

# PECATONICA HIGH SCHOOL



2018-2019

HIGH SCHOOL  
COURSE CATALOG  
& PLANNING GUIDE

## TABLE OF CONTENTS

Four-Year Plan.....	1
Graduation Requirements.....	2
Definitions and Procedures.....	2
College Entrance Requirements.....	5
Standardized Testing.....	5
Freshmen NCAA Eligibility Requirements.....	5
Illinois State Universities Guidelines.....	6
Dual Enrollment Courses.....	8
Aide Positions.....	9
Agriculture.....	10
Business.....	12
Driver’s Education.....	13
English.....	14
Fine Arts.....	16
Foreign Language.....	18
Health and Physical Education.....	20
Industrial Technology.....	21
Mathematics.....	23
Science.....	25
Social Science.....	28
CareerTEC.....	31

## INTRODUCTION

This bulletin is designed to provide students and parents with a brief description of the required and elective courses offered at Pecatonica High School. The purpose is to help them choose courses that will be the most beneficial to their needs and interests in developing the groundwork for their chosen career field. While each description cannot fully describe each class, if you would like additional information about a particular course offering, please feel free to contact the administration, counselor, or the respective teacher. Each will be more than happy to assist you whenever possible.

## GRADUATION REQUIREMENTS

**FOUR YEAR PLAN** - The chart below should be used as a worksheet for planning a student's four-year curriculum. Required courses have already been put into place during the appropriate year. Blank boxes indicate spaces to schedule electives that should be chosen to meet the goals and needs of the student. As there are no study halls offered, please make certain you have chosen enough offerings to fill eight periods both semesters.

	Freshman	Sophomore	Junior	Senior
1	English I	English II	English III	English Electives (1 cr)
2	Algebra 1 OR Honors Geometry	Geometry OR Algebra 2	Algebra 2 OR Algebra 3/Trigonometry OR Pre-Calculus	
3	Biology OR Advanced Biology	Physical Science OR Chemistry 1	Science elective (Earth Science, Chemistry 1, Anatomy, Chemistry 2, Zoology, AP Chemistry, Physics, Forensics)	
4	Big History (Class of 2022 +) World Geography (all others)	American History		American Govt /Economics
5	P.E.	Health/P.E.	P.E.	P.E.
6				
7				
8				

**REQUIREMENTS FOR GRADUATION** - Students need 28 credits and must attend at least four (4) full years in order to graduate. The following courses must be taken and passed in order to earn the credits shown for graduation:

- 4 credits English
- 3 credits Math – to include Algebra 1 and Geometry content
- 3 credits Science
- 3 credits Social Science
  - Class of 2022 and beyond: Big History, American History, & American Government/Economics
  - Class of 2019, 2020, 2021: World Geography, American History, & American Government/Economics
- ½ credit Health
- 3 ½ credits Physical Education (7 semesters---See PE exemption)
- 1 credit of either art, music, foreign language or vocational education
- Successful completion of the Senior Portfolio Project
- Successful completion of the Constitution Test (given in American Government senior year)

The remaining units of credit may be selected from any elective credit course offered at the high school level.

## **DEFINITIONS AND PROCEDURES**

**CREDIT EARNED** – All credit is awarded on a semester basis. A student must pass each semester of a year-long course to receive full credit.

**COURSE LOAD** – All students must take 8 classes. Students may not drop any course without the approval of the school counselor and/or principal, and parent. Dropping a yearlong course at the end of first semester will result in a grade of F earned for the second semester, unless approved by the school counselor and principal.

**GRADE LEVEL CLASSIFICATION** – Grade level classification is determined by the number of credits a student has earned. Grade level classification determines a student’s eligibility to participate in class activities (i.e. Homecoming, Prom, etc.) and is a warning that a student may not be able to complete graduation requirements within the usual four-year time span. Please contact the counseling office to determine the exact status of a student.

- Sophomore status = 7 credits
- Junior status = 14 credits
- Senior status = 20 credits

**GRADING SCALE, GRADE POINT AVERAGE (GPA), and WEIGHTED CLASSES** – GPA will be calculated using the following grading scale:

<i>GRADE</i>	<i>SCALE</i>	<i>UN-WEIGHTED</i>	<i>WEIGHTED</i>
A+	97-100	4.33	5.33
A	93-96.99	4	5
A-	90-92.99	3.67	4.67
B+	87-89.99	3.33	4.33
B	83-86.99	3	4
B-	80-82.99	2.67	3.67

C+	77-79.99	2.33	3.33
C	73-76.99	2	3
C-	70-72.99	1.67	2.67
D+	67-69.99	1.33	2.33
D	63-66.99	1	2
D-	60-62.99	.67	1.67
F	0-59.99	0	0

Calculation of the grade point average equals the number of grade points earned divided by the number of courses taken. Classes earning weighted GPA points will have one honor point added for the purpose of academic recognition at graduation (see class rank section below).

Beginning with the class of 2017, only Advanced Placement (AP) courses will be weighted.

**CLASS RANK** – Class rank is not reported on transcripts. Students will be recognized for academic achievements at graduation following the Latin system.

Summa cum Laude: Weighted GPA of 4.0+

Magna cum Laude: Weighted GPA of 3.75 – 3.99

Cum Laude: Weighted GPA of 3.50 – 3.74

**CHANGE OF GRADE** – Final grades, once given out, cannot be changed without a written request for the change of grade signed by the issuing instructor, or, in the absence of the issuing teacher, the school counselor and/or building administrator. A request of a grade change must be made before the end of the semester immediately following when the class was offered. Grade changes after this time will not be considered.

**REPEATING A COURSE** – A student may elect to repeat a course for which he or she has already earned credit in order to increase mastery of the subject. The better grade will be calculated as part of the student's GPA. The original grade earned will remain on the transcript but will not be used for calculation.

**SHARED COURSES** - CareerTEC classes may be taken by junior and senior level students who meet grade and application requirements. See the back of the registration guide for class opportunities. Other shared classes may be taken at Durand High School or Winnebago High School upon available seating. Students taking a shared course will be required to have a travel period put into their schedule in order to accommodate the time needed to travel to classes. This will result in taking fewer classes and earning less credits per year (earning 7 credits instead of 8).

**CORRESPONDENCE, ONLINE, CREDIT RECOVERY & SUMMER SCHOOL** – Students may take up to one (1) credit per year of correspondence, online, credit recovery or summer school courses to meet graduation requirements. These courses need to be approved in advance by the school counselor and/or principal. Grades earned will be recorded as a pass or fail on the student's transcript and will not be used in calculation of GPA.

**INDEPENDENT STUDY** – Junior and senior students may be granted independent study upon written recommendation of the instructor and approval of the principal. Independent Study will only be considered when a scheduling conflict has occurred and the class will aid the student in his/her post-high school career plans. Students will be limited to one independent study class during their high school career.

**SCHEDULE CHANGES** – Staffing decisions are based on students’ course requests made during the registration process. For that reason, students are urged to consider their selections carefully. The parent’s signature after filling out the registration form indicates that both the student and parent are satisfied with this selection of classes if they can be placed on next year’s schedule without a conflict. Schedule changes can produce the following undesirable effects:

- Reduced class size to the point where it is no longer practical to offer the course.
- Increased class enrollment to the extent that a positive learning environment will no longer be possible.
- Difficult for teachers to begin instruction at the start of the semester.
- The suggestion to students that prior planning is not important to the development of their schedule or career choices.

As a result of the school schedule being organized according to registration, schedule changes will not be allowed unless counselor, principal, teachers, and parents agree and feel it is best for the student’s educational progress. It is very important that you register for classes that will accomplish your high school educational plan.

**TRANSFER POLICY** – When a student has transferred to PHS from a different school district, a ratio formula will be used to calculate the number of credits required for graduation and grade level classification. Students will not be penalized for not being able to take as many courses as PHS students over their four years of high school.

**WITHDRAWAL/FAILING POLICY** - Students will be able to drop a class with no record of taking it if the teacher recommends that he/she do so because of being misplaced. Teacher, student, parents, counselor and principal must all agree it is the best choice for the student and the only option.

Students may be dropped from class with a Withdrawal/Fail (WF) grade for semester because of continual discipline problems - with approval of teachers, counselor, and principal. "WF" grade will be averaged into that semester’s grade point average and class work.

Students may not pick up another class if he/she was a “WF”. Parents/guardians will be expected to monitor the student (on school grounds) during the time the student is no longer in the withdrawn class. Parents unable to supervise their child will be expected to pay the district to hire a substitute teacher.

**PHYSICAL EDUCATION EXEMPTION** –P.E. exemptions may be approved if the following conditions are met:

- Any junior or senior student who participates in an inter-scholastic athletic program (this does not include Spirit Makers or Cheerleading). If student-athletes take an extra course in place of physical education and that course is a full-year course, the student may be excused from physical education for the entire year even if the inter-scholastic sport covers less than that time period. Student-athletes may substitute a semester-long course, regardless of the length of the sport season. Students not in either type of academic class are expected to be reassigned to a physical education class once their particular sport’s season has ended.
- Any junior or senior student who, in order to be admitted to a specified institution of higher learning, must complete a specific academic course not included in existing state or local minimum graduation standards.
- Any junior or senior student who lacks sufficient course credit or lacks one of more specific courses in order to meet state and local graduation requirements.
- A student attending a class or classes at another school in the Durand-Pecatonica-Winnebago Cooperative, CareerTEC, Running Start, or CollegeNOW.
- Students taking Health class may be excused from taking PE during the semester they are enrolled in Health.

## **COLLEGE ENTRANCE REQUIREMENTS & STANDARDIZED TESTING**

**COLLEGE PREPARATORY STUDENTS** – Students who are considering attending college should plan their high school courses early, keeping college requirements in mind. Each college will have varying requirements, and while no single pattern or preparation will meet the admissions requirements of all colleges, the following is a general guideline:

English - 4 Years	Mathematics - 4 Years
Foreign Language - 2 Years	Social Sciences - 3 Years
Lab Science - 3 years (with 2 years being Chemistry and Biology)	

Individual public colleges and universities may have additional subject requirements, as well as requirements involving test scores and grade point averages.

Many schools do not have specific course requirements. They do require graduation from an accredited high school and use other factors for admission. Check the following section, STATE UNIVERSITIES IN ILLINOIS - AT A GLANCE. Students should contact the school counselor for the admission requirements for specific schools.

**STANDARDIZED TESTING** – In addition to local assessments, student progress will be assessed yearly through standardized testing.

MAPs testing will be given to freshmen, sophomore, and junior students periodically throughout the year (typically in September, January, and May).

PSAT will be given to students in grades 9, 10, and 11.

The SAT will be given to all students in grade 11, as part of mandated state testing. The SAT is a college-entrance exam.

Students falling below state standards may be required to take additional classes in order to improve their skills to meet the minimum requirements set by the state of Illinois. It is very important that students take the tests seriously and try their best. Changes may occur in a senior student's schedule upon receipt of standardized test scores in the summer.

Optional standardized tests for students to participate in are listed below. Sign-up for these tests are typically a month before the test is administered and are listed in the daily announcements.

- PSAT/NMSQT (October)
  - This test is for sophomores and juniors. Juniors who score well enough on this test may qualify for scholarships through the National Merit Scholarship Corporation.
- ASVAB (September)
- AP Exams (May)
- ACT (Sept., Oct., Dec., Feb., Apr., June)
  - Given at different locations on a Saturday at various sites in the Rockford/Freeport area. Registration is available online at [www.actstudent.org](http://www.actstudent.org)
- SAT (Sept., Oct., Dec., Feb., Apr., June)
  - Given at different locations on a Saturday at various sites in the Rockford/Freeport area. Registration is available online at [www.collegeboard.org](http://www.collegeboard.org)

## **NCAA GUIDELINES**

**FRESHMAN NCAA ELIGIBILITY REQUIREMENTS** – Students entering Division I and II institutions as freshmen must meet specific course, credit, GPA, and test score requirements in order to qualify for participation in intercollegiate athletics and for the receipt of athletically related financial aid. Students must also participate in the NCAA Clearinghouse. Those interested in further details should contact the counselor or visit [www.ncaaclearinghouse.com](http://www.ncaaclearinghouse.com).

