

SANDWICH HIGH SCHOOL
2023- 2024
COURSE SELECTION
BOOKLET



Updated:12/13/2022

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Sandwich High School 4-Year Plan

| <u>Freshman Year</u> | <u>Credit</u> |
|--|---------------|
| English I / Honors English I | 1 |
| Algebra I/Honors Geo/Acc. Algebra I | 1 |
| Phys. Science/Biology I/Honors Biology I | 1 |
| Physical Education | 1 |
| Foreign Language/Fine Arts | 1 |
| Social Studies | .5 |
| Social Studies | .5 |
| Elective/Study Hall | .5 |
| Elective/Study Hall | .5 |

| <u>Sophomore Year</u> | <u>Credit</u> |
|---------------------------------|---------------|
| English II/Honors English II | 1 |
| Geo/Honor Geo/Honors Algebra II | 1 |
| Biology I/Chemistry I | 1 |
| Health | .5 |
| Driver Education | .5 |
| Foreign Language/Fine Arts | 1 |
| Social Studies | .5 |
| Speech/ Acc. Speech | .5 |
| Elective/Study Hall | .5 |
| Elective/Study Hall | .5 |

| <u>Junior Year</u> | <u>Credit</u> |
|---------------------------------------|---------------|
| English III/AP Lang/Comp | 1 |
| American History/AP US History | 1 |
| Algebra II/Trig/Pre-Calculus (Honors) | 1 |
| Physical Education | 1 |
| Chemistry I/Anatomy & Phy/Chem II | 1 |
| Social Studies | .5 |
| Social Studies | .5 |
| Elective/Study Hall | .5 |
| Elective/Study Hall | .5 |

| <u>Senior Year</u> | <u>Credit</u> |
|--|---------------|
| English IV/AP Lit/Comp | 1 |
| Consumer Education/AP Micro | .5 |
| Government/ AP US Gov. | .5 |
| Trig/Pre-Calc(Honors)/Calculus (AP) | 1 |
| Anatomy and Physiology/Chem II/Physics | 1 |
| Physical Education | .5 |
| Elective | .5 |
| Elective | .5 |
| Elective/Study Hall | .5 |
| Elective/Study Hall | .5 |

*23 Credits are required for graduation.

*3 semesters of elective classes MUST be Social Studies courses including Government.

*2 semesters of elective classes MUST be humanities or vocational education.

*Students should total between 6 and 7 credits each year.

DIRECTIONS:

List the courses you plan to take next year on a separate sheet of paper (check next page for requirements) or use the 4-year plan on page 1 and determine your total credit count.

All students must carry a minimum load of 6 credits per year. Students enrolled in IVVC must take four additional classes at SHS.

FRESHMEN

| | |
|-------------------------|-----------------|
| Science (2 Semesters) | 1 Credit |
| Math (2 Semesters) | 1 Credit |
| English (2 Semesters) | 1 Credit |
| Electives (4 Semesters) | 2 Credits |
| Phys. Ed. (2 Semesters) | <u>1 Credit</u> |
| | 6 Credits |

SOPHOMORES

| | |
|-------------------------|------------------|
| Driver Ed. (1 Semester) | 1/2 Credit |
| Health (1 Semester) | 1/2 Credit |
| English (2 Semesters) | 1 Credit |
| Speech (1 Semester) | 1/2 Credit |
| Math (2 Semesters) | 1 Credit |
| Science (2 Semesters) | 1 Credit |
| Electives (4 Semesters) | <u>2 Credits</u> |
| | 6 1/2 Credits |

JUNIORS

| | |
|---------------------------|-----------------|
| Am. History (2 Semesters) | 1 Credit |
| English (2 Semesters) | 1 Credit |
| Electives (4 Semesters) | 2 Credits |
| Phys. Ed. (2 Semesters) | 1 Credit |
| Math (2 Semesters) | <u>1 Credit</u> |
| | 6 Credits |

SENIORS

| | |
|---------------------------|-------------------|
| English (2 Semesters) | 1 Credit |
| Consumer Ed. (1 Semester) | 1/2 Credit |
| Electives (7 Semesters) | 3 1/2 Credits |
| Phys. Ed. (2 Semesters) | 1 Credit |
| Government (1 Semester) | <u>1/2 Credit</u> |
| | 6 1/2 Credits |

GRADUATION REQUIREMENTS

Graduates from Sandwich Community High School will have earned a minimum of 23 credits upon completion of their course work.

All students must carry a minimum load of 6 credits per year. Credits are earned by passing semester classes with a grade of A, B, C, or D.

The following items must be incorporated into the credit requirements for graduation:

1. Four years of English (4 Credits) - Including one semester of Speech (1/2 credit).
2. Two years of Science (2 Credits) - Must include one life and one physical science
3. Three years of Math (3 Credits)
4. Two in a half years of Social Studies (2 1/2 Credits) (Must include one credit in American History and 1/2 credit in Government)
5. Three plus years of Physical Education (3+ Credits)
6. One semester of Health Education (1/2 Credit)
7. One semester of Consumer Education (1/2 Credit)
8. One semester of Driver Education (1/2 Credit)
9. One year chosen from:
 - a. Music
 - b. Art
 - c. Foreign Language or Vocational Education (1 credit)

TO SUCCESSFULLY COMPLETE YOUR HIGH SCHOOL PROGRAM, THE FOLLOWING MUST BE ACCOMPLISHED:

1. **English** - Students must complete a total of four years of English to meet graduation requirements. They must pass English I or Honors English I (1 credit) their freshman year. They must pass English II or Honors English II (1 credit) their sophomore year. Sophomores must also pass Speech or Accelerated Speech. Junior students are required to pass English III or AP Language (1 credit). Seniors students are required to pass English IV or AP Literature.
2. **Science** - Students must be enrolled in a life science class and a physical science class during their freshman and sophomore years. Freshmen can choose to take either Biology I or Honors Biology I to satisfy their life science requirement or Physical Science or Chemistry to satisfy the physical science requirement. If the student takes a life science class during their freshmen year, they must take a physical science class during their sophomore year. If they take a physical science class during their freshman year, they must take a life science class during their sophomore year. Students who have taken Physical Science during their freshman year generally take Biology I during their sophomore year. Students who have taken Biology I as freshmen generally take a

Physical Science course during their sophomore year. Students who have taken Honors Biology I as freshmen generally take Chemistry I as sophomores.

3. **Mathematics** - Most students will enroll in a course in mathematics during their freshman, sophomore, and junior years. Students who enroll in Algebra I & Algebra I Workshop during freshman year and Geometry & Geometry Workshop during sophomore year will have met their math requirement, so enrolling in math junior year is optional for these students. **All graduates** are required to pass 3 years of mathematics, one of which must be Algebra I and one with Geometry content.
4. **Social Studies** - Students must enroll in American History (1 credit) or AP US History (1 credit) during their junior year. A second Social Studies credit (1 credit) must be selected from the remaining Social Studies electives. Students must enroll in a U.S. Government during their senior year (1/2 credit). The U.S. and Illinois Constitution tests must be passed to be eligible for graduation.
5. **Physical Education** - Students must successfully complete 3 credits of physical education during their four years in high school.
 - (A) Students are required to enroll in physical education during every semester at Sandwich High School, unless the student is enrolled in Health or Driver Education or meets the requirements of P.E. exemption.
 - (B) A "medical" from physical education will verify that a student was medically unable to fulfill the physical requirement. Students who are not physically able to complete a year of physical education (affidavit from a certified medical doctor) must enroll in another course to attain the required credits necessary for graduation.
 - (C) Students failing a semester of physical education will be required to retake that semester.
6. **Consumer Education** - Students must enroll in a semester course in consumer education their junior or senior year. Students can elect to take AP Microeconomics to meet the Consumer Education requirement.
7. **Driver Education** - Students must enroll in a semester course in driver education. Eligibility is granted to students who have at least a sophomore standing, passing grades in at least eight courses during the previous two semesters and DOB requirements.
8. **Health** - Students must enroll for a semester in health education during their sophomore year.
9. In determining the awarding of credits, all decisions are based upon the successful completion of a semester of course work with a passing grade of 60% or higher.

