Level:	12 th grade
Class Location:	Highland Community College, Freeport
Time:	7:30 - 12:30 p.m., Mon. - Thurs.
Length:	One-year
H.S. Credit:	2 credits per year
Post Sec. Credit:	Highland Community College - Dual Credits** 27 credits
Prerequisite:	Successful completion of Auto Mech. I with C or better and 95% attendance
Tuition:	Approximate out of pocket tuition cost to student \$2265
HCC Fees:	\$1,550 (\$440 course fees, \$1080 tech & activity fees, \$30 registration fee per school year), <u>to be paid by student/parent at HCC</u>
Textbook Fees:	Students may purchase tools through a rent to own program at HCC at a cost of approx. \$1000 per school year <u>to be paid by student/parent at HCC</u> Same textbook as Yr. 1, continuation of payments on tool set purchased through HCC <u>to be paid by student/parent at HCC</u>
Calendar:	This course follows the HCC calendar



Dual Credit Auto Mechanics II is a continuation of courses leading to an Assoc. of Applied Science Degree. This program prepares students for employment in the areas of computerized engine controls, air conditioning, automatic transmissions, and body control systems. **Students are responsible for any tuition and fees beyond \$906 per semester.** Additional college credits are necessary to complete the AAS degree program. Dual credits at HCC: AUTM 231, 233, 235, 237, 238, 240, 242, 248. This is an ASEEF accredited course. Various ASE Certifications may be earned after completing 2 years of automotive courses.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

HEALTH OCCUPATIONS YOUTH APPRENTICESHIP I (HOYA I) (14001A001 & 14051A001)

Level:	11 th and 12 th grades
Class Location:	St. John Church, Freeport
Time:	7:30 - 9:00 a.m., 9:20 - 10:50, & 1:00 - 2:30 p.m., Mon. - Fri.
Length:	One-year, double period
H.S. Credit:	2 credits per year
Post Sec Credit:	Highland Community College – Dual Credit** 8 credits
Prerequisite:	(Eight credits for students successfully completing the C.N.A. theory and clinical training) Keyboarding skills, immunization documentation, and meeting with instructor required for acceptance into this program, satisfactory completion of Algebra I, and have at least an 8 th grade reading ability, which will be confirmed through Accuplacer exam score of at least 220. Students must have a social security number on the first day of class to be eligible for state CNA exam. NO exceptions per Illinois Public Health regulations.
CAREERTEC Fees:	\$194 (\$80 drug screen, \$20 workbook, \$25 Textbook rental, \$6 fee, \$22CPR, \$41 scrub uniform), <u>to be paid by student/parent at high school during registration.</u> In the event of a non-negative drug screen, the student will be assessed an additional fee of \$26 for the screen to be sent to an independent lab.
HCC Fees:	\$15 registration fee for spring semester <u>to be paid by student/parent at HCC</u>
Optional Fees:	\$75 CNA state testing fee <u>to be paid by student/parent during state testing registration after completing course.</u> Students may purchase their textbook for replacement cost
Calendar:	This course follows the CAREERTEC calendar

CareerClusters®
PATHWAYS TO COLLEGE & CAREER READINESS**Health Science**

Healthcare is the largest growing industry globally. Doctors, nurses, lab technicians, respiratory techs, occupational and physical therapists, surgical assistants and traveling health care personnel are needed nationwide. HOYA I provides a comprehensive exploration into health-care occupations and provides foundational skills and broad-based training in a variety of careers in the health-care field. Classroom academics will be combined with introductory on-site visits of numerous health careers. The course is designed to help prepare students for more in-depth post-secondary study toward a particular career in health care. **Students will need the 2 step TB test or lab test and proof of Hepatitis B vaccination. To participate in the CNA training, students will need a social security number on the first day of class and a state issued photo ID, further information will be provided.**

* TB test can be obtained at the county health department at their current rate. Appointments should be made.