# Comparative Freshman Course Requirements

	Total	English	Social Studies	Mathematics	Laboratory Sciences	Electives/Other
Chicago State University	15	4 <sup>1</sup>	3 <sup>7</sup>	3 <sup>6</sup>	3 <sup>12</sup>	2 foreign language, music, vocational education, or art +
Eastern Illinois University	15	4 <sup>1</sup>	3 <sup>4</sup>	3 <sup>8</sup>	3	2 years of academic or vocational electives
Governors State University	15	4 <sup>1</sup>	2	3 <sup>10</sup>	2	2 years of one foreign language or fine arts; and 2 years of electives
Illinois State University	15	4	2	3 <sup>10</sup>	2	2 years of one foreign language or fine arts; and 2 years of electives.
Northeastern Illinois University	15	4 <sup>1</sup>	3 <sup>4</sup>	3 <sup>8</sup>	3	2 years of foreign language (FL), or 2 years of fine arts (FA) or a combination of 1 year FA/FL and 1 year of vocational education.
Northern Illinois University	15	4 <sup>2</sup>	3 <sup>5</sup>	3 <sup>9</sup>	3 <sup>13</sup>	2 units (one must be foreign language, art, or music); Up to three units of the required fifteen units may be distributed throughout any of the five categories of course work. Vocational education may satisfy up to three of the units.
Southern Illinois University, Carbondale	15 or 16	4 <sup>1</sup>	3 <sup>7</sup>	3 or 4 <sup>10</sup>	3 <sup>12</sup>	2 years of electives in foreign language, art, fine arts, music or vocational education; if a foreign language is taken, it must include two semesters of the same language.
Southern Illinois University, Edwardsville	15	4 <sup>1</sup>	3 <sup>4</sup>	3 <sup>10</sup>	3	2 years chosen from foreign language, music, the visual arts, theatre, dance and/or vocational education.
University of Illinois at Chicago	16	4	3	3	3	2 years of foreign language (recommended); 1 year of electives.
University of Illinois at Springfield	15	4 <sup>3</sup>	3 <sup>5</sup>	3 <sup>10</sup>	3 <sup>12</sup>	2 years of one foreign language or 2 years of fine arts, selected from art, music, dance and theatre are required.
University of Illinois at Urbana-Champaign	15/15.5	4 <sup>3</sup>	2 <sup>7</sup>	3 or 3.5 <sup>11</sup>	2 <sup>12</sup>	2 years of one foreign language are required; and 2 years (flexible academic units) from any of the five subject categories. Approved art, music, or vocational education courses may be counted in the flexible academic units category.
Western Illinois University	15	4 <sup>1</sup>	3 <sup>4</sup>	3 <sup>8</sup>	3	2 years of foreign language, music, vocational education, art, theatre, film, religion, philosophy, speech or journalism+

## NOTES:

+ Suggested electives - includes other academic courses.

1) Emphasizing written and oral communication and literature.

2) Three units of English must be courses emphasizing written and oral communication and literature.

3) Studies in language, composition, and literature requiring practice in expository writing in all such work. Coursework should emphasize reading, writing, speaking, and listening.

4) Emphasize history and government.

5) One unit must be U.S. history or a combination of U.S. history and government.

6) At least 2 years of history and/or government, other acceptable subjects are anthropology, economics, geography, psychology, and sociology.

7) History and government are preferred. Additional acceptable social studies include anthropology, economics, geography, philosophy, political science, psychology, and sociology.

8) Introductory through advanced algebra, geometry, trigonometry, or fundamentals of computer programming.

9) College preparatory mathematics, including one year of geometry and one year of advanced algebra and/or trigonometry.

10) Algebra I & II, and a proof-based geometry course. A fourth unit is highly recommended: trigonometry and pre-calculus, or statistics, depending on the student's area of interest.

11) Algebra, geometry, advanced algebra, trigonometry. Typically, such courses as career/occupational mathematics, consumer mathematics, applied business mathematics, pre-algebra, and computer courses are not acceptable. 3.5 years of mathematics including trigonometry are required in the following curricula: Agricultural, Consumer and Environmental Sciences - agricultural engineering; Business - all curricula; Engineering - all curricula; Fine and Applied Arts - architectural studies; Liberal Arts and Sciences-specialized curricula in biochemistry, chemical engineering, chemistry, geology, and physics.

12) Laboratory courses in biology, chemistry, or physics are preferred. Laboratory courses in astronomy and geology are also acceptable. General science will not be acceptable.

13) Two units must be courses in the physical or biological sciences. One unit must be a laboratory science.

## Foreign Language Requirements for Admission and Graduation

	Foreign Language Requirement for Admission	Foreign Language Requirement for Graduation
Chicago State University	Not required	All programs – 6 hours of college language (can be met by assessment/proficiency test or college level courses only)
Eastern Illinois University	Not required, 2 years recommended	2 semesters of college language (can be met by 2 years of single foreign language in high school with "C" or better average)
Governors State University	2 years of one foreign language or 2 years of fine arts	Not required
Illinois State University	2 years of one foreign language or 2 years of fine arts	College of Arts and Sciences - 2 semesters of college language (can be met by successful completion of 3 years of same foreign language in high school). American Sign Language may be used to fulfill this requirement by transfer credit or by proficiency. Bachelor of Arts – 3 semesters of college language (may be met by proficiency test or college level courses only)
Northeastern Illinois University	Not required	Not required
Northern Illinois University	Humanities: 2 years of foreign language or combination of language, art, music, theatre	Bachelor of Arts - 2 years of one foreign language at the college level (can be met by 4 years of one foreign language in high school with "C" or greater in each course)
Southern Illinois University, Carbondale	Not required; used toward fulfillment of 2 year elective requirement. Must include two semesters of the same language.	College of Liberal Arts - one year (2 courses) of college language (met by college coursework or exam only) some degrees in College of Liberal Arts are exempt
Southern Illinois University, Edwardsville	Not required – 2 years recommended	Bachelor of Arts – college language required (met by college level coursework only)
University of Illinois at Chicago	Not required – 2 years recommended	College of Business Administration: 2 semesters at collegiate level; can be waived with 2 years at the high school level or if students native language is not English  All programs in the College of Liberal Arts and Sciences, Urban Planning and Public Affairs, as well as the Public Health, and Art History: 4 semesters at the collegiate level
University of Illinois at Springfield	2 years of one foreign language OR 2 years of fine arts	Honors students must have 2 years of one language
University of Illinois at Urbana-Champaign	2 years of one language required. 4 years recommended	Colleges of Business and Liberal Arts and Sciences: up to the 4th collegiate level of foreign language (can be met by 4 years of one high school foreign language)  All other colleges - up to the 3rd collegiate level (can be met by 3 years of one high school foreign language)
Western Illinois University	Not required	Selected majors - bi-cultural, bi-lingual education, foreign language, and biology (can be met by 2 years of high school foreign language)

## Comparative Undergraduate Admission Information

### Admission as a Freshman

The standardized test score, GPA and class rank middle 50% ranges of the entering freshman class of 2017 show that admission standards vary across the twelve universities. Note that since a holistic approach\*\* is used in the admission review process, having standardized test scores, GPA, and class rank within the entering freshman profile does not guarantee admission.

	ACT middle 50%	SAT middle 50% (M+CR only)	GPA	HSPR		ACT middle 50%	SAT middle 50% (M+CR only)	GPA	HSPR
CSU	19	*	3.1	71.5	SIUC	19-25	*	2.62-3.60	38-80%
EIU	18-24	*	2.69-3.43	*	SIUE	20-26	1020-1260	*	47-85%
GSU	19	*	2.88	*	UIC	21-27	1090-1300	3.1-3.7	73-92%
ISU	21-26	1060-1270	3.08-3.80	*	UIS	19-25	980-1230	2.91-3.80	49-85%
NEIU**	16-36	860-1600	**	N/A	UIUC	27-33	1360-1480	3.37-3.89 UW	No longer calculated
NIU	19-25	*	2.86-3.71	46-80%	WIU	18-23	940-1130	2.54-3.35	Top 40%

### Middle 50% for ACT Composite Scores, GPA and Class Rank for Entering Freshman Class of 2017

\*No middle 50% is collected.

\*\* School uses an admissions formula to determine eligibility for admission. See school for details.

## ADDITIONAL LEARNING OPPORTUNITIES

### DUAL CREDIT / DUAL ENROLLMENT COURSES

*Junior or Senior level status*

*Achieved a GPA of at least a 3.0*

*Meet college-readiness standards on standardized assessments.*

*Subject to approval from building principal and counselor*

Dual Credit / Dual Enrollment courses are offered through Rock Valley College or Highland Community College depending on which district you reside in. These courses can be taken on campus (as it fits into your schedule) or online at the high school. If a course is taken online, the student will be assigned to the library for a class period to work on the course. A separate application is required to register for these courses and a placement test must be taken at either RVC or HCC. All costs are the responsibility of the student. Dual credit courses are reported on the transcript and do affect credits and GPA. Dual enrollment classes are not reported on the high school transcript, and therefore do not affect credits and GPA. Student schedules are amended to allow time to leave campus early/arrive late in order to fit this in the school day. Students can earn college credit based on passing grades.

### RUNNING START (ROCK VALLEY COLLEGE) DUAL CREDIT PROGRAM

### CollegeNOW (HIGHLAND COMMUNITY COLLEGE) DUAL CREDIT PROGRAM

*Junior or Senior level status*

*Achieved an unweighted GPA of at least a 3.75 at the end of the 3<sup>rd</sup> or 5<sup>th</sup> semester*

*Completed Geometry and Algebra 2 with a grade of 87.00% or better at the end of each semester*

*Completed Chemistry 1 with a grade of 87.00% or better for the Engineering/Science program at RVC.*

*Achieved a minimum score of 19 on all four subscores of the ACT or SAT Total Score range of 980-1010.*

*Complete an interview with the college committee*

*Subject to approval from building principal and counselor*

Qualified junior students have the opportunity to earn both their high school diploma and associates degree at the same time. Qualified senior students have the opportunity to get a jumpstart on their college career. All classes are held at the respective colleges - students do not attend class at PHS. Courses will be listed on their high school transcript for high school credit. College classes worth 3 credits or below will earn 0.5 credit per semester, any college classes above 3 credits will earn 1 credit per semester on the high school transcript. Grades earned will also be reported back to the high school and will affect GPA. College courses are not weighted. Separate applications and placement tests are required to participate. Tuition costs for this program are paid by Pecatonica School District. Transportation is not guaranteed.

## AIDE POSITIONS

### ATHLETIC DIRECTOR AIDE

*Junior or Senior level status*

*Administrative approval*

*Attendance and GPA requirement – 95% attendance rate / 2.75 GPA*

Athletic Director Aide positions are offered at the high school depending on the need of the high school athletic director. Students are selected for these positions based on grades, overall attitude, and ability to be independent workers. Athletic Director Aide is a pass/fail course. It does not count towards or against GPA.

### ELEMENTARY TEACHER AIDE

*Senior level status*

*Administrative Approval*

Elementary teacher aide positions are offered at Pecatonica Elementary School depending on the needs of the school. Students are selected for these positions based on career interest, grades, overall attitude, and ability to be independent workers. Students would need to be able to provide their own transportation to and from the elementary school. Elementary teacher aide is a pass/fail course. It does not count towards or against GPA.