10. Sandwich High School will allow 6 credits to apply towards graduation from correspondence schools, summer school, community college, and approved online courses. Students may take one outside credit freshman year, one sophomore year, two junior year, and two senior year. Exceptions can be made based on administrative approval. The counseling office must approve all courses.

11. **Waubonsee Community College** Senior students may petition to attend Waubonsee Community College on a shared time basis with their high school program (Dual Credit). Students must attend Sandwich High School for at least four periods per day. Those who elect to attend SHS part-time must be enrolled in at least five on-site Waubonsee credits; online courses cannot count toward the five on-site credits. Students **may not enroll** in Waubonsee classes that are available through Sandwich High School. Students that are dropped from Waubonsee during the semester must attend Sandwich High School for the remainder of the semester. Seniors attending Waubonsee must provide an official transcript before Sandwich High School will release high school transcripts. *Junior students may attend Waubonsee Community College during the summer term between their Junior and Senior years.*

12. The programs at the Indian Valley Vocational Center are available for juniors and seniors. IVVC course descriptions are listed within the registration booklet.

13. **Early Completion** - Early completion will be considered after consultation between the student, his/her parents/guardians, and school officials. In every instance, graduation requirements must be met. It is the responsibility of the student to secure an application for Early Completion form the Guidance Department and to then arrange for the initial conference with school authorities. The application for Early Completion must be submitted by October 1 of their senior year. Students electing the Early Completion option must agree to accept the following conditions:
 - A. To qualify for the Early Completion program at Sandwich High School, a student must have a minimum of seven semesters of high school attendance and must have fulfilled all graduation requirements at the conclusion of the school term, and the Early Completion student may take part in the graduation ceremony with classmates.
 - B. Students electing the Early Completion option will have their G.P.A. ranked with the class with which they entered high school.
 - C. The usual senior rights, privileges, and responsibilities will be expected from these students.
 - D. Students must have completed 19.5 credits by the end of the student's junior year (by August 15).

14. **Early Graduation** - Early graduation will require a formal petition by the student and his/her parents/guardians, careful review of the student's education and career plans by the high school staff, and approval of the petition by the Board of Education. The petition must be submitted to Sandwich High School prior to the beginning of a student's fifth semester of schooling. Students fulfilling all of these requirements and the required units necessary for graduation will be graduated, and a diploma awarded, at the time of the next scheduled graduation exercise. Students electing the Early Graduation option must agree to accept the following conditions:

- A. To qualify for the Early Graduation program at Sandwich High School, a student must have a minimum of six semesters of high school attendance.
 - B. Students electing the Early Graduation option will have their grade average and scholastic rank based with their graduating classmates (current seniors.)
 - C. The usual senior (i.e. fourth year) privileges, rights, and opportunities will be forfeited due to the student's Early Graduation. i.e. valedictorian or salutatorian honors.
15. **Dropping and adding courses** – Students will not be permitted to drop or add classes after the first three days of each semester. Students enrolled in year-long classes will not be allowed to drop these classes (at semester break) unless there are extenuating circumstances (i.e. failing grade (semester 1), medical, graduation requirement, etc.). If a student has seven classes, he/she will be permitted to drop one course for a study hall up to the fifth week of each semester. Dropping classes will only be permitted if other classes are available. Adding of classes will only be permitted in class sections that are not overloaded.
16. While students are entitled to an earned diploma, they do not possess a property interest or a right of entitlement to participation in graduation ceremonies or serve in any particular role at graduation. Academic misconduct shall cause a student to be ineligible for all awards and accolades related to valedictorian and salutatorian including, but not limited to, graduation speeches, press releases, and program announcements.
17. **STUDENT ELIGIBILITY FOR EXTRACURRICULAR ACTIVITIES** - in order to be eligible for extracurricular activities, a student must be passing a minimum of 5 regular credit courses (25 hours per week). A student also must have passed 5 regular credit courses the semester prior to his/her intended participation.

GRADING POLICY

The following grading policy has been adopted: 90-100% = A, 80-89% = B, 70-79% = C, 60-69% = D, 0-59% = F. Numerical basis for GPA A = 4.00, B = 3.00, C = 2.00, D = 1.00, F = 0.

Final grades will be computed using a straight percentage formula. Each quarter grades will count for 40% of the semester grade and the exam will count for 20% of the semester grade.

All classes that are one semester or more in length will be used to calculate each student's grade point average (GPA).

All honors courses are weighted on a 4.5 scale. The scale is as follows: A (4.5), B (3.5), C (2.5), D (1.5), and F (0.0). The following courses are weighted on a 4.5 scale: Honors English I, Honors English II, Honors Biology I, Honors Geometry, Honors Algebra II, and Honors Pre-Calculus/Trigonometry.

All Advanced Placement courses will be weighted on a 5.0 scale. The scale is as follows: A (5.0), B (4.0), C (3.0), D (2.0), and F (0.0). The following courses are weighted on a 5.0 scale: AP English Language and Composition, AP English Literature and Composition, AP Government and Politics (Comparative and US), AP United States History, AP Calculus AB, AP Statistics, AP Microeconomics, AP Macroeconomics, Introduction to Engineering Design, Principles of Engineering and Civil Engineering and Architecture.

Pass/Fail: According to Board Policy 6:280, students may choose to take a one year course or two semester courses for credit on a pass/fail basis per school year. A student can only take eight semesters using this option. The option may not be carried into another year if not used. Prerequisites must be completed before the student's schedule may include a course with the pass/fail arrangement. No more than one year course of each general subject area may be taken using the option. The Building Principal shall administer the pass/fail option.

A class taken pass/fail will not affect a student's GPA. Students that desire to take a class pass/fail must submit a written request to the building principal within the first five (5) days of the semester.

SCHEDULE CHANGES

Course selection at Sandwich High School begins in November and concludes in February. Schedules will be generated in May, and students can see their counselor regarding schedule change information. The student needs to make an appointment with a counselor to discuss potential changes before the end of the school year. Students will have one opportunity to change classes and should make all necessary changes at that time. Counselors will not make multiple changes except in the cases listed below. Students should make every attempt to complete **ALL** schedule changes prior to the end of the current school year.

1. **NO SCHEDULE CHANGES WILL BE MADE AFTER THE THIRD DAY OF SCHOOL, WITH THE FOLLOWING EXCEPTIONS AT THE BEGINNING OF EACH SEMESTER:**
 - A. Failure of required course necessary for graduation.
 - B. Enrolled in too few classes.
 - C. IVVC conflict.
 - D. School error.
 - E. Teacher request.
 - F. Administrative decision.
2. Students may add a class to a period they have a study hall, if the class has space and books are available.
3. Students failing the 1st semester of a year course will not automatically be dropped at the end of the semester. Teacher recommendations, achievement test scores, and other information will be used to determine if there is reasonable cause to drop a class. Requests must be made to the Guidance Department.
4. Requests to drop/add courses at the end of the 1st semester will not be made except for reasons stated in "3".
5. Students may drop a class up to the fifth week of the semester with a withdrawal – no credit or grade – if it is their 7th class. **STUDENTS WILL NOT BE PLACED IN ANOTHER COURSE, BUT WILL BE PLACED IN STUDY HALL ONLY.** Students dropping a class after the 5th week will receive an "F" for the semester.