Students are offered the opportunity to receive CNA (Certified Nursing Assistant) training 40 hours of clinical training will be done in the evenings or weekends, during the course of the year. Students that pass the theory and clinical portion with an 80% or better may sit for the State certification exam in June to be given at Highland Community College. Aligning with health-care standards, students will be subject to random and reasonable suspicion of alcohol and drug screenings; students will be removed from the program if they test positive.

Suggested preparatory courses include Algebra I, computer literacy, keyboarding skills, strong science background, competent writing skills, and a strong interest in health-related careers. Students may be responsible for their own transportation to and from Job Shadow sites and some field trips. Dual credit at HCC: NURS 091.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

HEALTH OCCUPATIONS YOUTH APPRENTICESHIP II (HOYA II) (14098A005 & 14154A001)

Level:	12 th grade
Class Location:	Internship site & St. John Church every Mon., Tues. Wed., 1:00 - 2:30 p.m.
Length:	One-year, double period
H.S. Credit:	2 credits per year
Post Sec Credit:	Highland Community College - Dual credit** - 5 total – 2 credits after passing Health Care Delivery final exam and 3 credits after passing Medical Terminology exam
Prerequisite:	Completion of HOYA I with C or better and 95% attendance, and attainment of work site placement
CAREERTEC Fees:	\$196 (\$46 textbook rental, \$70 workbook, \$80 drug test), <u>to be paid by student/parent at High School</u> during registration. In the event of a non-negative drug screen, the student will be assessed an additional fee of \$26 for the screen to be sent to an independent lab.
HCC Fees:	\$15 registration fee for Spring semester, <u>to be paid by student/parent at HCC</u>
Calendar:	This course follows the CAREERTEC calendar



HOYA II is a combination of on-site clinical work experiences and academics that are required to enter a particular health career or health-industry area. Student will interview and work on-site with a professional for an average of eight hours per week to total 144 hours per semester and a cumulative total of 288 during the entirety of course. Additional time is spent on academics that enable the student to pursue a post-secondary degree or certification in the health-care field. Students will study Medical Terminology as well as explore national and regional practices of health care. This will include not only careers in healthcare, but projections of health-care needs locally as well as globally, access to health-care advocacy for health programs, managing the delivery of health services, diverse populations served in healthcare and the challenges involved, and an overview of changing health-care behaviors. Students will work actively with community resources while studying national and global behaviors in comparison. Students will meet Monday through Wednesday in the classroom from 1-2:30 for academic instruction. **Students will need the one step TB test before class begins.** *TB test or lab test can be done at the Health Department for a fee. Appointments should be made. Aligning with health-care standards, students will be subject to random and reasonable suspicion of alcohol and drug screenings; students will be removed from the program if they test positive. Students study Medical Terminology and Health Care Delivery and upon successful completion of the exam will earn college credits through HCC: NURS 117 and HLTH 101. *Students must provide their transportation to and from the classroom and the work site.*

INDUSTRIAL TECHNOLOGIES (13207A001 & 13203A001)

Level:	11 th & 12 th grade
Class Location:	Highland Community College, Freeport
Time:	7:30 - 9:00 a.m., Mon. - Thurs.
Length:	One-year, double period
H.S. Credit:	2 credits per year
Post Sec. Credit:	Highland Community College Dual Credit** 12 credits
HCC Fees:	\$805 - \$895 (\$295 course fees & tools, \$480 tech & activity fees, \$30 registration fees per school year. Students must purchase tools at a cost of \$160 included in course fees), <u>to be paid by student/parent at HCC</u>
Textbook fees:	\$195-\$303 textbook bundle
Calendar:	This course follows the HCC calendar



This program develops the basic academic and technical skills students must acquire to pursue a career in welding, CAD, or manufacturing. These skills will be developed in the areas of Shielded Metal Arc Welding, Gas Metal Arc Welding, 2D CAD (Computer Aided Drafting), and 3D CAD and Parametric Modeling. Upon completion of these courses, the student will be able to use a fusion process to join (weld) two pieces of metal by applying intense heat to melt the edges of metal so they fuse permanently. Students will also determine the welding process best suited for the metals being fused. Additionally, students will learn to create basic 2-dimensional CAD drawings complete with multiple views and dimensions. An emphasis will be placed on drafting fundamentals. Finally, students will learn 3-dimensional CAD (Parametric Modeling) with an emphasis on dimensioning mechanics and assemblies.