### OFFICE AIDE

*Junior or Senior level status*

*Administrative Approval*

*Attendance and GPA requirement – 95% attendance rate / 2.75 GPA*

Office aide positions are offered at the high school depending on the needs of the high school office. Students are selected for these positions based on grades, overall attitude, and ability to be independent workers. Office Aide is a pass/fail course. It does not count towards or against GPA.

### TEACHER AIDE

*Senior level status*

*Administrative Approval*

*Attendance and GPA requirement – 95% attendance rate / 2.75 GPA*

Teacher aide positions are offered at the high school depending on the needs of the faculty. Students are selected for these positions based on grades, overall attitude, and ability to be independent workers. Teacher Aide is a pass/fail course. It does not count towards or against GPA.

## AGRICULTURE DEPARTMENT

### INTRODUCTION TO AGRICULTURE

18001A001

Grade Level: 9

1 Year

1 Credit

This orientation 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. 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.

### AGRONOMY

18051A003

Prerequisite – Introduction to Agriculture OR waiver from teacher

Grade Level: 10, 11 & 12

1 Year

1 Credit

This course is designed to provide students with the knowledge and skills necessary for future employment in the agronomy or related industries. Major units of instruction include scientific method, cellular biology, genetics, biotechnology, soil classifications, soil erosion and management, soil fertility, plant classification, plant anatomy and physiology, plant propagation, plant growth, integrated pest management, grain, oil, forage, sugar, and fiber crop production methods, grain quality, grain storage, and grain transportation. 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. Students will develop management and conservation skills in understanding the connection between agriculture and natural resources. Student knowledge and skills are developed in: understanding natural resources and its' importance; fish, wildlife, and forestry management and conservation; and exploring outdoor recreational enterprises. Hunting and fishing as a sport, growing and managing tree forests, and outdoor safety education will be featured.

### AGRICULTURAL TECHNOLOGIES (formerly known as PSAA)

18449A002

Prerequisite – Introduction to Agriculture OR waiver from teacher

(Fulfills lab science university entrance requirements)

Grade Level: 10, 11 & 12

1 Year

1 Credit

This course is designed to reinforce and extend student's understanding of physical science and the scientific process by associating scientific and math principles and concepts with relevant applications in agriculture. Topics of study are in the areas of scientific investigations, environmental/natural resource systems, agricultural production systems, agricultural structural systems, energy and power systems, agricultural mechanics and machine systems, and food processing systems. The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. This course will concentrate on expanding student's knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are: design, construction, fabrication, maintenance, electricity/electronics, hydraulics, and employability skills.

### VETERINARY TECHNOLOGY

18105A001

Prerequisite – Introduction to Agriculture OR waiver from teacher

Grade Level: 10, 11 & 12

1 Year

1 Credit

This course will develop student's 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. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, 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.

#### AGRICULTURAL BUSINESS MANAGEMENT

18201A001

*Prerequisite – Introduction to Agriculture OR waiver from teacher*

*Grade Level: 11 & 12*

*1 Semester*

*½ Credit*

*3 Highland C.C. credits (AGOC 124) with completion of both Ag Business and Ag Sales*

This course will develop students' understanding of the agricultural industry relating to the United States and World marketplace. Instructional units include: business ownership types, planning and organizing the agribusiness, financing the agribusiness, keeping and using records in an agribusiness, operating the agribusiness, agricultural law, taxes, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus.

#### AGRICULTURAL SALES AND MARKETING

18202A001

*Prerequisite – Introduction to Agriculture OR waiver from teacher*

*Grade Level: 11 & 12*

*1 Semester*

*½ Credit*

*3 Highland C.C. credits (AGOC 124) with completion of both Ag Business and Ag Sales*

This course is designed to develop student knowledge and skills in Agricultural Sales, Agribusiness Marketing, and Commodity Marketing. Instructional units include: agricultural economic principles, marketing and advertising, product development, sales techniques and strategies, communicating with employees and customers, managing risk, international agribusiness, and studying various agricultural companies and career opportunities. Computer software applications and the Internet will be integrated through data management, inventories, and accounting. Student skills will be enhanced in math, reading comprehension, communications, and writing through agribusiness applications. Improving workplace skills will be a focus.

#### HORTICULTURE PRODUCTION AND MANAGEMENT

18051A001

*Prerequisite – Introduction to Agriculture OR waiver from teacher*

*Grade Level: 10, 11, 12*

*1 Year*

*1 Credit*

This advanced course offers instruction in both the greenhouse production and landscape areas of horticulture. Units of study include plant identification, greenhouse management, growing greenhouse crops, landscape design, installation, and maintenance, horticulture mechanics, nursery management, and turf production. Agribusiness units will cover operating a horticultural business, pricing work, advertising, and sales. Improving computer and workplace skills will be a focus.

#### SAE SUPERVISED AGRICULTURE EXPERIENCE

18998A002

*Grades 10, 11, 12*

*1 Year*

*1 Credit*

This course is set up like an independent study course. The student is required to have an Agricultural Enterprise, Agricultural Placement or an Agricultural Science Project. The student is required to keep a record book on the SAE project that includes labor hours, wages, food records (if applicable), activities, skills learned, etc. Record books are turned in periodically and are graded. The instructor will visit the student at least three times during the year to check and help out on the SAE. This is all done outside of classes. See the instructor for consent and a list of sample SAEs. This will count as an agriculture class for any student who could not fit an agriculture class into his/her regular schedule. The SAE will allow a student to be in FFA ONLY after the student has taken an agricultural course.

## BUSINESS COURSES

### YEARBOOK PRODUCTION

11104A000

Grade 10, 11, 12

1 Year

1 Credit

*Prerequisite – A or B in English I and Teacher Consent – students should obtain an application from teacher*

Students will create and market the yearbook. Outside of class responsibilities include: selling advertisements to local businesses and parents, selling yearbooks, finishing pages, photographing sports and activities, and reporting on events to be included in the yearbook. Students will be required to photograph 6 events each semester. Training will be given on all aspects of yearbook creation and marketing. Students should be able to write informational paragraphs and descriptive captions using correct grammar and punctuation. They will be required to interview students, staff and community members for surveys, stories and quotes. Access to a computer with internet capability outside the school day is highly recommended as meeting deadlines is part of the grading process.

### BUSINESS APPLICATIONS

02157A000

Grades 9, 10, (11 at teacher approval)

1 Year

1 ELECTIVE Credit

Business Applications reinforces general math topics and applies these skills to consumer problems and situations. Students will learn about personal finance, financial literacy, financial software applications, computer coding, and basic business skills. Examples of topics covered include budgeting, credit, insurance, buying and selling products and services, managing personal income, investment, and basic computer code language.

## DRIVER'S EDUCATION DEPARTMENT

### DRIVER'S EDUCATION

08152A000

Grades 9, 10, 11, 12

*Prerequisite---students must be at least 15 years old and have passed a total of 8 classes in the previous 2 semesters prior to enrolling in Driver's Education*

Driver Education is divided into two (2) phases.

Classroom – 30 hours

Driving – 6 hours

You must pass both phases in order to receive your final grade in driver education. Your final grade will be the combination of phase one and phase two. If you fail phase two, you will have to repeat that phase until you pass it. Due to increasing enrollment, students not passing driver's education will be unable to retake the class at Pecatonica High School during the regular school year.

A student will work towards receiving their Learner's Permit and Driving Certificate (Blue Slip) while in Drivers Education. Both items are necessary for a student to have in order to get their drivers license. This course will be offered as a before or after school program through Drive Right. Grades and credit for the class are not reported on the high school transcript.

## ENGLISH DEPARTMENT

### ENGLISH I

01001A000

Grade 9

1 Year

1 Credit

English I is a required, one-credit course of reading and writing skills that benefits the student in all classes. Reading comprehension includes the study of short stories, plays, novels, poetry, and nonfiction. Grammar, vocabulary, and public speaking are also a part of the course. This is a writing intensive course.

### ENGLISH II

01002A000

Grade 10

1 Year

1 Credit

English II is a required, one-credit course of reading and writing. One focus of the class will include various types of writing such as expository, narrative, and persuasive. Reading comprehension includes the study of short stories, plays, novels, poetry, and nonfiction. Grammar, vocabulary, and public speaking will be stressed throughout. This is a writing intensive course.

### ENGLISH III – American Literature

01054A000

Grade 11

1 Year

1 Credit

English III is a study of the chronological development of American Literature from 1607 to present. Advanced grammatical and other language principles are studied as they apply to improve writing techniques. Methods of developing and improving individual writing styles are emphasized. Vocabulary and public speaking will also be included throughout the year, as well as longer projects. This is a writing intensive course.

### SENIOR COMPOSITION

01156A000

Grade 12

1 Semester

½ Credit

*Prerequisite*---Successful completion of English I & II

Senior Composition and Communication is a semester class and fulfills the requirement for English. Senior Composition explores reading and writing in the real world. Some material covered: short stories, editorials, propaganda techniques, business communication (verbal & nonverbal), and newspaper articles. In addition, students will study the art of speaking and communication—both verbal and nonverbal. Senior level grammar and public speaking are also covered throughout the semester.

### CREATIVE WRITING

01104A000

Grade 12

1 Semester

½ Credit

*Prerequisite*---Successful completion of English I & II

Creative Writing is a semester class and fulfills the requirement for English. The class includes writing techniques for producing works of fiction. There is no textbook with Creative Writing—the students are given handouts to read. These handouts include different types of literature, authors' comments on writing, and any examples of valuable writings. As a note, this class may be difficult for someone who is shy; students, from time to time, will be required to read and/or share their stories with the class. There is one project, which is writing a children's story. Senior level grammar and public speaking are also covered throughout the semester. This is a writing intensive course.

### MYTHOLOGY

01058A000

Grade 12

1 Semester

½ Credit

*Prerequisite*---Successful completion of English I & II

Mythology fulfills the requirement for an English elective. Mythology primarily focuses on ancient Greek myths, but from time to time mythology from other cultures may be included. This course includes writing for a variety of purposes, senior grammar and vocabulary/spelling. Additionally, a cumulative project,

some smaller writing assignments and projects, including presentations, and a research paper are a part of the curriculum. A successful mythology student will have an ability/desire to read mythology in short story format, write for a variety of purposes, and share opinions in front of the class. This is a writing intensive course.

### SPEECH

01151A000

Grade 12

1 semester

½ Credit

*Prerequisite*---Successful completion of English I & II

Speech is a semester course in communication studies. This course will introduce students to a variety of speech types for many purposes and audiences. Students will learn techniques for effective verbal and nonverbal speech delivery and to overcome speech anxiety. We will also cover other communication related topics, such as listening, the importance of body language for delivery, the impact of effective persuasion in advertising, and others. In addition to writing and delivering speeches, this course will also include senior level vocabulary, reading a variety of texts - including the textbook, formal writing, and senior grammar.

### ADVANCED BRITISH LITERATURE

01056A000

Grade 12

1 Year

1 Credit

*Prerequisite*---Senior standing and the consent of the instructor

This class is designed to bring the student from the high school level of thinking, writing, and speaking to the college level of each area. Our course of study will include major works of British Literature in various forms—novels, poems, short stories, and historical documents. Novels include *Beowulf*, *Dracula*, *The Canterbury Tales*, *Macbeth*, *Jane Eyre*, *1984*; poems/short stories include ballads, epics, and comparative world literature from parallel time periods of history. Mirrored to a realistic experience of college-level literature, this class focuses on in-depth class discussion as well as ample composition opportunities. This is a writing intensive course, which includes an extended research project examining serial killers and how the FBI investigates serial murder.