COLLEGE INFORMATION

GENERALLY ACCEPTED GUIDELINES FOR ADMISSIONS PURPOSES:

1. You must be a graduate of an accredited (approved) high school. Cognia accredits Sandwich High School.
2. General requirements
 - A. State of Illinois colleges and universities
 1. English (oral & written comm. & lit) 4 credits
 2. Social Studies (History & Government) 3 credits
 3. Mathematics (Algebra, Geometry, Algebra II) 3 credits
 4. Lab Science (Biology, Chemistry, Physics, Adv. Biology, Adv. Chemistry) 3 credits
 5. Humanities (Art, Foreign Language, Music) 2 credits
 - B. Community College
 1. Completion of college assessment test in English and Math.
 2. Specific subject requirements are generally not stipulated by a two-year community college, but will be necessary if a student plans to transfer to a four-year college.
3. A combination of class rank, college entrance examinations, and high school subject requirements is used to determine admission for colleges. Colleges may vary in their entrance requirements, but the above academic credits will admit students to the majority of four-year colleges. If a student has selected a college, he/she must study the school's special requirements and plan his/her high school program accordingly.
4. It is important that students realize that the majority of those applying to college do so during the fall semester of their senior year. Because of this, their class rank for the initial application is based only on their freshman, sophomore, and junior grades. Each school year is important. Don't expect that good grades received only during your junior and senior years will automatically allow admittance to the chosen school.
5. In order to be certified eligible for college athletics, students must meet the following criteria:
 - A. Graduated from high school.
 - B. Earn a grade point average of at least 2.0 in the core curriculum courses (Please contact Guidance for core course definitions)
 - C. Earn a sum of scores of at least 68 on the ACT or 920 on the SAT.
 - D. Information on NCAA requirements is available below.
 - E. SAT must be taken on a national test day in addition to the exam given at SHS in April.
6. College visit days are available for juniors and seniors who need to visit colleges, universities, or trade and technical schools during the week. They may be taken from September through May 1, with the exception of the week before winter break and final exams. Students must see a counselor for the appropriate paperwork and have it completed two days prior to the college visit, and have a parent/guardian contact the office for approval.

NCAA Clearinghouse:

Students that are going to participate in athletics at Division I & Division II schools should become familiar with the NCAA and register at the NCAA Clearinghouse to verify eligibility. The NCAA has several core classes that are needed to qualify for the NCAA. Please visit the websites below for more information regarding NCAA athletic eligibility.

To register at the NCAA Clearinghouse please visit www.ncaaclearinghouse.net. More information is also available at www.ncaa.org on the NCAA organization.

VOCATIONAL EDUCATION AND SCHOOL

(TRADE, BUSINESS, AND VOCATIONAL SCHOOLS)

WHEN SELECTING A VOCATIONAL SCHOOL, KEEP THE FOLLOWING IN MIND:

1. The school and its agents must be approved by the Office of the Superintendent of Public Instruction. Check with a School Counselor.
2. The school must have the proper accrediting credentials.
3. Study the school catalog for information relating to curriculum and course study.
4. Visit the school to see for yourself the buildings, facilities, and activities.
5. Employers within our community can make suggestions and recommendations.
6. If you are considering more than one school, compare programs and cost.
7. When enrolling or signing a contract, be sure you understand the terms of the agreement or contract.

COURSE SELECTION

On the following pages you will find a short description of the courses offered at Sandwich High School. If you have any questions, ask your school counselor or teachers.

Students should be aware of the importance of selecting courses in a realistic manner. Avoid confusion in the future by planning your program in advance. All classes are open to males and females.

ENGLISH CURRICULUM

ENGLISH I

CREDIT: 1 - Required Course

GRADE PLACEMENT: 9

SEMESTER: Full Year

DESCRIPTION: This course emphasizes grammar, mechanics, usage, and vocabulary. Units on composition, short story, drama, poetry, and non-fiction also will be covered. Several novels and a research unit will be included in the course.

HONORS ENGLISH I (weighted .5)

CREDIT: 1

RECOMMENDATION: A or B in Middle School English and teacher recommendation

GRADE PLACEMENT: 9

SEMESTER: Full Year

DESCRIPTION: This course is designed to present challenging literature for freshmen planning to attend a four-year university. The course requires analysis of all forms of literature through written essays, journals, creative projects, tests, quizzes, and class discussion. The literature will provide ample opportunity to increase vocabulary and reading skills. This is an accelerated English course for students who should have received an A or B in 8th grade English, have taken advanced English in middle school, and are highly motivated.

ENGLISH II

CREDIT: 1 - Required Course

GRADE PLACEMENT: 10

SEMESTER: Full Year

DESCRIPTION: Students will write multi-paragraph essays: expository, comparison/contrast, narrative, descriptive, persuasive; they will also write a research essay. Students will also study literature and vocabulary as well as grammar and usage skills.

HONORS ENGLISH II (weighted .5)

CREDIT: 1

RECOMMENDATION: A or B in Freshman English and teacher recommendation

GRADE PLACEMENT: 10

SEMESTER: Full Year

DESCRIPTION: This accelerated class is designed for the student who is highly motivated and academically strong. Students will write multi-paragraph essays: expository, comparison/contrast, narrative, descriptive, persuasive; they will also write a research essay. Students will also study literature and vocabulary as well as grammar and usage skills.

SPEECH COMMUNICATIONS

CREDIT: 1/2

GRADE PLACEMENT: 10-12

SEMESTER: Either

DESCRIPTION: This is a required course for graduation and is recommended for sophomores. Students will study interpersonal communication, nonverbal communication, and listening skills. They will participate in interviews, group discussion and informative and persuasive speaking. They will become proficient in choosing and limiting topics, gathering research materials, and organizing effectively.

ACCELERATED SPEECH COMMUNICATIONS

CREDIT: 1/2

GRADE PLACEMENT: 10-12

SEMESTER: Either

DESCRIPTION: This is a required course for graduation and is recommended for sophomores. Students will study interpersonal communication, nonverbal communication, and listening skills. They will participate in interviews, group discussion and informative and persuasive speaking. They will become proficient in choosing and limiting topics, gathering research materials, and organizing effectively. Speech time expectations will be extended and one extra speech is required.

ENGLISH III

CREDIT: 1 - Required Course

GRADE PLACEMENT: 11

SEMESTER: Full Year

DESCRIPTION: This full-year class uses a chronological approach to the study of American literature. Students apply the changing times in America to the literature and analyze how the cultural and social environment helped to shape the literature of the times. Major papers are focused on literary analysis as well as minor writing assignments and journals. Major novels by classical and contemporary authors are studied.

AP ENGLISH LANGUAGE AND COMPOSITION (weighted 1.0)

CREDIT: 1

RECOMMENDATION: A or B in Honors English II (Students in English II can be recommended by their teacher)

GRADE PLACEMENT: 11

SEMESTER: Full Year

DESCRIPTION: An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. While the AP English Language and Composition course assumes that students already understand and use standard English grammar, it also reflects the practice of reinforcing writing conventions at every level. The intense concentration on language use in the course enhances students' ability to use grammatical conventions appropriately and to develop stylistic maturity in their prose. Stylistic development is nurtured by emphasizing a wide-ranging vocabulary used appropriately and effectively; a variety of sentence structures, including appropriate use of subordination and coordination; logical organization, enhanced by specific techniques to increase coherence, such as repetition, transitions and emphasis; a balance of generalization and specific illustrative detail; and an effective use of rhetoric, including controlling tone, establishing and maintaining voice, and achieving appropriate emphasis through diction and sentence structure.

ENGLISH IV

CREDIT: 1

GRADE PLACEMENT: 12

SEMESTER: Full Year

DESCRIPTION: This course is designed for the student who plans to attend a 2-year college. The following units of study will be included: literature, functional writing, vocabulary, research, grammar, and usage skills.