****Students successfully completing this course will have the opportunity, with additional coursework at HCC, to earn certificates and/or degrees in Welding, Welding and Fabrication, Industrial Training, and CNC Machining. Dual Credit at HCC: WELD130, WELD232, DRAF105, DRAF106**

Students may apply to the Plumbers & Pipefitters Union Local 23 apprenticeship upon completion and high school graduation.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

INDUSTRIAL TECHNOLOGIES II (22153A001 & 21010A001)

Level:	12 th grade
Class Location:	Highland Community College (Freeport Campus) and/or Work Site
Time:	Varies
Length:	One year
H.S. Credit:	2 credits per year
Post Sec. Credit:	Highland Community College Dual Credit** 6-9 credits
Prerequisite:	Successful Completion of IND TECH I.
HCC Fees:	\$30 registration fee per school year, course and activity fees vary from \$40 - \$500 depending on options below, <u>to be paid by student/parent at HCC</u>
Textbook fees:	Depends on option chosen below
Calendar:	This course follows the HCC calendar



There are 3 different options for year two of the Industrial Technologies course.

Option 1: Students attend college-level courses on Highland's campus during the school day. This option would require permission from the student's school. Courses could include 3D CAD, Machine Processes, CNC Mill, CNC Lathe or other Technical Electives for the alternating days. Students selecting the 3D CAD course could also attend during normal CareerTEC hours. **Option 2:** Students complete Occupational Education (OCED) courses, otherwise known as workplace experience. Students seek part-time paid employment or unpaid internship with an area manufacturer. The employment would align with the HCC Welding and/or CNC Machining programs. **Option 3:** Students could select a combination of options 1 and 2. Students are responsible for gaining the credits required by their high schools. Dual Credit at HCC: SPTP270, SPTP 269 & OCED 290

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

NAIL TECH I (19105A001)

Level:	11 th and 12 th grades
Class Location:	Highland Community College, Freeport
Time:	7:30 – 9:00 a.m., Mon., Tues., and Thurs., Fri
Length:	One-year, double period
H.S. Credit:	2 credits per year
HCC Credit:	Highland Community College - Dual Credit** 4 credits
Prerequisite:	8 th grade reading level and meeting with instructor required for acceptance into this program.
HCC Fees:	\$490 (\$50 smock, \$130 basic student kit and \$120 course fee, \$160 tech & activity fees, \$30 registration fee per school year), <u>to be paid by student/parent at HCC</u>
Textbook Fees:	Approximately \$468 textbooks
Calendar:	This class follows the HCC calendar



An introduction to the profession including salon conduct, ethics, client consultation, decontamination and safety. Students will understand anatomy and physiology of the skin and nails. Students will perform manicures and pedicures.

Course content covers COSM 190.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

NAIL TECH II (19105A002)

Level:	12 th grades
Class Location:	Highland Community College, Freeport
Time:	1:00 – 2:30 p.m., Mon., Tues., and Thurs., Fri
Length:	One year, double period
H.S. Credit:	2 credits per year
HCC Credit:	Highland Community College - Dual Credit** 4 credits
Prerequisite:	8 th grade reading level and meeting with instructor required for acceptance into this program.
HCC Fees:	\$310 (\$120 course fee, \$160 tech & activity fees, \$30 registration fee per school year), <u>to be paid by student/parent at HCC</u>
Textbook Fees:	Same book as year 1
Calendar:	This class follows the HCC calendar



A continuance of the profession including salon conduct, ethics, client consultation, decontamination and safety. Students will understand anatomy and physiology of the skin and nails. Students will perform manicures and pedicures as well as tip application and acrylics.