### FRESHMAN TRANSITION, Language Arts (LA)

22001A000

Grade 9

1 Year

1 ELECTIVE Credit

Students are identified for transition class eligibility on an individual basis based on MAPS scores, PSAT scores, teacher input, GPA, grades earned, and student attitude towards learning. This class will often function as a supplement to English 1, but will act independently at times. The goals of the course include improving reading and writing skills. Students will work specifically on active reading skills through reading comprehension activities paired with oral discussion. Additionally, our class is designed to be flexible and offer students support on specific aspects of English curriculum at times relevant to their development and academic needs.

### SOPHOMORE TRANSITION, Language Arts (LA)

22001A000

Grade 10

1 Year

1 ELECTIVE Credit

Sophomore Transition is designed to help the identified sophomore student build and reinforce basic English skills. Students are placed in this course based on PSAT test scores, teacher input, GPA, and grades earned. The objective of this class is to improve reading, writing, and vocabulary skills. Transition class will act independently at times but will also serve as a resource room for English II work when and if needed.

## FINE ARTS DEPARTMENT

### Art Classes:

#### ART I

05154A000

Grades 9, 10, 11, 12

1 Year

1 Credit

Activities are presented to enable students to gradually build artistic skill and knowledge through a natural progression. Focus is on building basic skills and design sense. Explore and apply a variety of 2D and 3D media, practice planning and sketching ideas, develop artistic content, and re-train your eye to see in light, line, and color.

#### ART II

05154A000

Grades 10, 11, 12

1 Year

1 Credit

*Prerequisites---Art I*

Activities presented will build on Art 1 skills and further them by introducing new techniques and more advanced processes. Focus on advancing your technical ability in both 2D and 3D media while continuing to consider content and subject matter and how they are communicated through art.

#### ART III & IV

05154A000

Grades 11, 12

1 Year (repeatable)

1 Credit

*Prerequisites---Art I & II*

Activities will be formulated in a series of projects which follow a progression of media and allow a great deal of student-generated creativity. Projects will be more complex, independent, and in depth. Emphasis will be on development of style and technique and cover a broad range of two- and three-dimensional media.

#### STUDIO ART

05170A000

Grade 12

1 Year

1 Credit

*Prerequisites---Consent of instructor only*

Geared towards the gifted art student, this class is by instructor consent only. The college or art school bound student who wishes to further, more individualized attention in high school art will find this class very challenging. Projects are on a grade-contract basis, set up by consultations between student and teacher, and adhering to stringent deadlines.

### Music Classes:

#### BAND

05101A000

Grades 9, 10, 11, 12

1 Year

1 Credit

*Prerequisite--- Middle School Band or permission of the director*

This is a performance-based class as well as an academic class, and therefore students are required to attend all scheduled concerts and the organizational contest in the spring.

The activities of the Band include the following:

Marching Band provides half-time entertainment at all home football games.

Pep Band performs at various home basketball and volleyball games.

Concert Band, in which students study and explore performance practices as they relate to various styles of music, ranging from Bach to Rock.

### CHORUS

05110A000

*Grades 9, 10, 11, 12*

*1 Year*

*1 Credit*

*Prerequisite--- Middle School Choir or permission of the director*

Chorus is offered for all students and is a one-credit course. This is a performance-based class. Students are required to attend the scheduled concerts and organizational contest. Students also have the opportunity to perform for solo and ensemble contest and audition for All-State. Knowledge and Skills taught include: music literacy (pitch and rhythm), vocal technique, musical articulations and styles.

### MUSIC LITERACY/THEORY

05113A000

*Grades 9, 10, 11, 12*

*1 Year*

*1 Credit*

This class combines Music Theory and Ear Training/Sight Reading elements into one class. This class will benefit both the traditional student musician (band, chorus, orchestra) and the non-traditional student musician (pop, rock, country). Music theory teaches the basic components of tonal music and how they are assembled. The knowledge taught includes scales and keys (major and minor), intervals, triads and seventh chords (including inversions), non-chord tones, and cadences. Ear training/sight reading is designed to teach student musicians the listening and literacy skills required of all musicians, no matter what instrument they specialize in. All musicians need to be trained to recognize music's auditory elements as well as read them. Skills taught include sight reading (pitch and rhythm), music notation (pitch and rhythm), plus the recognition of basic harmonic and melodic elements.

### HISTORY OF POP MUSIC IN THE 20<sup>TH</sup> CENTURY

05116A000

*Grades 9, 10, 11, 12*

*1 Year*

*1 Credit*

This class will trace the origins and history of popular music from the 1950's to the present. This course will cover the rockabilly, rock and roll, heavy metal, R&B and rap genres of music. We will analyze the influence of music on society, art and American culture. Musical groups that will be covered, but not limited to are: Elvis Presley, The Beatles, The Rolling Stones, Jimi Hendrix, Led Zeppelin, Michael Jackson, Metallica, and RUN-DMC. Students will understand what effect music has on culture and how culture affects music.

## FOREIGN LANGUAGE DEPARTMENT

The goal of the study of Spanish is to allow students to acquire enough Spanish fluency that will allow them to feel comfortable using Spanish in social situations, in the job market, and in college-level Spanish courses.

### SPANISH I

06101A000

Grade 9, 10, 11, 12

1 Year

1 Credit

Spanish I is an introductory course designed to teach the student basic skills in listening, speaking, reading, and writing in Spanish. Spanish vocabulary and grammatical structures are taught through songs, dialogues, stories, games and written work. Students will be given daily homework assignments. Memorization of vocabulary is extremely important and should be practiced daily at home. Students will also learn about the culture of the Spanish speaking people and how their lives and language are both similar and different from people in the United States.

### SPANISH II

06102A000

Grades 9\*, 10, 11, 12

1 Year

1 Credit

*Prerequisite---Pass Spanish I with a C or better grade*

Spanish II is a continuation of Spanish I. Basic skills are reviewed and subsequently, new and more complex material is presented. The format of the class is the same as Spanish I with emphasis on conversational Spanish and the study of grammar. In the classroom, games, songs, dialogues, and stories are used to facilitate conversation in Spanish. Memorization of new vocabulary, as well as recognition of Spanish I vocabulary, is the key to success in this class. Students should review old as well as new vocabulary daily in addition to doing written homework assignments.

\*If the student has completed a year or more of Spanish at their previous school or is a native speaker, they may be placed in this class provided they pass a placement test with an A or B.

### SPANISH III

06103A000

Grades 9\*, 10\*, 11, 12

1 Year

1 Credit

4 Rock Valley College Credits

*Prerequisite--- Spanish II with a C or better grade*

*Must take Reading placement test at Rock Valley College by September 1.*

Spanish III is an advanced course designed to develop a student's ability to communicate in the Spanish language in social settings, travel, in the work place, and at the college level. Students must enroll and pass a placement test at Rock Valley College in order to be in this class. The option to earn dual credit at RVC will be available for a fee. Spanish will be spoken by the teacher and student nearly the entire class period with the goal being "Spanish only" 90% of the time. The student will review and use all verb tenses, be introduced to more advanced grammar, and will continue to gain knowledge and understanding of the Spanish culture. Short stories from Spanish literature will be read and discussed. Students will also follow a soap opera created for students learning Spanish.

\*If the student has completed two years or more of Spanish at their previous school or is a native speaker, they may be placed in this class provided they pass the Spanish II Spring Final Exam with an A or B.

SPANISH IV

06104A000

Grade 9\*, 10\*, 11\*, 12

1 Year

1 Credit

4 Rock Valley College Credits

*Prerequisite--- Spanish III with a C or better grade*

Spanish IV is an advanced course designed to further develop a student's ability to communicate in the Spanish language in social settings, travel, in the work place, and at the college level. Students must enroll and pass a placement test at Rock Valley College in order to be in this class. The option to earn dual credit at RVC will be available for a fee. Spanish will be spoken by the teacher and student nearly the entire class period with the goal being "Spanish only" 90% of the time. The student will review and use all verb tenses, apply their advanced grammar skills, and will continue to gain knowledge and understanding of the Spanish culture. More short stories from Spanish literature will be read and discussed. Students will also follow another soap opera created for students learning Spanish.

\*If the student has completed two years or more of Spanish at their previous school or is a native speaker, they may be placed in this class provided they pass the Spanish 3 Spring Final Exam with an A or B.

## HEALTH & PHYSICAL EDUCATION DEPARTMENT

### HEALTH

08051A000

Grade 10

1 Semester

½ Credit

#### **\*\*Required Course**

Health is concerned with helping the student set up a healthful pattern of living. This includes keeping the students up-to-date on current topics. Several areas covered during the semester are the following:

Mental Health

Stress

Sexually Transmitted Diseases

Communicable Diseases

Chronic Diseases

Safety

Consumer Health

Current Health Issues

Human Sexuality

### PHYSICAL EDUCATION

#### PHYSICAL EDUCATION 9

08001A000

Grades 9, 10, 11, 12

1 Year

1 Credit

Physical Education focuses on daily physical fitness. Instruction and supervised practice will be combined to maintain and strengthen the student's skill level in team and individual sports to reinforce retention through adulthood. A major goal will be to provide knowledge about physical fitness including flexibility, strength and cardiovascular health. We want to improve or maintain fitness levels and allow students to maintain physical fitness throughout life.

### FITNESS FOR LIFE

08016A000

Grade 11, 12

1 Year

1 Credit

This class will help students understand the importance of physical fitness and staying fit for life. Students will learn and demonstrate skills that will benefit them for life. They will understand the importance of warm up, stretching, cool down and proper form and technique for several exercise skills. Students will demonstrate skills in weight training at a beginner level and progress to higher levels at their own pace. Students will also be able to apply information on topics such as health and fitness components, target heart rate zones, and FITT (frequency, intensity, time, and type) principles. Activities will include walking, jogging, weight training, aerobics and aerobic activities, individual sports and activities, and some team sports and activities. Technique, safety, and proper progression will be highly stressed. Students will understand how to develop a fitness/exercise plan of their own and proper nutrition for exercise. Students will also understand the benefits of exercise on stress and anxiety.

### ADVANCED PHYSICAL EDUCATION

08005A000

Grades 10, 11, 12

1 Year

1 Credit

*Prerequisite –Teacher Consent*

Advanced P.E. focuses on strength training and conditioning. Students will learn basic forms of exercise and will advance to higher-level techniques and training programs.

## INDUSTRIAL TECHNOLOGY DEPARTMENT

### ILLINOIS PLAN FOR INDUSTRIAL EDUCATION

21052A002

Grades 9, 10, 11, 12

1 Year

1 Credit

This course will be taught in accordance with the Illinois Plan for Industrial Technology Education. This is an exploratory class in the area of technology. The areas of technology to be covered are: basic drafting, introduction to CAD (Computer Aided Drafting), basic safety and woodworking, design and problem solving, and the introduction to welding. Students will learn the differences between criteria and constraints. The content will be presented through short lectures, class discussion, and demonstrations. Most of the time will be spent experiencing "hands-on" learning activities.

### WOODS I

17007A003

Grades 10, 11, 12

1 Semester

½ Credit

*Prerequisites---Illinois Plan for Industrial Education or instructors consent*

Students will be assigned teacher woodworking projects. Each project will introduce the student to new skill sets and machines required to complete the project. Students will learn the proper usage and safety of woodworking equipment. A student fee is required for all projects built.

### WOODS II, III, IV

17007A001

Grades 10, 11, 12

1 Semester

½ Credit

*Prerequisites---Woods I*

The majority of the class is spent constructing individual student wood projects. Projects may include, end tables, stools, and other major construction and woodworking projects. A student fee is required for all projects built.