COLLEGE PREP ENGLISH

CREDIT: 1

RECOMMENDATION: Instructor Approval

GRADE PLACEMENT: 12

SEMESTER: Full Year

DESCRIPTION: College Prep English courses are college preparatory courses that develop student skills in reading, critical thinking and analysis, and writing to support student success across majors and career pathways while aligning with the Illinois Learning Standards. College Prep English courses address, at minimum, the following domains and competencies: reading (active reading strategies, summarization of a text, analysis and interpretation of texts), writing (identification of and writing processes based on audience, purpose and task, incorporation and documentation of relevant information), and critical thinking and analysis (credibility and reliability of evidence, engagement with evidence, information literacy skills). Additionally, the course emphasizes domains of metacognition and essential skills to develop self-awareness and overall college and career readiness. Upon completion students should be able to adapt their approaches and strategies as they engage in reading and writing tasks; analyze, evaluate, and synthesize while reading and writing; and demonstrate information literacy skills as an engaged reader and as a contributing writer. The course is delivered through an approach that integrates instruction across the competency domains and organizes the course pedagogy and selected texts around themes, critical issues, or concepts that foster critical thinking, reading, and writing skills.

AP ENGLISH LITERATURE AND COMPOSITION (weighted 1.0)

CREDIT: 1

RECOMMENDATION: A or B in AP English Language and Composition

GRADE PLACEMENT: 12

SEMESTER: Full Year

DESCRIPTION: An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for the readers. As they read, students consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. This course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. Reading in this class is both wide and deep. Students will read works from several genres and periods – from the 16th to the 21st century.

JOURNALISM I

CREDIT: 1

GRADE PLACEMENT: 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: This course is designed for students who have an interest in journalism. Emphasis is on news writing. This will be done by producing articles for publication. Students will write stories about District 430 schools and must be able to gather material from other district schools. Units include story writing, layout design, photography, advertising, and newspaper production using computer programs. This elective course does not replace the required English curriculum. This class may be repeated.

JOURNALISM II

CREDIT: 1

RECOMMENDATION: Journalism I & Instructor Approval

GRADE PLACEMENT: 11, 12

SEMESTER: Full Year

DESCRIPTION: Students must demonstrate writing competencies to be in this class. It is designed for students who have an interest in layout design, writing, photography, sales, and advertising for the yearbook. This class often requires time outside the regular school day to meet publisher's deadlines. Also, summer work may be required to complete the yearbook. Students will receive an incomplete until all of their deadlines are met. This class may be repeated for graduation credit; however, it does not replace the required English core curriculum.

Dual Credit Waubensee Community College

ENG101 First year Composition I Dual Credit

Title: First-Year Composition I

Credit Hours: 3

Lecture Hours: 3

Lab/Clinical/Studio Hours: 0

Course Description:First semester This course focuses on the writing and revising of academic essays or writing projects and is the first in a two-course sequence. First-Year Composition I develops awareness of writing processes; provides strategies for inventing, organizing, and editing; stresses a variety of uses for writing while analyzing audiences, purposes, or contexts in texts; and emphasizes critical skills in reading, thinking, and writing. Academic writing is distinguished from various discourse communities by formality, conventions, and multi-sourced content.

Prerequisite/Corequisite:Enforced Prereq: 3.0 cumulative, non weighted, previous six semesters, or a 480 or better on the SAT

Passing with an A, B, or C will earn 3.0 college credits at Waubensee Community College. A grade of a D or an F will earn a W with Waubensee Community College but students will still get High School Credit.

ENG 102 First year Composition II Dual Credit

Title: First-Year Composition II

Credit Hours: 3

Lecture Hours: 3

Lab/Clinical/Studio Hours: 0

Course Description:Second Semester: This course focuses on the writing, researching, and revising of academic essays, and writing projects. The second of a two-course sequence, First-Year Composition II continues to develop awareness of writing processes; provides more complex strategies for inventing, organizing and editing; stresses a variety of uses for writing while analyzing audiences, purposes, or contexts in texts; and emphasizes critical skills in reading, thinking, and writing. Academic writing is distinguished from various discourse communities by formality, conventions, and multi-sourced content. Students will write critically reflective and analytical academic research papers. **Prerequisite: C or better in English 101**

Passing with an A, B, or C will earn 3.0 college credits at Waubensee Community College. A grade of a D or an F will earn a W with Waubensee Community College but students will still get High School Credit.

SOCIAL STUDIES CURRICULUM

INTRODUCTION TO SOCIAL STUDIES

CREDIT: 1/2

GRADE PLACEMENT: 9

SEMESTER: Either

DESCRIPTION: This is a semester course offered to freshmen students to introduce them to the many aspect of the social sciences. Units will include economics, sociology, geography, history, and political science.

WORLD GEOGRAPHY

CREDIT: 1/2

GRADE PLACEMENT: 9, 10

SEMESTER: Either

DESCRIPTION: World Geography is a one semester course. The class is mainly for freshmen and sophomore students. This class will look at the cultural, physical and political makeup of countries throughout the world.

PRACTICAL LAW

CREDIT: 1/2

GRADE PLACEMENT: 9,10

SEMESTER: Either

DESCRIPTION: The objective of this course is to develop an understanding of the basic concepts of the law. The course will stress the processes of the law and the ways in which the law affects you as an individual. It will also consider the many careers available in law enforcement.

WORLD HISTORY: ANCIENT TIMES (PREHISTORIC TO 1350 AD)

CREDIT:1/2

GRADE PLACEMENT: 9,10,11,12

RECOMMENDATION: Students should have a B or better average in previous social science and reading courses.

SEMESTER:First Semester

DESCRIPTION: This is a college-bound course that deals with the growth of civilizations from early man to the Renaissance. The course dwells upon the achievements and advances that different people have contributed to society, and the influence of major events on the growth of the world.

WORLD HISTORY: MEDIEVAL TO EARLY MODERN TIMES (1350 – 1918)

CREDIT: 1/2

GRADE PLACEMENT: 9,10,11,12

RECOMMENDATION: Students should have a B or better average in previous social science and reading courses.

SEMESTER: Second Semester

DESCRIPTION: This is a college-bound course that deals with the growth of modern civilizations from the Renaissance through World War II. The course dwells upon the achievements and advances that different people have contributed to society, and the influence of major events on the growth of the world.

MODERN WORLD HISTORY: Twentieth Century (1918 to the present)

CREDIT: 1/2

GRADE PLACEMENT: 11, 12

SEMESTER: Either

DESCRIPTION: This is for students seeking to improve their knowledge of modern world history. The class deals with world civilizations from World War I to the present with emphasis on war, diplomacy, trends, social history, and linking the past to the present.

AMERICAN HISTORY

CREDIT: 1 – REQUIRED COURSE

GRADE PLACEMENT: 11

SEMESTER: Full Year

DESCRIPTION: This course takes a theoretical and factual approach to the growth of our American democracy and diplomacy. It stresses the political, social, economic, and military development of the United States.

AP US HISTORY (weighted 1.0)

CREDIT: 1 – REQUIRED COURSE (IN LIEU OF AMERICAN HISTORY THROUGH WWII)

GRADE PLACEMENT: 11

SEMESTER: Full Year

DESCRIPTION: This course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials- their relevance to a given interpretive problem, their reliability, and their importance- and to weigh the evidence and interpretations presented in historical scholarship. This course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. (College Entrance Examination Board. Course Description: United States History. New York, New York. 2001.) Note: for a student paid fee set by Advanced Placement (approx. \$93), students have the opportunity to take an exam in May that will be worth the equivalent of one college course if passed.

CURRENT EVENTS

CREDIT: 1/2

GRADE PLACEMENT: 11, 12

SEMESTER: Either

DESCRIPTION: This course is designed to acquaint the student with contemporary affairs, historical background, and possible future outcomes. This course will deal with all phases of our current society. **Current Events cannot be repeated.**

SOCIOLOGY

CREDIT: 1/2

GRADE PLACEMENT: 10, 11, 12

RECOMMENDATION: Grade of B or better in previous Social Studies classes.