Course content covers COSM 192.

All accepted students will attend a mandatory orientation meeting prior to the start of classes.

All fees listed for HCC are approximate and are subject to rate changes and textbook pricing at HCC.

NAVY JUNIOR RESERVE OFFICER TRAINING CORPS (NJROTC) (09101A001)

Level: 9-12 grades
Class Location: Freeport High School, Freeport
Time: 7:30 - 9:00 a.m., Mon. - Fri.
Length: One-Year (Up to 4 years of curriculum in total 0 Naval Science 1-4)
H.S. Credit: 1-2 credits per year (May be used for Physical Education requirement)
Calendar: This course follows the CAREERTEC calendar



Navy Junior Reserve Officer Training Corp (NJROTC) is a citizenship/leadership development program. With a four-year curriculum designed to give leaders of the 21st century the knowledge and skills they need to serve our country in a capacity they choose, the course counts as a PE credit. Topics covered include National strategy/defense, US Government, the history of sea power, oceanography, meteorology, astronomy, basic electronics, communications, naval engineering, navigation, and health/nutrition/physical fitness. NJROTC cadets are required to properly wear a uniform one day a week, participate in physical training, and meet specified grooming standards. Naval Science is taught by retired Navy and Marine Corps personnel. Any individual considering entering military service should consider enrolling in this course. Cadet experiences are enriched through participation in any one of seven extra-curricular teams (precision drill team, air rifle marksmanship team, orienteering team, athletic team, and e-sports team, color guard team, or academic team), community service projects, or overnight trips to various colleges, universities, and military facilities throughout the United States.

Uniforms, textbooks, training aids, etc. are provided by the United States Navy. Additionally, various 3- and 4-year university scholarship opportunities are available to students that qualify. Any student attending NJROTC classes are eligible for advance promotion when entering active duty. Enrollment is open to grades 9 through 12. Students may take the course for one to four years. Credit can be used to meet the physical education requirement for graduation. Enrollment in this course does not obligate the student for military service in any branch.

HIGHLAND COMMUNITY COLLEGE DUAL CREDIT

Dual credit provides students the opportunity to earn high school and Highland Community College credit simultaneously. These credits become a part of the student's permanent transcript upon successful completion of the course. They may transfer to any educational institution according to the acceptance policies of that institution just as any other credits earned at Highland.



CAREER AND TECHNICAL EDUCATION CONSORTIUM

2037 W. Galena Avenue, Freeport, IL 61032, 815.232.0709

CAREERTEC does not discriminate on the basis of race, religion, color, national origin, gender, or disability in any of its educational programs or in the provision of services to the student.

Freeport High School Courses Only

COMPUTER NETWORKING I

Level:	11 and 12 th grade
Class Location:	St. John's Church, Freeport
Time:	9:20 – 10:50 a.m., Mon – Fri. B days
Length:	One-year, double period
H.S. Credit:	2 credits per year
Calendar:	This course follows the Freeport calendar



This program is only open to Freeport High School students

Computer Networking I is a skill-level course designed to provide students with the skills needed to set up, configure, test, troubleshoot, maintain, and administer a data network using various network operating systems such as Windows, Linux and Unix. Instruction will include network planning decisions, such as choosing an appropriate network configuration, determining the performance level requirements considering the differences among operating systems, and recommending network interface cards and cabling. Students will also learn how to set up and manage file systems and resources, and network topologies, protocols, and system utilities to efficiently run software applications on a network. Students will learn to use basic operating system commands, install, and configure networks, set up user accounts and rights, and establish user security and permissions. Students will be working in the Cisco Networking Academy Lab on intermediary devices such as switches and routers.