### WOODS INDEPENDENT STUDY

17007A001

Grades 12

1 Semester

½ Credit

*Prerequisites---Woods IV*

Woods Independent Study is set up to allow the student to further study the finer aspects of woods and woodworking. The student must have a project in mind and approved with the instructor before he/she can sign up for Woods Independent Study. The project must be of a higher complexity. The student will spend about 10% of his/her time researching woods, wood working techniques, designs and any other helpful information. The remainder of the time the student will spend constructing his/her project.

**(Woods Independent Study is not set up as a regular scheduled class. It is to be taken during the hours of Woods II, III, or IV. It is designed to allow the student the opportunity to further his/her wood working skills after they have completed Woods IV)**

### **Engineering Technologies:**

#### COMPUTER AIDED DRAFTING (CAD)

21102A002

Grades 10, 11, 12

1 Semester

½ Credit

*Prerequisite---Illinois Plan for Industrial Education or instructors consent (CAD)*

This course is designed to teach the student the basic fundamentals of drafting while concentrating on its techniques and conventions (rules). CAD inventor software will be used throughout the course. Students will also be introduced to 3D printing

## ROBOTICS AND DESIGN

21053A001

Grades 10, 11, 12

1 Semester

½ Credit

Robotics courses develop and expand a student's skill and knowledge so they can explore and understand the design process and develop robotic devices. Topics covered include mechanics, electrical and motor controls, computer technologies (software engineering), computer basics, and programmable logic controllers.

Foundation Units covered:

*Design and Modeling* - Students apply the design process to solve problems and understand the influence of creativity and history of innovations in their lives. Students learn the differences between criteria and constraints. Students work in teams to design on a reverse engineer project. Using Autodesk design software, students create a virtual image of their designs. Students also learn how to read a Vernier caliper and design an air racer.

*Automation and Robotics*

Students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students build with the use of VEX Robotics along with Robot C software platform to programming. Students design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

## DRAFTING INDEPENDENT STUDY

21106A002

Grade 11, 12

1 Semester

½ Credit

*Prerequisites---*Introduction to Drafting & Drafting and Design (CAD)

Drafting Independent Study is set up to allow the student to further study Drafting and Design. The student must have a drafting project in mind and approved with the instructor before he/she can sign up for Drafting Independent Study. The project must be of a higher complexity. The student will spend about 10% of his/her time researching designing within manufacturing parameters. The remainder of the time the student will spend designing and drafting his/her project.

**(Drafting Independent Study is not set up as a regular scheduled class. It is to be taken during the hours of Introduction to drafting, Drafting and Design, or 3D Production Drafting. It is designed to allow the student the opportunity to further his/her drafting and designing skills after they have completed 3D Production Drafting)**

## WELDING

13207A001

Grades 10, 11, 12

1 Semester

½ Credit

*Prerequisite ---* Illinois Plan for Industrial Education or instructor consent

This course covers the basic methods of fusing or joining metals. The course will cover Oxy-Acetylene, Arc, TIG, MIG, and Spot welding as well as hard soldering (brazing) and soft soldering. Metal cutting by saw, cutting torch, and plasma are also covered. Students will learn how to read basic welding blueprints, weld basic weld-joints, and complete a welding project.

## WELDING INDEPENDENT STUDY

13207A002

Grades 11, 12

1 Semester

½ Credit

*Prerequisites---*Welding

Welding Independent Study is set up to allow the student to further study the finer aspects of metallurgy and welding. The student must have a project in mind and approved with the instructor before he/she can sign up for Welding Independent Study. The project must be of a higher complexity. The student will spend about 25% of his/her time researching metallurgy and welding. The remainder of the time the student will spend constructing his/her project.

**(Welding Independent Study is not set up as a regular scheduled class. It is to be taken during the hours of Welding. It is designed to allow the student the opportunity to further his/her welding skills after he/she has completed Welding.)**

## MATH DEPARTMENT

### ALGEBRA 1

02052A000

Grades 9

1 Year

1 Credit

*Prerequisite*---Placement test and recommendation of teacher

Algebra 1 provides an extensive coverage of basic algebraic skills such as evaluating variable expressions, solving polynomials, simplifying expressions involving exponents, factoring polynomials, and solving a variety of word problems. This course is presented at an accelerated pace, specifically designed to meet minimum college entrance requirements.

### GEOMETRY & HONORS GEOMETRY

02071A000 – Geometry

02072A000 – Honors Geometry

Grades 9, 10, 11, 12

1 Year

1 Credit

*Prerequisite*--- Algebra 1, or concurrent with Algebra 2 with instructors consent.

*Placement in each class will be on teacher recommendation.*

This course covers topics in traditional plane geometry, to include parallel lines, triangles, polygons, circles, area, and volume. Constructions are introduced first semester and are applied continuously throughout the year.

Honors Geometry will also include the introduction and use of formal written proofs that are applied continuously throughout the year.

### ALGEBRA 2

02056A000

Grades 9, 10 (concurrent with Geometry), 11, 12 1 Year

1 Credit

*Prerequisite*---Algebra 1

Algebra 2 provides a review of elementary algebraic operations and introduces square roots, trigonometric ratios, quadratic equations, area, perimeter, volume concepts, vectors, systems of equations, and variations both direct and inverse.

### TRIGONOMETRY

02209A000

Grades 11, 12

1 Semester

½ Credit

*Prerequisite*---Geometry, Algebra 2, and instructor consent

Trigonometry will provide students the skills to apply the unit circle to define the six trigonometric functions in both degree and radian measurement, apply to law of sines and cosines to solve problems, solve trigonometric equations and prove trigonometric identities.

### ALGEBRA 3

02057A000

Grades 11, 12

1 Semester

½ Credit

*Prerequisite* – Geometry, Algebra 2, and instructor consent

This course reviews and extends algebraic concepts for students who have already taken Algebra 2. Course topics include operations with rational and irrational expressions, factoring of rational expressions, linear equations and inequalities, quadratic equations, solving systems of linear and quadratic equations, properties of higher degree equations, operations with rational and irrational exponents, trigonometry, and analytic geometry. The courses may introduce topics in discrete math, elementary probability and statistics; matrices and determinants; and sequences and series.

PRE-CALCULUS

02110A000

*Grades 11, 12*

*1 Year*

*1 Credit*

*Prerequisite---Geometry, Algebra 2, and instructor consent*

Topics covered are: linear relations and functions, matrices, graphing functions, trigonometry, par coordinates, conic sections, probability, statistics, and an introduction to calculus concepts of integrals and limits. Graphing calculators will be used (they can be borrowed from P.H.S.).

AP CALCULUS

02124A000

*Grade 12*

*1 Year*

*1 Credit*

*Prerequisite---Pre-Calculus and instructor consent*

This course introduces the concepts of differentials, limits, integrals, and their applications in addition to a review of trigonometry and analytical geometry. This is an excellent course for college bound math and science students. Students who enroll in this course will take the AP Calculus exam in May. AP Calculus is a weighted course.

## SCIENCE DEPARTMENT

### BIOLOGY

03051A000

Grade 9

1 Year

1 Credit

**\*\* Required Course (may be substituted with Advanced Biology)**

*Placement is based on 8<sup>th</sup> grade science grades, teacher recommendation and MAPs testing*

This course is recommended for students who are interested in life and environmental sciences. This life-oriented course includes the study of:

1. Cells
2. Conservation and Ecology
3. Heredity and Evolution

Course requirements and evaluation include study sheets, laboratory work, projects, and chapter tests.

### ADVANCED BIOLOGY

03052A000

Grade 9

1 Year

1 Credit

**\*\* Required Course (may be substituted with Biology)**

*Placement is based on 8<sup>th</sup> grade science grades, teacher recommendation and MAPs testing*

This course is a more in-depth study of cells and their processes, heredity and evolution, and conservation and ecology. Course requirements include laboratory work, study question sheets, projects, and chapter tests.

### PHYSICAL SCIENCE

03159A000

Grade 10

1 Year

1 Credit

**\*\* Required Course (may be substituted with Chemistry 1)**

*Placement is based on 9<sup>th</sup> grade science grades, and teacher recommendation*

Physical Science serves as an introduction to the fields of chemistry and physics.

Chemistry: Atoms, matter, chemical bonds, chemical reactions, solutions, acids, and bases

Physics: Motion, machines, forces, energy, and waves

Course requirements and evaluations include study sheets, lab work, projects, quizzes, and tests.

### EARTH SCIENCE

03001A000

Grades 10, 11, 12

1 Year

1 Credit

Earth Science is a dynamic course focusing on relevant Earth science subjects and events both current and historic. Specific topics will include, but are not limited to: Geology, Weather, Oceanography, Astronomy and Environmental (Ecology). Students will engage in active research and analysis while sharing their findings, hypothesizes and theories with their peers and instructor.

### ANATOMY AND PHYSIOLOGY

03053A000

Grades 10, 11, 12

1 Year

1 Credit

Prerequisite---Advanced Biology/Biology

This course is a comprehensive study of the structures and functions of the human body. The course begins with a detailed study of human cellular functions. This is followed by a study of tissues, which leads into a thorough study of all body systems, including: skeletal, muscular, endocrine, circulatory, respiratory, digestive, urinary, and reproductive. Course requirements include laboratory work, cat dissection, and chapter tests.

## ZOOLOGY

03061A000

Grades 10, 11, 12

1 Year

1 Credit

Prerequisite---Advanced Biology/Biology

Zoology is the study of animals, beginning with protozoans and continuing with more advanced vertebrate organisms. This course focuses on life cycles, reproduction, diversity, evolution and comparative anatomy. Zoology will involve detailed dissection of invertebrate and vertebrate specimens. Evaluation of student achievement is accomplished through notes, tests, written analysis, observation of lab skills, group work on research topics and case studies.

## CHEMISTRY 1

03101A000

Grades 10, 11, 12

1 Year

1 Credit

Prerequisite---Advanced Biology/Biology with C average and completion of Algebra 1 with C or better.

*Placement also based on teacher recommendation, MAPs testing, and Explore exam results*

This course is recommended for math and science – oriented students as well as college prep students. The course is a detailed study of matter and energy and the changes they undergo. Students will study the classification of matter, chemical reactions, equilibrium, solutions, nuclear chemistry and other selected topics.

## CHEMISTRY 2

03102A000

Grades: 11, 12

1 Year

1 Credit

Prerequisite – Chemistry 1, strong Algebra skills, teacher recommendation

Designed as an upper level Chemistry class that is a continuation of Chemistry one. The topics and skills learned in chemistry one will continue to be used in chemistry two. Additional topics will include: Colligative properties, Acid/Base Chemistry, Reaction Kinetics, Chemical Equilibrium, Oxidation-Reduction Reactions, Organic Chemistry and Nuclear Chemistry. This course is designed for students wanting an additional year of chemistry, but do not feel that they are ready for AP Chemistry.

## AP CHEMISTRY

03106A000

Grade 11, 12

1 Year

2 Credits

Prerequisite---Chemistry 1, Pre-calculus enrollment, minimum grade of C in Chemistry, and instructor consent.

This course is an intensive review of the concepts covered in Chemistry 1. We will also go further in-depth on several additional concepts. Students will prepare for taking the Advanced Placement test to gain college credit for chemistry. Students who enroll in this course will take the AP Chemistry exam in May. AP Chemistry is a weighted course.