SEMESTER: Either

DESCRIPTION: This is a college-bound course and will deal with the study of human relationships. The course will take a very general look at man in modern society and how he relates to the social system. Topics to be covered are race relations, various forms of social deviance, social stratification, culture, cultural diversity, personality, adolescence, and adult development.

PSYCHOLOGY

CREDIT: 1/2

GRADE PLACEMENT: 10, 11, 12

RECOMMENDATION: Grade of B or better in previous Social Studies classes.

SEMESTER: Either

DESCRIPTION: This is a college-bound course that is designed to introduce students to psychological concepts and theories. This course covers such topics as learning, cycle of life, roots of behavior, personality and individuality, adjustments in life, and psychological disorders.

ETHNIC HISTORY

CREDIT: 1/2

GRADE PLACEMENT: 12

SEMESTER: Either

DESCRIPTION: This is primarily a reading and writing course. Lectures, slide presentations, and films will be used to illustrate the arrival and migration of different ethnic minorities. A short unit on finding family roots also will be included.

AMERICAN GOVERNMENT

CREDIT: 1/2

GRADE PLACEMENT: 12

SEMESTER: Either

DESCRIPTION: American Government is a study of the American Political System at both the state and national levels of government. Passing this class will fulfill the state requirements of the U.S. and Illinois Constitution requirements.

AP GOVERNMENT AND POLITICS: US (weighted 1.0)

CREDIT: 1/2

GRADE PLACEMENT: 12

RECOMMENDATION: American History or AP US History

SEMESTER: Either

DESCRIPTION: This course will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U. S. government and politics. While there is no single approach that an AP United States Government and Politics course must follow, students should become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Certain topics are usually covered in all college courses. (College Entrance Examination Board. Course Description: Government & Politics: United States. New York, New York. 2010.) Note: for a student paid fee set by Advanced Placement (approx. \$90), students have the opportunity to take an exam in May that will be worth the equivalent of one college course if passed.

AP GOVERNMENT AND POLITICS: COMPARATIVE (weighted 1.0)

CREDIT: 1/2

GRADE PLACEMENT: 12

RECOMMENDATION: American History or AP US History

SEMESTER: Either

DESCRIPTION: The AP course in Comparative Government and Politics introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. Comparison assists both in identifying problems and in analyzing policymaking. In addition to covering the major concepts that are used to organize and interpret what we know about political phenomena and relationships, the course should cover specific countries and their governments. Six countries from the core of the AP Comparative Government and Politics course. China, Great Britain, Mexico, Nigeria, and Russia are all regularly covered in college-level introductory comparative politics courses. The inclusion of Iran adds a political system from a very important region of the world and one that is subject to distinctive political and cultural dynamics.

By using these six core countries, the course can move the discussion of concepts from abstract definition to concrete example, noting that not all concepts will be equally useful in all country settings. (College Entrance Examination Board. Course Description: Politics and Government: Comparative. New York, New York. 2006.) NOTE: For a fee set by Advanced Placement (approx. \$90), students have the opportunity to take an exam in May that will be worth the equivalent of one college course if passed.

AP MICROECONOMICS (weighted 1.0)

CREDIT: 1/2

GRADE PLACEMENT: 11, 12

SEMESTER: Either

DESCRIPTION: The purpose of the AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. It includes the following concepts: scarcity, opportunity costs and production possibilities, specialization and comparative advantage, the functions of economic systems, nature and function of product market, supply and demand costs, revenue, product pricing and outputs, efficiency and government policy, factor markets, equity and the role of government. The class is designed to provide students with the analytical skills and factual knowledge necessary to critically deal with the problems and materials in economics. The program prepares students for intermediate and advanced college courses.

AP Microeconomics does count toward the Consumer Education Requirement.

AP MACROECONOMICS (weighted 1.0)

CREDIT: 1/2

GRADE PLACEMENT: 11, 12

SEMESTER: Either

DESCRIPTION: AP Macroeconomics is a course designed to provide students with a thorough understanding of the principles of economics in examining aggregate economic behavior. Students taking the course can expect to learn how the measures of economic performance, such as GDP (Gross Domestic Product), inflation and unemployment, are constructed and how to apply them to evaluate the macroeconomic conditions of an economy. Students will also learn the basic analytical tools of macroeconomics, primarily the aggregate demand and aggregate supply model and its application in the analysis and determination of national income, as well as evaluating the effectiveness of fiscal policy and monetary policy in promoting economic growth and stability. Recognizing the global nature of economics, students will also have ample opportunities to examine the impact of international trade and international finance on national economics. Various economic schools of thought are introduced as solutions to economic problems. The class is designed to provide students with the analytical skills and factual knowledge necessary to critically deal with the problems and materials in economics. The program prepares students for intermediate and advanced college courses.

AP Macroeconomics does not count toward the Consumer Education Requirement.

GLOBAL STUDIES

CREDIT: .5

GRADE PLACEMENT: 12

Not offered yearly

RECOMMENDATION: AP US History

SEMESTER: Either

DESCRIPTION: This course will focus on major global events in the past 40 years. It will include studies on genocide, the Aids crisis around the world, overpopulation, World hunger, using American foreign policy to address these issues. Geography of areas will also be studied.

SCIENCE CURRICULUM

Students need to be enrolled in a *life science class and a physical science class during their freshman and sophomore years. **College bound students should take 3-4 years of science.***

Anatomy and Physiology, Chemistry II, Earth Science, Environmental Science, AP Biology, and Physics/AP Physics are electives available to juniors and seniors. PLTW courses count as science electives for all students. PLTW courses do not satisfy the life science and physical science requirements.

PHYSICAL SCIENCE (Physical Science)

CREDIT: 1

GRADE PLACEMENT: 9, 10

SEMESTER: Full Year

DESCRIPTION: Physical Science is an introduction to the physical sciences. The basics of chemistry, physics, and earth science will be explored. Emphasis is given to practical applications. Learning methods include, but are not limited to, lectures, labs, and class discussions. This course qualifies as a high school lab science credit.

BIOLOGY I (Life Science)

CREDIT: 1

GRADE PLACEMENT: 9, 10

SEMESTER: Full Year

DESCRIPTION: Biology I introduces the student to a variety of biological topics through lecture, laboratory, and other class activities. Emphasis is on relating the class material to the student's daily life. Human biology is stressed and examples are taken from human systems where possible. Biology I is designed to increase the student's understanding of himself and the world around him. This course qualifies as a high school lab science credit.

HONORS BIOLOGY I (Life Science)

CREDIT: 1

REQUIRED: B or higher in 8th Grade Science, enrolled in Algebra I or higher

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: Honors Biology I is a course intended for the academically oriented student. It is essential that the student be prepared to handle a large volume of complicated material and terminology. Laboratory exercises will illustrate concepts introduced in reading and class lectures. Topics include: taxonomy, biochemistry, cell structure and function, genetics, evolution, microbiology and infectious disease, human anatomy and physiology, and ecology. This course qualifies as a high school lab science credit.

AP BIOLOGY I (weighted 1.0)

CREDIT: 1

REQUIRED: Completion of Biology and Chemistry

GRADE PLACEMENT: 11, 12

SEMESTER: Full Year

DESCRIPTION: AP Biology is an introductory college-level biology course where students use inquiry-based investigations to explore topics such as evolution, cellular process, energy & communication, genetics, information transfer, ecology and interactions. According to the College Board, the 2016 AP Biology exam had a pass rate of 63.8%. This is only behind the two calculus-based physics courses offered in the area of science. In 2015, 8,358 Illinois students took the AP Biology exam with 5,288 students earning college credit.