CYBERSECURITY

Level:	12 th grade
Class Location:	St. John's Church, Freeport
Time:	9:20 – 10:50 a.m., Mon – Fri. A days
Length:	One-year, double period
H.S. Credit:	2 credits per year
Prerequisite:	Completion of Computer Networking I
Calendar:	This course follows the Freeport calendar



This program is only open to Freeport High School students

Cybersecurity courses introduce students to the concepts of cybersecurity. This course provides students with the knowledge and skills to assess cyber risks to computers, networks, and software programs. Students will learn how to create solutions to mitigate cybersecurity risks. Students will use Cisco Networking equipment and the Cisco Academy Network Packet Tracer. These courses may also cover the legal environment and ethical computing behavior related to cybersecurity.

MONEY MANAGEMENT & BUSINESS COMMUNICATIONS

Level:	11th and 12th grade
Class location:	St. John's Church, Freeport
Length:	One-year
Time:	9:20 - 10:50 a.m., Mon. - Fri., A or B day
H.S. Credit:	1 credit per year
Prerequisite:	Integrated Math II and English 10 with a "C" average
Post Sec Credit:	Highland Community College - Dual Credit **3 credits
Calendar:	This course follows the Freeport calendar



This program is only open to Freeport High School students

Money Management

(Group 3 course – skill-level course)

In this class you will learn how to make financial good decisions. Topics covered are developing a budget, exploring savings opportunities, understanding credit, credit reports, and how to improve credit. We will evaluate banking and how to protect yourself from financial disaster using many types of insurance policies, wills, and trusts. Learn how to grow your money by investing in stocks, bonds, mutual funds, and 401K programs. College choice, career planning, and the financial impacts educational financing, loans, and scholarships have on your future financial success are also emphasized.

Business Communications -Dual Credit

(Group 2 course – orientation-level course)

This course will focus on two main areas: the written and spoken communication we use every day. Students will learn how to write different types of letters, memos, business proposals, resumes, letters of reference, and personal statements. We will evaluate non-verbal communication skills and how to work successfully in teams. Lastly, learn how to plan and deliver an amazing presentation (on your favorite topics and without being nervous) before you go into the workforce and/or college.

EDUCATION CAREER PATHWAYS (19151A001, 19152A001, & 19198A001)

Level: 11th and 12th grade
Class location: Freeport High School, Freeport
Length: One-year, double period
Time: 1:00 - 2:30 p.m., Mon. - Fri.
H.S. Credit: 2 credits per year
Calendar: This course follows the Freeport calendar

**Foundations to Teaching**

This course introduces students to the principles underlying teaching and learning, responsibilities and duties of teachers, and strategies and techniques to deliver knowledge and information.

Educational Methodology

This course introduces students to the principles underlying teaching and learning, responsibilities and duties of teachers, and strategies and techniques to deliver knowledge and information.

Future Educator

Prerequisite: Students with a desire to be a competent professional representation of FHS in the public work force. Eleventh and twelfth grade students are eligible to complete a semester-long field experience at our lab schools: Blackhawk Elementary, Freeport Middle School or Freeport High School under the supervision of FSD145 teachers. Students will first engage in teaching methodologies and expectations and then will be assigned to a mentor teacher. Regular observations in their work environment accompanied by regular meetings with FHS campus staff will guide interested future teachers to a strong field experience. * Students may qualify for the OCED 250 credit through Highland Community College for this experience. Final determination will be determined by HCC. · OCED 250 is not associated with any internship type hours. This would be content covered in class and should match (meet or exceed) the content of the syllabus of that class. · HCC will create a specific list of programs that correspond with this dual credit opportunity. · Students may take the Future Teacher Work Based Learning class for Freeport High School credit. Students may earn up to two credits (one per semester) if they reach a minimum of 75+ hours per semester. · This type of work based learning experience is not affiliated with HCC · Juniors (.5 credits each semester, 1 credit per year) · Seniors (1 credit each semester, 2 credits per year if enrolled for two periods)

Program open to Freeport High School students first. Only up to 6 non-FHS students will be accepted