## FORENSIC SCIENCE

03999A000

Grades 11, 12

1 Year

1 Credit

Prerequisite--- Chemistry 1 required, Anatomy recommended, or teacher approval

Students will see the integration of the sciences through learning the techniques used in forensic science. Students will investigate various fictitious crime scenes set-up by the teacher. They will collect clues and evidence and then use techniques taught in class to attempt to solve the crime. Students will learn to work together in groups to achieve a goal, and rely on other groups' information to enhance their information. Students will learn to write a comprehensive data sheet for evidence collected to be given to other groups in the class, so that there is a paper-trail for all evidence collected. Discussed topics include: Fingerprinting, Analysis and Identification of hair, tool marks, chemicals, DNA, and soils & minerals, as well as Drugs & Poisons, Toxicology, Forgery, and Serology.

PHYSICS

03151A000

*Grades 11, 12*

*1 Year*

*1 Credit*

*Prerequisite---Geometry, Algebra 2, Chemistry, Preferably Pre-Calculus with a grade of C or higher in each and instructor consent.*

Physics is a physical science concerned with the relationship between matter and energy. The major areas of study are mechanics and heat, waves, electricity and magnetism, and nuclear physics. Students are trained to use the scientific method in making observations, collecting data, and interpreting observed phenomena. Lab work is an integral part of the course.

ILLINOIS ECOLOGY

03999A000

*Grade 12*

*1 Year*

*2 Credits*

*Prerequisite – Teacher Consent*

Hands on / active research course involving frequent visits to a local forest preserve. Students will work closely with the Illinois Department of Natural Resources (IDNR) and the Illinois Conservation Foundation (ICF). Topics of research will include but are not limited to: wildlife management (waterfowl, upland game birds, small and large mammals, song birds, avian predators including bald eagles), fisheries management, endangered species, U.S. and state administration of wildlife and fisheries management, invasive species research and understanding, forestry and related topics and careers in wildlife / forestry / fisheries management. This class will meet daily for 2 class periods.

SOCIAL SCIENCE DEPARTMENT

WORLD GEOGRAPHY

04001A000

Grade 9

1 Year

1 Credit

**\*\*Required Course for the Class of 2019, 2020, 2021**

This yearlong course is designed to cover the physical, political, economic, and cultural elements of the major countries of the world. Students will also study the major continents of the world, develop research and map skills, and be aware of current conditions and problems of the countries around the world.

BIG HISTORY

04051A000

Grade 9

1 Year

1 Credit

**\*\*Required Course for the Class of 2022 and beyond**

Where did everything come from? How did we get where we are now? Where do humans fit in? Where are things heading? These are questions that origin stories of different cultures have addressed for thousands of years. Big History attempts to answer them by examining the entire past of the Universe using the best available ideas from disciplines such as astronomy, chemistry, biology, and history.

Throughout the course, you'll explore different scales of time and space and view human history from new angles. You'll learn what we know and what we don't, consider our place in the Universe, and develop your own ideas for what the future may hold.

AMERICAN HISTORY

04101A000

Grade 10

1 Year

1 Credit

**\*\* Required Course (may be substituted with American History (Honors))**

This course begins with World War I and will consist of units of study up to modern America. Areas of concentration will be focused on World War I, the Roaring Twenties, the Great Depression, World War II, the Cold War, the Korean War, Civil Rights, the Vietnam War, and recent United States events.

Approximately four weeks will be dedicated to each unit of instruction. Students will be introduced to information about events that have shaped America's history throughout the past century, from a beginning nation to a modern industrialized world power.

AMERICAN HISTORY (HONORS)

04101A000

Grade 10

1 Year

1 Credit

**\*\* Required Course (may be substituted with American History)**

This course focuses on the development of disciplinary practices and reasoning skills and an understanding of content organized around multiple themes. These include American identity, America in the world, culture and society, and politics and power. This course will be a survey of multiple time periods throughout American history, with an emphasis starting at World War I and moving through modern times.

ANTHROPOLOGY

04251A000

Grade 10, 11, 12

1 Semester

½ Credit

This course will introduce students to the study of human evolution with regard to the origin, distribution, physical attributes, environment, and culture of human beings. This course will provide an overview of anthropology, including but not limited to both physical and cultural anthropology.

### HUMAN RELATIONS

04255A000

Grade 10, 11, 12

1 Semester

½ Credit

Human Relations is a personal approach to the field of psychology, stressing human development. Topics will include, but not be limited to: the years before marriage; the relationships with parents, brothers and sisters; male and female roles; dating, mate selection and engagement; problems of young married couples; crises in the family; and parenthood.

### CURRENT EVENTS

04064A000

Grades: 10, 11, 12

1 Year

1 Credit

This course will cover current news-related issues and will be a project-oriented class geared toward meeting Common Core standards. Students will complete 5-6 projects each semester researching current news, economic, political, social and cultural issues on the local, national, and world level. The course will emphasize higher level research and learning based on the six levels of Bloom's Taxonomy. It is designed to be student-oriented and hands-on. Current Events is a repeatable course.

### PSYCHOLOGY

04254A000

Grades 11, 12

1 Semester

½ Credit

The purpose of this course is to allow students to gain insight into the overall study of psychology and its applications. Topics include psychological methods and measurement, human development and motivation, and theories of personality, learning, intelligence, and creativity.

### SOCIOLOGY

04258A000

Grades 11, 12

1 Semester

½ Credit

The purpose of this course is to allow students to gain insight into the overall study of sociology. Students will be able to achieve an understanding of the negative and positive factors influencing society and how these change from one time period and culture to another. The individual's role in society as well as inequalities will be examined. Institutions of society such as family, education, science, and sport will be explored.

### CRIMINAL LAW

04165A000

Grades 11, 12

1 Year

1 Credit

This course will survey our legal and criminal justice system. It will provide practical information and problem solving opportunities in the area of criminal law. The course will develop the knowledge and skills needed to survive in this "law-saturated" society, along with a willingness and capability to participate effectively in the legal and political systems of our community, state, and country. First semester will focus on criminal law, second semester will focus on civil law.

### AMERICAN GOVERNMENT/CIVICS

04151A000

Grade 12

1 Semester

½ Credit

**\*\*Required Course (may be substituted with A.P. US Government & Politics)**

American Government is a study of American political institutions and processes from the basic structure of our national government to the political processes of actual government. This course is designed to engage students in the process of civics, or understanding both the rights and responsibilities of citizens. Students will be expected to evaluate multiple perspectives and defend a stance using resources. Particular emphasis will be placed on the study of state and local government as it relates to each citizen's everyday affairs. Students will engage in the service learning project and take the Constitution Test which are both required for graduation.

ECONOMICS

04201A000

Grade 12

1 Semester

½ Credit

**\*\*Required Course**

This course is a comprehensive study of the basic concepts, principles and practices of economics. The design of the class is to help students gain a greater understanding of economics and its importance within daily life. The textbook is designed to give the student a basic understanding of key topics and concepts of economics; the lectures, class assignments, homework, activities, and evaluations will further enhance the student's understanding and ability to demonstrate their knowledge.

Students will also complete their Senior Portfolio Project in this class as required for graduation. Developing goals, resumes, interviewing and other skills needed to be successful in the workplace will be discussed. Students will develop portfolios pertaining to their career interest with examples of work taken from different academic and career classes as well as involvement of activities outside of school. Students will also complete an exit interview with a team of faculty to present their portfolio and practice the skills learned in class. Successful completion of these two projects (the portfolio and the interview) are required in order to graduate.

A.P. US GOVERNMENT AND POLITICS

04157A000

Grades 11, 12

1 Year

1 Credit

*Prerequisite – Teacher Consent*

**\*\*Required Course (may be substituted with American Government/Civics)**

This course will prepare the student to successfully complete the Advanced Placement exam (given in May). It will give students an analytical and historical perspective on the American political process and engage students in the process of civics. This course meets the federal and state constitution requirements for graduation. Course activities include reading periodicals, daily newspapers, a college textbook, and supplemental readings. Students will be required to integrate information obtained from readings, class discussions, and lectures to answer detailed multiple choice questions as well as write analytical and argumentative essays in preparation for the AP exam. Students who take this course should be highly motivated, hard-working, and interested in a challenging and engaging learning experience. This course will count towards the required American Government graduation requirement. This is a writing intensive course. Students will also engage in the service learning project and take the Constitution Test which are both required for graduation. AP US Government and Politics is a weighted course.



## COURSE OFFERINGS 2018 - 2019

Updated Nov. 30, 2017

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 9-12<sup>th</sup> graders.

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

- Health Occupations (HOYA)
- Careers in Business (CIB)
- Computer Information Systems (CIS)
- Cosmetology I
- Culinary Occupations I

Students obtain program applications and 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.

Students must be registered by **April 1st** to be a guaranteed student, however applications will be accepted beyond April 1<sup>st</sup> if seats are available, with instructor approval if applicable.

Highland Community College in conjunction with CAREERTEC 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 listed below and in descriptions. Start dates can be found at [www.careertec-il.org](http://www.careertec-il.org).**

- Classes held at FHS, St. John & Construction Site follow the **CAREERTEC calendar**.
  - Careers in Auto Technology (CATS)
  - Careers in Business (CIB)
  - Computer Information Systems (CIS)
  - Construction Trades
  - Culinary Occupations
  - Early Childhood Education (ECE)
  - Graphic Design
  - Health Occupations (HOYA)
  - NJROTC
- Classes held at Highland Community College (HCC), taught by HCC staff, follow the **HCC Calendar**.
  - Auto Body Repair
  - Auto Mechanics HCC
  - Cosmetology
  - Criminal Justice
  - 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, **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 to 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 require book purchase by the student



### **AUTO BODY REPAIR I (20116A001)**

Level:	11 <sup>th</sup> and 12 <sup>th</sup> grade
Class Location:	Highland Community College, Freeport
Time:	7:30 – 9:00 a.m., Mon. - Thurs.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport 4 credits per year)
Post Sec Credit	Highland Community College – Dual Credit ** 3 credits
HCC Fees:	\$335 (tool kit rental \$160, \$85 course fee, \$75 tech and activity fee, \$15 registration fee Fall semester, <u>to be paid by student/parent at HCC</u> )
Textbook Fees:	\$321
Calendar:	This course follows the HCC calendar



It's easy to get a dent or scrape – learn how to fix them! The Auto Body I Program uses a competency-based method of developing skills for entry into the auto body service trades. First year students will learn safe shop practices, sanding, sand blasting, light body repair, use of plastic fillers, and installation of bolted, welded or glued-on panels, paint preparation, priming and refinishing. This class covers the content in AUTB 191, Introduction to Auto Body, and is a preparation class for continuing in Auto Body Repair II, earning dual credit toward an A.A.S. degree or certificate. 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.

### **AUTO BODY REPAIR II (20116A002)**

Level:	12 <sup>th</sup> grade
Class Location:	Highland Community College, Freeport
Time:	7:30 – 9:00 a.m., Mon. - Thurs.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport 4 credits per year)
Post Sec Credit:	Highland Community College – Dual Credit ** 3 credits
Prerequisite:	Certification is based upon successful completion of required testing and additional courses
HCC Fees:	Successful completion of Auto Body I with a C or above and 95% attendance \$295 (tool kit rental \$125, \$85 course fee, \$75 tech & activity fee, \$15 registration fee Fall semester, <u>to be paid at HCC</u> Tool kit, respirator and safety glasses from Year I is acceptable
Textbook Fees:	Use book from Year 1
Calendar:	This course follows the HCC calendar



Auto Body Repair II second year students continue using skills learned in first year to do more advanced metal straightening, body alignments, welding and fabrication. The content of AUTB 194, Auto Body Repair I, is covered in detail. Paint preparation, sanding, and refinishing are taken to a higher level to enhance skills necessary for entry into the Auto Body Repair Trades profession. Students will earn Highland Community College credits toward an Associate of Applied Science degree.