Dual Credit Waubensee Community College

Introduction to Biology (Bio 100- Dual Credit)

Prefix/Number: BIO 100

Title: Introduction to Biology

Credit Hours: 3

Description: This general survey course deals with selected concepts and theories in biology at various scales, including the organization, function, heredity, evolution and ecology of living things. Through experiments that exemplify this content, students will understand the components of the scientific method, and sound experimental design. Biological issues with personal and social implications are introduced to allow students to make informed decisions regarding issues in daily life and society with a biological basis. Passing with an A, B, or C will earn 3.0 college credits at Waubensee Community College. A grade of a D or an F will earn a W with Waubensee Community College. **Corequisite: Introduction to Biology Laboratory (Bio 101- Dual Credit)**

Introduction to Biology Laboratory (Bio 101- Dual Credit)

Prefix/Number: BIO 100

Title: Introduction to Biology

Credit Hours: 1

Description: This laboratory course is intended to be taken concurrently with Introduction to Biology (BIO100). Through laboratory experiences, this course explores selected concepts and theories in biology using the scientific method, and proper use of biological laboratory equipment will be emphasized. Topics such as organization, function, heredity, evolution, biodiversity and ecology will be explained using a variety of organisms as models. Passing with an A, B, or C will earn 1.0 college credits at Waubensee Community College. A grade of a D or an F will earn a W with Waubensee Community College.

Corequisite: Introduction to Biology (Bio 100- Dual Credit)

CHEMISTRY I (Physical Science)

CREDIT: 1

REQUIRED: Students must be enrolled in or completed Algebra I with at least a C average AND complete either Biology I with at least a B average OR Advanced Biology I with at least a C average.

GRADE PLACEMENT: 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: Chemistry I is an introduction to the study of composition and structure of matter. Topics covered include measurements, organization of substances, chemical formulas, stoichiometry, atomic theory, periodic law, phases of matter, thermodynamics, and chemical reactions. This course qualifies as a high school lab science credit.

ANATOMY AND PHYSIOLOGY

CREDIT: 1

REQUIRED: Students must have received a grade of C or above in Honors Biology I or a B or above in Biology I and a grade of C or above in Chemistry I.

GRADE PLACEMENT: 11, 12

SEMESTER: Full Year

DESCRIPTION: Biology II is an upper level course intended for the academically oriented student having a particular interest in the life sciences. The student must be prepared to handle a large volume of complicated material and terminology. Emphasis is on illustrating biological concepts using the human body as a model. Topics include biochemistry, cytology, histology, and human anatomy and physiology. This course qualifies as a high school lab science credit.

CHEMISTRY II

CREDIT: 1

REQUIRED: Students must have completed Chemistry I with a grade of C or above.

GRADE PLACEMENT: 11, 12

SEMESTER: Full Year

DESCRIPTION: Chemistry II provides a more detailed examination of some of the topics explored in Chemistry I as well as consideration of more advanced topics including organic chemistry and biochemistry. In addition to increased lab work, a science fair project is required of all Chemistry II students during the second semester. This course is strongly recommended for anyone planning future education in the sciences. This course qualifies as a high school lab science credit.

EARTH SCIENCE

CREDIT: 1/2

REQUIRED: Students must have passed both semesters of their required physical and life science courses.

GRADE PLACEMENT: 11, 12

SEMESTER: Either

DESCRIPTION: Earth Science is a study of the scientific method, the composition of earth, surface processes on earth; including erosion, wind, glaciers, surface water, ground water, atmosphere, plate tectonics, and fossil formation. This course also looks at formation of the solar system and the sun-earth-moon system. This is an elective science course. This course qualifies as a high school lab science credit.

ENVIRONMENTAL SCIENCE

CREDIT: 1/2

REQUIRED: Students must have passed both semesters of their required physical and life science courses.

GRADE PLACEMENT: 11, 12

DESCRIPTION: Environmental Science is an elective science course focusing on the natural world and the environment. It will be a comprehensive class covering a variety of topics ranging from ecosystem interactions to human impact on various environmental systems. Students will investigate both the history of the environment and potential problems and solutions facing the environment today and in the future. This course qualifies as a high school lab science credit.

PHYSICS

CREDIT: 1

REQUIRED: Students must have completed trigonometry with a grade of C or above or currently enrolled in advanced pre-calc / trig and have received a grade of B or above in Algebra II.

GRADE PLACEMENT: 12

SEMESTER: Full Year

DESCRIPTION: This course introduces the student to the basic concepts of physics. Topics include measurement, graphical analysis, linear and two-dimensional motion, vectors, dynamics, waves and vibrations, sound, light, and electromagnetism. Students should have a strong math background and are expected to understand challenging mathematical applications. There will be a variety of projects required throughout the year, among them bridge building and the construction of a catapult. This course qualifies as a high school lab science credit.

AP PHYSICS (weighted 1.0)

CREDIT: 1

REQUIRED: Students must have completed trigonometry with a grade of C or above or currently enrolled in advanced pre-calc/trig and have received a grade of B or above in Algebra II.

GRADE PLACEMENT: 12

SEMESTER: Full Year

DESCRIPTION: AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry based investigations that provide students with opportunities to apply the science practices. Each student should complete a lab notebook or portfolio of lab reports.

PLTW-STEM CURRICULUM

(Elective Science Credit -weighted 1.0)

INTRODUCTION TO ENGINEERING DESIGN (weighted 1.0)

CREDIT: 1 (Elective Science Credit)

RECOMMENDATION: Students must have completed Accelerated Geometry or concurrently enrolled in Geometry.

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: This is the first course in a two-year sequence. In this course, students dig deep into the engineering design process, applying math, science and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

PRINCIPLES OF ENGINEERING (Weighted 1.0)

CREDIT: 1 (Elective Science Credit)

Not Yearly

RECOMMENDATION: Students must have completed Geometry or concurrently enrolled in Geometry.

GRADE PLACEMENT: 10, 11, 12 (recommended)

SEMESTER: Full Year

DESCRIPTION: This is the second course in a two-year sequence. In this course, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials and automation. Students develop skills in problem solving, research and design while learning strategies for design process documentation, collaboration and presentation.

CIVIL ENGINEERING AND ARCHITECTURE

CREDIT: 1

Not Yearly

GRADE PLACEMENT: 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: Civil Engineering and Architecture introduces students to the fundamental design and development aspects of civil engineering and architectural planning activities. This course is part of the PLTW Engineering curriculum. Application and design principles will be used in conjunction with mathematical and scientific knowledge. Computer software programs will allow students opportunities to design, simulate, and evaluate the construction of buildings and communities. During the planning and design phases, instructional emphasis will be placed on related transportation, water resources, and environmental issues. Activities include the preparation of cost estimates as well as a review of regulatory procedures that would affect the project design.

PREREQUISITE: Introduction to Engineering and Design (IED)

MATHEMATICS CURRICULUM

ALGEBRA I

CREDIT: 1

RECOMMENDATION: C or above in previous math course

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Full year

DESCRIPTION: This course content will include the real number system (positive, zero, and negative numbers). Emphasis is placed upon solving equations, graphing, work with functions, systems of linear equations, work with powers and roots, and an introduction into quadratic equations. A scientific calculator or better is required.

The recommended calculator is the TI-84 Plus Silver Edition.

ALGEBRA I WORKSHOP

CREDIT: 1 (math elective-does not count toward the Algebra and Geometry content requirement)

PLACEMENT: Teacher recommendation

SEMESTER: Full year

DESCRIPTION: This course is taken in conjunction with Algebra I. This course will reinforce the content taught in Algebra I and allow time for support with homework assigned during the day. Content will include the real number system (positive, zero, and negative numbers). Emphasis is placed upon solving equations, graphing, work with functions, systems of linear equations, work with powers and roots, and an introduction into quadratic equations.