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 AUTO TECHNOLOGY & SERVICE I (CATS) (20104A001)**

Level:	11 <sup>th</sup> and 12 <sup>th</sup> grade
Class location:	Freeport High School, Freeport
Length:	One year, double period
Time:	7:30 - 9:00 a.m. & 1:00 p.m. - 2:30 p.m., Mon. - Fri.
H.S. Credit:	Two credits per year (Freeport 4 credits per year)
Prerequisite:	9 <sup>th</sup> grade reading comprehension level, 8 <sup>th</sup> 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, to be <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 work book 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 <sup>th</sup> grade
Class location:	Freeport High School, Freeport
Length:	One year, double period
Time:	7:30 - 9:00 a.m. & 1:00 – 2:30 p.m., Mon. - Fri.
H.S. Credit:	Two credits per year (Freeport 4 credits per year)
Post Sec. Credit:	Highland Community College - Dual Credit **2 credits
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 issue of eye protection), to be <u>to be paid by student/parent at High School</u> during registration
HCC Fees:	\$15 registration fee Spring semester, <u>to be paid by student/parent at HCC</u>
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 lab.



This course is for students in 12<sup>th</sup> 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. Work place 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%. Dual credit at HCC: AUTM 138 Automotive Servicing.

## CAREERS IN BUSINESS

Are you interested in starting your own business? Would you like to learn about saving and investing in the Stock Market as well as about the many occupations in the finance industry? Does understanding the supply chain and inventory control intrigue you? The Careers in Business program introduces a variety of modern business applications to students and provides a great opportunity to explore a variety of occupations in the business career clusters.

Careers In Business (CIB) is a two-year program that offers 12 dual credits during the first year and an internship the second year. Students will be introduced to different skills, tasks, and accomplishments each year according to the description below.

### CAREERS IN BUSINESS (CIB) (12053A001) year 1

Level:	11 <sup>th</sup> and 12 <sup>th</sup> grade
Class Location:	St. John Church, Freeport
Time:	7:30 - 9:00 a.m. & 1:00 - 2:30 p.m.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport, 4 credits per year)
Post Sec Credit:	Highland Community College - Dual Credit 12 credits
Prerequisites:	Business/computer orientation class if offered, meeting with instructor, minimum GPA and good attendance are required for acceptance into this program
CAREERTEC Fees:	\$25 lab fees. 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>
Textbook fees:	<\$100
Calendar:	This course follows the CAREERTEC calendar



Careers in Business introduces numerous aspects of personal finance as well as the importance of saving money, investing wisely, and using credit appropriately. Students will have the opportunity to earn the WISE national Financial Literacy Certification. Students will gain valuable real-world knowledge through classwork as well as playing a virtual Stock Market Game, a national competition. Students will understand the elements of supply chain management, the importance of customer relationships and learn about inventory management, risk and sustainability of a business. Students will incorporate problem-solving strategies, connect their learning to the global community, and increase their respect for our multicultural society. Emphasis is placed on being able to communicate and manage effectively in a constantly changing business environment. This course will provide a foundational understanding for making informed personal financial decisions leading to financial independence. Dual credits at HCC: INFT131, INFT135, INFT140, BUSN125, BUSN 141 and SPTP150.

The curriculum includes:

Dual-credit

Business Classes: Business Communications, Math of Business, Supply Chain Management, Microsoft Excel, Word and PowerPoint.

Business Topics: Supply Chain Management, Personal Finance, Investing, the Stock Market Game

Employability Skills: Presentation Skills, Time Management, Problem Solving, Interviewing and Resume skills

Career Development: Real-world learning of economics and finance through virtual investing, Career and College Exploration, Guest Speakers, Field Trips

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 <sup>th</sup> grade
Class Location:	Internship sites
Time:	varies dependent on internship agreement
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport, 4 credits per year)
Post Sec Credit:	Highland Community College - Dual Credit 1-4 credits
Prerequisites:	CIB year 1
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

Students who enter as a junior can continue the program for a second year, participating in an internship their senior year, pending successful completion of year 1.

- **Internship Details** – Students intern at a local business working with professionals gaining valuable experience outside the classroom setting. Transportation is the responsibility of the intern as is eight (8) hours of work per week. All accepted students will attend a mandatory orientation meeting prior to the start of classes.

## **COMPUTER INFORMATION SYSTEMS I (CIS) (10102A001)**

Level:	11 <sup>th</sup> and 12 <sup>th</sup> 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:	Two credits per year (Freeport, 4 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:	\$25, to be <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:	\$180-\$220
	Student is responsible for any certification testing fees.
Calendar:	This course follows the CAREERTEC calendar



If you're totally into the inner workings of computers, then this course could be your "C" drive to a computer technology career. This is recommended for students who enjoy the technical side of computers. Course provides hardware operation and techniques of hardware systems analysis, troubleshooting, and repair. 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 <sup>th</sup> grade
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
Prerequisite:	Successful completion of CIS I course and Instructor approval
H.S. Credit:	Two credits per year (Freeport, 4 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:	\$25, to be <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:	\$250-\$352
Optional Fees:	Student is responsible for any certification 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 in Coding, Networking +, 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. Four systems programming language will be studied: shell scripts, Perl, Powershell and SQL, 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: 11<sup>th</sup> and 12<sup>th</sup> grade  
Class Location: Freeport Senior High / Construction Site  
Time: 7:30 - 9:00 a.m., Mon. - Fri.  
Length: One year, double period  
H.S. Credit: Two credits per year (Freeport, 4 credits per year)  
Post Sec Credit: Highland Community College - Dual Credit\*\* approximately 1 credit  
Prerequisite: Knowledge of fractions and decimals  
Calendar: This course follows the CAREERTEC calendar



Learn to build and/or remodel a house! Construction Trades Youth Apprenticeship Year I provide introductory on-site construction skills to students interested in the building industry, from laborer to architect. Students construct a family housing unit from foundation to roof, or smaller units demonstrating the same building techniques, after receiving safety and construction instruction in a classroom site. 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. Opportunity to earn OSHA 10-hour certification and OCED 117.

### **CONSTRUCTION TRADES II (17002A002)**

Level: 12<sup>th</sup> grade  
Class Location: Freeport Senior High / Construction Site  
Time (option 2): 7:30 - 9:00 a.m., Mon. - Fri.  
Length: One year, double period  
H.S. Credit: Two credits per year (Freeport, 4 credits per year)  
Prerequisite: Successful completion of CTYA I with a C or above and 95% attendance  
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.

### **COSMETOLOGY I (COSMO I) (19101A001)**

Level:	11 <sup>th</sup> and 12 <sup>th</sup> grade
Class Location:	Highland Community College, Freeport
Time:	7:30 – 9:00 a.m., Mon. - Fri.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport 4 credits per year)
HCC Credit:	Highland Community College - Dual Credit** 6 credits
Prerequisite:	8 <sup>th</sup> grade reading level and meeting with instructor required for acceptance into this program.
HCC Fees:	\$660 (\$80 uniform and shoes, \$30 uniform smock, \$250 basic student kit and \$120 course fee, \$150 tech & activity fees, \$30 registration fee per school year) <u>to be paid by student/parent at HCC.</u>
Textbook Fees:	Approximately \$300 textbook bundle and study guide
Calendar:	This class follows the HCC calendar

Do you want to know more about beauty than applying makeup and creating the latest hairstyle? Are you interested in learning the theory behind cosmetology and earning State Certification? Cosmetology I affords the student the opportunity to learn the rigorous implementation of academic theory applicable to cosmetology through classroom instruction. The student will also participate in practical application in the areas of manicuring, hair styling, conditioning procedures, sanitary rules, regulations, and salesmanship/salon management as they relate to the Barber Cosmetology Esthetics and Nail Technology Act of 1985. Of the 1500 hours needed for certification and licensing required by the Department of Financial Professional Regulations, students may complete 300 hours the first year and 400 hours the second year. Students will be expected to furnish the materials listed in the fees section above. Students will accumulate hours and knowledge required to pass the State Certification and Licensing Exam. Course content covers COSM 121 and COSM 122.

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 <sup>th</sup> grade
Class Location:	Highland Community College, Freeport
Time:	1:00 - 2:30 p.m., Mon. - Fri.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport 4 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:	\$300 (\$120 course fee, \$150 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

Cosmetology II is a continuation of working toward certification and establishing the hours needed for licensing. Students will have the opportunity to apply their mastery with hands-on services on clients on the Cosmetology clinic floor. Course content covers COSM123 and COSM 124. Students will need to use the uniform items, kit, and textbooks from the first year if in acceptable condition.

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

### **CRIMINAL JUSTICE (04165A001 & 15051A003)**

Level:	11 <sup>th</sup> & 12 <sup>th</sup> grade
Class Location:	Highland Community College, Freeport
Time:	7:30 - 9:00 a.m., Mon. - Thurs.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport 4 credits per year)
Post Sec Credit:	Highland Community College - Dual Credit** 12 credits
HCC Fees:	\$306 tech & activity fees, \$30 registration fee per school year, <u>to be paid by student/parent at HCC.</u>
Textbook fees:	\$500-\$725
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. Dual Credit at HCC: CJS 101, CJS 102, CJS 202 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 (04162A001)**

Level:	12 <sup>th</sup> grade
Class Location:	Highland Community College, Freeport
Time:	1-2:30 p.m. Mon. & Wed. Some courses may be offered online.
Length:	One year, double period
H.S. Credit:	2 Credits per year (Freeport 4 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:	\$133-\$190 tech & activity fees, \$2 course fee, \$30 registration fee per school year, <u>to be paid 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. Second semester students will be introduced to the phenomena of contemporary terrorism and extremism. Emphasis will be placed on extremism as a foundation for terrorist behavior, types of terrorism, and strategies for governments and law enforcement agencies to respond to terrorism. In light of domestic terrorist incidents in the United States and domestic hate crimes, this course will also analyze extremist and terrorist group usage of the media and literature as their influential tools. The second 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. 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, 203, 208, PHYD 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 OCCUPATIONS I (16052A001)**

Level:	11 <sup>th</sup> and 12 <sup>th</sup> grade
Class Location:	St. John Church or Pretzel City Kitchen, Freeport
Time:	7:30 - 9:00 a.m., 9:45 - 11:15 a.m., & 1:00 - 2:30 p.m., Mon. - Fri.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport, four credits per year)
Post Sec Credit:	Highland Community College - Dual Credit** 1 credit
Prerequisite:	Nutrition and Culinary Arts I or Instructor Approval, if class not offered, meeting with instructor required for acceptance into this program.
CAREERTEC Fees:	\$70 (\$25 lab fees, \$20 text book rental, \$25 chef jacket) To be <u>paid by student/parent at High School</u> during registration
Optional Fees:	FSSMC registration, \$35 to IDPH upon passing exam.
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 Occupations I teaches practical culinary knowledge and skills, including basic 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 lab activities. 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 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 OCCUPATIONS II (16055A001)**

Level:	12 <sup>th</sup> grade
Class Location:	Internship sites
Time:	varies dependent on internship agreement
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport, 4 credits per year)
Post Sec Credit:	Highland Community College - Dual Credit** 1-3 credits
Prerequisite:	Successful completion of Culinary Occupation I with a C or better, 95% attendance and instructor approval.
Optional HCC Fees:	\$15 registration fee Spring semester, to be paid by student/parent at HCC
Calendar:	This course follows the CAREERTEC calendar



Culinary Occupations II is an internship based program designed to prepare students for an occupation in the food service industry. 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 (ECE I) (19153A001)**

Level:	11 <sup>th</sup> and 12 <sup>th</sup> grade
Class Location:	Freeport High School, Freeport & local school site
Time:	1:00 - 2:30 p.m. Mon. - Fri.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport, 4 credits per year)
Prerequisite:	Child Growth and Development, parent approval
CAREERTEC Fees:	\$15 course fee, to be <u>to be paid by student/parent at High School</u> during registration
Calendar:	This course follows the CAREERTEC calendar



Always wanted to be an elementary teacher? Consider this course! Early Childhood Education provides exploration for students interested in careers working with young children as teachers, child care providers, psychologists, social service workers, and speech pathologists. Experiences include working with children in an elementary classroom four days per week. Activities include observation, teaching sight words, planning learning centers, helping with math and reading, grading of papers, discipline of students, putting up bulletin boards, and other general teaching preparation. Remaining days per week are in class at FHS, topics include child development, health and nutrition, safety issues, family relationships, and personal development. The first two - three weeks of first semester students are in the classroom at Freeport High School. Upon completion, students can earn the Early Childhood Education Level 1 Credential, which means students will have the skills and knowledge necessary to work or continue their studies in the early childhood field and have access to Gateways to Opportunity scholarships. Home schools or student to provide transportation to and from elementary sites and FHS.