ACCELERATED ALGEBRA I

CREDIT: 1

RECOMMENDATION: Instructor recommendation

GRADE PLACEMENT: 9

SEMESTER: Full Year

DESCRIPTION: A faster-paced Algebra I course designed for those students who completed Algebra I in 8th grade and need to strengthen their skills before enrolling in Accelerated Geometry or for those who excelled in 8th grade math. A scientific calculator or better is required. ***The recommended calculator is the TI-84 Plus Silver Edition.***

GEOMETRY

CREDIT: 1

RECOMMENDATION: C or Above in Algebra I

GRADE PLACEMENT: 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: Reasoning is the key to this course. It stresses forms of proof by using logical forms of argument. As the course proceeds, more and more algebra skills are needed in applying previously learned geometric concepts. A scientific calculator or better is required. ***The recommended calculator is the TI-84 Plus Silver Edition.***

GEOMETRY WORKSHOP

CREDIT: 1 (math elective-does not count toward the Algebra and Geometry content requirement)

PLACEMENT: Teacher recommendation

SEMESTER: Full year

DESCRIPTION: This course is taken in conjunction with Geometry. This course will reinforce the content taught in Geometry and allow time for support with homework assigned during the day. Students must be enrolled in Geometry at the same time.

HONORS GEOMETRY (Weighted .5)

CREDIT: 1

RECOMMENDATION: A or B in 8th grade Algebra I or instructor recommendation

GRADE PLACEMENT: 9, 10

SEMESTER: Full Year

DESCRIPTION: A faster-paced geometry course designed for those students who have been accelerated in mathematics. A scientific calculator or better is required. ***The recommended calculator is the TI-84 Plus Silver Edition.***

ALGEBRA II

CREDIT: 1

RECOMMENDATION: C or Above in Geometry

GRADE PLACEMENT: 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: The mathematical skills learned are now extended so that the students can work in the complex number system (which includes the real number system). The topics covered in Algebra I are reviewed and then extended so that they are covered much more in depth. Some new topics covered include quadratic relations and systems. A scientific calculator or better is required. ***The recommended calculator is the TI-84 Plus Silver Edition.***

HONORS ALGEBRA II (Weighted .5)

CREDIT: 1

RECOMMENDATION: A or B in Accelerated Geometry or Instructor Recommendation.

GRADE PLACEMENT: 10, 11

SEMESTER: Full Year

DESCRIPTION: A faster-paced Algebra II course designed for the serious math student who is planning to enroll in calculus. A scientific calculator or better is required. ***The recommended calculator is the TI-84 Plus Silver Edition.***

PRE-CALCULUS

CREDIT: .5

RECOMMENDATION: A graphing calculator is required. A TI-84 Plus Silver Edition is recommended. A TI-83 also may be used. Instruction will be provided on the use of calculators. If a different model is chosen, students will be responsible for its operation. **Use of a TI-89 or TI-92 is prohibited**

GRADE PLACEMENT: 11, 12

SEMESTER: First

DESCRIPTION: This one-semester course emphasizes college algebra and theory of equations. It also includes matrices and vectors, series and sequences, polar coordinates and complex numbers, exponential and logarithmic functions. As time permits probability will be explored.

QUANTITATIVE LITERACY AND STATISTICS

CREDIT: 1

RECOMMENDATION: Must have completed three years of mathematics including Algebra II (or equivalent) and one Geometry based course. SAT math scores should be below 550. **A TI-84 Plus Silver Edition** is recommended. **A TI-83 also may be used. Instruction will be provided on the use of calculators. If a different model is chosen, students will be responsible for its operation. **Use of a TI-89 or TI-92 is prohibited**

GRADE PLACEMENT: 12

SEMESTER: Full Year

DESCRIPTION: The Quantitative Literacy and Statistics Pathway is for students focused on attaining competency in general statistics, data analysis, quantitative literacy, and problem solving. This course is intended for students whose career goals do not involve occupations relating to either the College Algebra or Technical Math Pathway or those who have not yet selected a career goal. **The curriculum will be adjusted as the state finalizes their requirements. The course book will be updated to reflect changes.**

AP STATISTICS (Weighted 1)

CREDIT: 1

RECOMMENDATION: B or better in Algebra II with recommendation OR B or better in a class higher than Algebra II.

GRADE PLACEMENT: 12

SEMESTER: Full Year

DESCRIPTION: AP Statistics is an introductory college-level statistics course for students with strong math and writing skills that is designed to prepare students for the AP Exam. College credit can be earned dependent on the AP Exam score. This course introduces students to major concepts and tools for collecting, analyzing, and drawing conclusions from data. Course content will include: exploring data types and representations, observing patterns and departures from patterns, sampling methods, experimentation, randomness and probability, data distributions, and statistical inference. Students will utilize technology throughout the course including a graphing calculator. TI-83 or TI-84 graphing calculator is required.

TRIGONOMETRY

CREDIT: .5

RECOMMENDATION: C or better in Algebra II and Pre-Calculus. *A graphing calculator is required.* **A TI-84 Plus Silver Edition** is recommended. **A TI-83 also may be used. Instruction will be provided on the use of calculators. If a different model is chosen, students will be responsible for its operation. **Use of a TI-89 or TI-92 is prohibited**

GRADE PLACEMENT: 11, 12

SEMESTER: Second

DESCRIPTION: An intensive study of the relationship of algebra and geometry. Concepts studied in detail include trigonometric functions, identities, and equations; radian measure; circular functions; logarithms; and solving triangles.

HONORS PRECALCULUS / TRIGONOMETRY (Weighted .5)

CREDIT: 1

RECOMMENDATION: A or B in Honors Algebra II or instructor recommendation. A graphing calculator is required. A TI-84 Plus Silver Edition is recommended. A TI-83 also may be used. Instruction will be given on the use of recommended calculators. If a different model is chosen, students will be responsible for its operation. Use of a TI-89 or TI-92 is prohibited.

GRADE PLACEMENT: 11, 12

SEMESTER: Full Year

DESCRIPTION: A full year course that includes college algebra and trigonometry. It is designed for those students who have been accelerated in mathematics. Trigonometric relationships will be studied in depth. Algebra II concepts will be extended; new topics to be studied are translations of graphs, fundamental theorem of algebra, probability, and polar coordinates.

CALCULUS

CREDIT: 1

RECOMMENDATION: B or better in pre-calculus and trigonometry or in advanced pre-calculus. A graphing calculator is required. A TI-84 Plus Silver Edition is recommended. A TI-83 may be used. Instruction will be given on the use of these calculators. If a different model is chosen, the student will be responsible for its operation. Use of a TI-89 or a TI-92 is prohibited.

GRADE PLACEMENT: 12

SEMESTER: Full Year

DESCRIPTION: A college level class intended for those students that have been in accelerated mathematics and will need calculus to complete their college curriculum. Topics include limits, continuity, derivatives and their applications, and integrals and their applications.

AP CALCULUS AB (Weighted 1)

CREDIT: 1

RECOMMENDATION: A in advanced pre-calculus. Students must also be familiar with the properties of functions, the algebra of functions and the graphs of functions. Students must also understand the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts and so on) and know the values of

the trigonometric functions at the numbers $0, \frac{\pi}{6}, \frac{\pi}{4}, \frac{\pi}{3}, \frac{\pi}{2}$, and their multiples. A graphing calculator is required. A TI-84 Plus Silver Edition is recommended. A TI-83 may be used. Instruction will be given on the use of these calculators. If a different model is chosen, the student will be responsible for its operation. Use of a TI-89 or a TI-92 is prohibited.

GRADE PLACEMENT: 12

SEMESTER: Full Year

DESCRIPTION: A college level class intended for those students that have been in accelerated mathematics and intend to take the AP Calculus AB test in the spring in the hopes of gaining college credit. Topics include limits, continuity, derivatives and their applications, and integrals and their applications. An emphasis will also be placed on how to explain solutions to problems both verbally and in written sentences.