### **EARLY CHILDHOOD EDUCATION II (ECE II) (19153A001)**

Level:	12 <sup>th</sup> grade
Class Location:	Freeport High School, Freeport, & internship sites
Time:	1:00 - 2:30 p.m., varied days
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport, 4 credits per year)
Post Sec. Credit:	Highland Community College-Dual credit **2 credits
Prerequisite:	Completion of Early Childhood Education I with C or better and 95% attendance and instructor approval
HCC Fees:	\$15 registration fee Spring semester, <u>to be paid by student/parent at HCC</u>
Calendar:	This course follows the CAREERTEC calendar



Early Childhood Education II students work as teacher's aides in the community at their choice of sites, which include elementary schools, kindergartens, preschools, or daycare centers. Students have "on the job experience" at the site. Classroom learning includes child guidance and safety techniques, teaching methods, communication with parents, conferences with parents, student observation, student assessment, child abuse, multi-cultural activities and planning activities to teach at the job site. Careers and the job application process are studied  
Dual credits at HCC: ECE 128, Early Childhood Practicum II.

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 <sup>th</sup> grade
Class Location:	Freeport High School, Freeport
Time:	7:30 - 9:00 a.m. and 1:00 - 2:30 p.m., Mon. - Fri.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport, 4 credits per year)
Prerequisite:	Knowledge of the fundamentals of design
CAREERTEC Fees:	\$30 lab fee, to be <u>to be paid by student/parent at High School</u> during registration
Calendar:	This course follows the CAREERTEC calendar



Discover the world of commercial design applications and the kaleidoscope of career opportunities! The core of Graphic Design I focus on real world applications of graphic design (2D) and/or product design (3D) techniques and processes. The objective of the course is to apply knowledge and skills of the design fundamentals (e.g. typography, shape description, color and drawing etc) and computer systems to create authentic problem solving based on specific project themes. Project themes may include the development of travel/corporate brochures, CD covers, posters, corporate identity, package design, product design and display systems. The course curriculum will include computer system application, design theory and practice and knowledge of material processes and production techniques for both graphic design and product design. Emphasis of this course will be placed on presentation techniques, portfolio development, and professional/social employability skills necessary to succeed in these career fields.

### **GRAPHIC DESIGN II (GD II) (11155A002)**

Level:	12 <sup>th</sup> grade
Class Location:	Freeport High School
Time:	7:30 - 9:00 a.m. and 1:00 - 2:30 p.m. (preferably mornings), Mon. - Fri.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport, 4 credits per year)
Prerequisite:	Completion of Graphic Design I with C or better and interview with Instructor
CAREERTEC Fees:	\$30 lab fee, to be <u>to be paid by student/parent at High School</u> during registration
Calendar:	This course follows the CAREERTEC calendar



The second year continues on from the first year experiences to engage students in more complex graphic design projects. Students will gain more experience in real world applications of both: graphic design (2D) and/or product design (3D) techniques and processes. The objective of the course is to apply and further develop the knowledge and skills learned from the first year class in the design fundamentals (e.g. typography, shape description, color, and drawing etc.) and computer systems to create authentic problem solving based on specific project themes. Project themes may include the development of travel/corporate brochures, CD covers, posters, corporate identity, package & product design, and display systems. The course curriculum will include computer system application, design theory and practice and knowledge of material processes and production techniques for both graphic design and product design. Emphasis will be placed on presentation techniques, portfolio development, and professional/social employability skills necessary to succeed in these career fields.

### **HCC DUAL CREDIT AUTO MECHANICS I (20104A001)**

Level:	11 <sup>th</sup> and 12 <sup>th</sup> grade
Class Location:	Highland Community College
Time:	12:30 - 5:30 p.m., Mon. - Thurs.
Length:	One year
H.S. Credit:	Two credits per year (Freeport 6 credits per year)
Post Sec. Credit:	Highland Community College - Dual Credit** 25 credits
Tuition:	Approximate out of pocket tuition cost to student \$2225.
HCC Fees:	\$385 course fee, \$625 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. \$1000 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. Dual Credit 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 in the areas of: Vehicle service and inspections, brakes, manual transmissions, and drive lines, basic electrical (batteries, starters, alternators) suspension & alignments, and engine repair. **Students are responsible for any tuition and fees beyond \$650 per semester.** Students are also responsible for purchase of required textbooks (approx. \$190) and tools. Students will earn Highland Community College credits toward an Associate of Applied Science degree. This is a NATEF 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 DUAL CREDIT AUTO MECHANICS II (20104A002)**

Level:	12 <sup>th</sup> grade
Class Location:	Highland Community College
Time:	7:30 - 12:15 p.m., Mon. - Thurs.
Length:	One year
H.S. Credit:	Two credits per year (Freeport 6 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 \$3157.
HCC Fees:	\$440 course fees, \$675 tech & activity fees, \$30 registration fee per school year, students may purchase tools through a rent to own program at HCC at a cost of \$1000 per school year.
Textbook Fees:	Same textbook as Yr. 1, continuation of payments on tool set purchased through HCC to be paid at HCC
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 \$650 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 a NATEF 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 <sup>th</sup> and 12 <sup>th</sup> grades
Class Location:	St. John Church, Freeport
Time:	7:30 - 9:00 a.m., 9:45 - 11:15 a.m., & 1:00 - 2:30 p.m., Mon. - Fri.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport, 4 credits per year)
Post Sec Credit:	Highland Community College – Dual Credit** (Eight credits for students successfully completing the C.N.A. theory and clinical training)
Prerequisite:	Keyboarding Skills, inoculation documentation, and meeting with instructor required for acceptance into this program, satisfactory completion of Algebra 1 and have at least an 8 <sup>th</sup> grade reading ability
CAREERTEC Fees:	\$160 (\$49 drug screen, \$25 workbook, \$20 Textbook rental, \$30 background check, \$6 fee, CPR \$30) to be <u>to be paid by student/parent at High School</u> during registration
HCC Fees:	\$15 registration fee for Spring semester, <u>to be paid by student/parent at HCC</u>
Optional Fees:	\$95 CNA Training (\$67 state testing fee & \$28 scrub uniform) <u>to be paid to CAREERTEC office prior to August orientation.</u>
Calendar:	Students may purchase their textbook for replacement cost This course follows the CAREERTEC calendar.

Health care 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 and proof of Hepatitis B vaccination. To participate in the CNA training students will need 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 with successful background check. 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 License exam in June to be given at Highland Community College.

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 91.

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) (14002A003 & 14154A001)**

Level:	12 <sup>th</sup> grade
Class Location:	Internship site & St. John Church every Wed., 1:00-2:30 p.m.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport, 4 credits per year)
Post Sec Credit:	Highland Community College - Dual credit** - 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:	\$56 (\$20 textbook rental, \$36 workbook), to be <u>to be paid by student/parent at High School</u> during registration
HCC Fees:	\$15 registration fee for Spring semester, <u>to be paid by student/parent at HCC</u>
Optional Fees:	\$10 for lab coat if required at work site; \$49 drug test paid to testing facility by student if required for on-site work placement.
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 interview and work on-site with a professional for an average of eight hours per week to total 144 hours per semester. Additional time is spent on academics that enable the student to pursue a post-secondary degree or certification in the healthcare field. Students will meet every Wednesday in the classroom from 1-2:30 for the academic instruction. Students will need the one step TB test before class begins. \*TB test can be done at Health Department for a fee. Appointments should be made. Students study Medical Terminology and upon successful completion of the exam will earn college credits through HCC: ITHC 101, 102, 103. Students must provide their transportation to and from classroom and the work site.

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 (13207A001 & 13207A002)**

Level:	11 <sup>th</sup> & 12 <sup>th</sup> grade
Class Location:	Highland Community College
Time:	7:30 - 9:00 a.m., Mon. - Thurs.
Length:	One year, double period
H.S. Credit:	Two credits per year (Freeport 4 credits per year)
Post Sec. Credit:	Highland Community College Dual Credit** 12 credits
HCC Fees:	\$785 (\$295 course fees, \$300 tech/activity fees, and \$30 registration fees per school year. Students must also purchase tools at a cost of \$160, <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 and/or CNC machining. These skills will be developed in the areas of Shielded Metal Arc Welding, Metal Inert Gas Welding, Computer Aided Drafting (CAD), and CNC machining as it applies to industrial technology, welding, mechanics, and machine processes. 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, pressure, or both to meld 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 and interpret CAD drawings used in technical and mechanical fields. Finally, students will learn the basics of CNC machining such as machining processes, tooling, and CNC programming. \*\*Students successfully completing this course will have the opportunity with additional coursework at HCC to earn a Welding and Fabrication Certificate or Basic Welding Certificate, Industrial Training degree, Machine Processes Certificate, CNC Machinist Certificate, or Industrial Manufacturing AAS Degree. Dual credit at HCC: MTEC151, WELD 130, WELD 232, DRAF105. 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):**

Level:	12 <sup>th</sup> grade
Class Location:	Work Site
Time:	8 hours per week
H.S. Credit:	Two credits per year (Freeport 4 credits per year)
Post Sec. Credit:	Highland Community College Dual Credit** 1-4 credits
Prerequisite:	Successful Completion of IT I.
HCC Fees:	\$30 registration fee per school year, course and activities vary depending on options below
Textbook fees:	Depends on option chosen below
Calendar:	This course follows the HCC calendar

There are 3 different avenues 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 high school. Courses would include CNC Mill and CNC Lathe as well as other Technical Electives for the alternating days.

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 CNC Machining or other types of manufacturing.

Option 3: A combination of options 1 and 2

## **NAVY JUNIOR RESERVE OFFICER TRAINING CORPS (NJROTC) (09101A000)**

Level: 9-12 grades  
Class Location: Freeport High School  
Time: 7:30 - 9:00 a.m., Mon. - Fri.  
Length: One Year  
H.S. Credit: One-two credits per year (Freeport, 2 - 4 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 development program that explores Naval Science and leadership. The subjects include oceanography, meteorology, astronomy, basic electronics, communications, naval engineering, navigation, physical fitness, uniform preparation, and inspections. Naval Science is taught by retired Navy and Marine Corps personnel. The course provides classroom experiences that emphasize patriotism; development of informed and responsible citizens; promotes habits of orderliness and precision; develops a high degree of personal honor, self-reliance, individual discipline; and leadership development. Any student considering joining any of the United States Armed Services should consider enrolling in this course. Cadet experiences are enriched through participation in any one of six extra-curricular teams (precision drill team, air rifle marksmanship team, orienteering team, athletic 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, text books, 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.

### **CAREERTEC**

#### **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, age, gender, or disability in any of its educational programs or in the provision of services to the student.*