FOREIGN LANGUAGE CURRICULUM

The following are recommended for students seeking to learn a foreign language: 1) Strong desire to master a foreign language, 2) Self-discipline. Two years of foreign language is an entrance requirement at many colleges and universities. Four years may exempt the student from the college level foreign language graduation requirement.

SPANISH I

CREDIT: 1

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: This beginning course is a proficiency oriented, comprehension based class. During lessons, students will learn language and culture simultaneously to develop more cultural understanding of Spanish speaking countries. Upon completion of this course, students will have acquired frequently used words and be able to understand what they read and hear on a variety of topics. A grade of C or higher is required to move on to Spanish 2.

SPANISH II

CREDIT: 1

REQUIRED: Spanish I

GRADE PLACEMENT: 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: This course continues with proficiency oriented, comprehension based instruction. Students will continue to learn culture and language simultaneously in order to develop cultural awareness of Spanish speaking countries. Upon completion of this course, students will have expanded their base of frequently used words, be able to understand what they read and hear on a variety of topics, including topics in the past tense. A grade of C or higher is required to move on to Spanish 3.

SPANISH III

CREDIT: 1

REQUIRED: Spanish II

GRADE PLACEMENT: 11, 12

SEMESTER: Full Year

DESCRIPTION: This more advanced course still employs proficiency oriented, comprehension based instruction, as well as learning language and culture simultaneously. Students will be expanding their repertoire of frequently used words and phrases in Spanish, including more words and phrases in a variety of tenses, like past and future tense. Students will be able to understand what they read and hear about several intricate topics as well as analyze the information and express their opinion in Spanish. A grade of C or higher is required to move on to Spanish 4.

SPANISH IV

CREDIT: 1

REQUIRED: Spanish III

GRADE PLACEMENT: 12

SEMESTER: Full Year

DESCRIPTION: This advanced course still employs proficiency oriented, comprehension based teaching, as well as learning language and culture simultaneously. Students will expand the skills and vocabulary they have acquired in previous courses and be able to comprehend and use language in a variety of tenses and increasingly diverse and complex topics as they prepare themselves to continue their proficiency journey beyond high school

PHYSICAL EDUCATION, DRIVER EDUCATION, AND HEALTH CURRICULUM

PHYSICAL EDUCATION

CREDIT: .5

GRADE PLACEMENT: 9, 11, 12

SEMESTER: Full Year

DESCRIPTION: Interwoven through the entire program is physical fitness and establishment of carry-over value. The curriculum covers a wide spectrum of team oriented and individual sports. Activities include, but are not limited to flag football, speedball, soccer, basketball, badminton, floor hockey, volleyball, square dancing, track and field, softball, tennis, bowling, and fitness testing.

WEIGHTLIFTING

CREDIT: .5

GRADE PLACEMENT: 10, 11, 12

SEMESTER: Either

DESCRIPTION: This is an intensive training course. Classes will strictly follow the Bigger, Faster, Stronger program, which has been designed for the athletically inclined student. Activities include weight training, sprints, and cardiovascular endurance training. Males and females alike that participate regularly in extracurricular sports are highly encouraged to enroll.

STUDIO FITNESS

CREDIT: .5

GRADE PLACEMENT: 10, 11, 12

SEMESTER: Either

DESCRIPTION: This course would be a fitness based Physical Education class open to all students interested in maintaining or improving their physical, mental, and emotional wellness. This would not be a sports based class, nor will it require the use of the weight room. This class would incorporate a variety of other activities found in fitness centers. Some examples of these activities would include, but are not limited to, Pilates, yoga, kickboxing, dance fitness, and circuit training. This class would also be an avenue for incorporating information on nutrition and personal fitness goals as well. In addition, we could contact local fitness agencies and allow for them to come in and demonstrate classes to promote participation in physical activity outside of the school day.

DRIVER EDUCATION - CLASSROOM AND BEHIND THE WHEEL

CREDIT: .5

REQUIRED: Eligibility is granted to students who have received a passing grade in at least 8 courses during the previous two semesters.

GRADE PLACEMENT: 9 Semester II, 10

SEMESTER: Assigned by Birth Date

DESCRIPTION: To provide educational experiences which will give skill, knowledge, and proper attitudes necessary for efficient safety habits. There is a fee for this class. Parents may deny entry into this course until the student's 18th birthday.

HEALTH EDUCATION

CREDIT: .5 -REQUIRED COURSE

GRADE PLACEMENT: 10

SEMESTER: Either

DESCRIPTION: A course for all sophomores that covers the physical, mental, and social aspects of health with emphasis on behaviors that influence healthy lifestyles.

FINE ARTS CURRICULUM

Two years of fine arts is an entrance requirement at many colleges and universities.

CONCERT BAND

CREDIT: 1

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: Study of instrumental music literature in a wide range of styles including classical, jazz, popular and program music. Activities include 4 required concerts per year and various voluntary activities including Marching Indians Football Band, Renegade Regiment Competition Band, Jazz Bands, Solo and Ensemble work, Pep Band and the spring musical. ***There is a fee for Concert Band.***

PERCUSSION ENSEMBLE CLASS

CREDIT: 1

RECOMMENDATION: By Instructor

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: Percussion Ensemble Class is open to all music students. The class will perform in concerts as the percussion section of the Concert Band or Wind Ensemble as well as a percussion ensemble or in small groups. Students will receive instruction on rudimental snare drum, modern snare, 2 mallet technique, 4 mallet technique, timpani, bass drum and all other implements (triangle, cymbal, etc.). This class addresses the specific needs of percussion students and offers small group instruction on each percussion instrument and in various styles. Students will be assessed on note reading, ear training, posture/stick technique, rhythmic accuracy, technique, phrasing/style and ensemble contribution. ***PREREQUISITE: Instructor Approval***

WIND ENSEMBLE

CREDIT: 1

GRADE PLACEMENT: 10, 11, 12 by audition

SEMESTER: Full Year

DESCRIPTION: Study of advanced instrumental music literature in a wide range of styles. Activities include 4 required concerts per year and various voluntary activities including Marching Indians Football Band, Renegade Regiment Competition Band, Jazz Bands, Solo and Ensemble work, Pep Band and the spring musical. ***There is a fee for Wind Ensemble.***

ADVANCED TREBLE CHOIR

CREDIT: 1

GRADE PLACEMENT: 10, 11, 12 by audition

SEMESTER: Full Year

DESCRIPTION: Advanced Treble Choir is an auditioned group of treble singers from grades 10-12. This group is an SSAA ensemble and will sing an advanced level of treble music. Works performed will include all different genres, time periods, and languages. They will be expected to develop their knowledge of music theory, sight-reading, and history in class. In addition, there will be heavy emphasis on furthering their vocal development individually and as a group. Advanced Treble Choir is a graded group that meets during the school day.

CONCERT CHOIR

CREDIT: 1

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: Concert Choir will include students from all grade levels in the high school. They will sing music of varying levels of difficulty, with the focus being on development and growth throughout the year. Works performed will include all different genres, time periods, and languages. They will be expected to develop their knowledge of music theory, sight-reading, and history in class. In addition, there will be heavy emphasis on furthering their vocal development individually and as a group. Concert Choir is a graded course that meets during the school day.

PIANO 1

CREDIT: .5

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Semester

DESCRIPTION: Piano 1 is a one semester group piano class open to all students. This course is focused on learning beginning piano techniques and skills. Students will complete activities focused on basic music-reading skills as they apply to piano music. In order to practice individually, students will have access to their own piano during class.

PIANO 2

CREDIT: .5

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Semester

DESCRIPTION: Piano 2 is a one semester group piano class, and is offered every other year during the second semester. This course is focused on learning more advanced piano techniques and skills. Students will continue the study of music theory as it applies to reading piano music. In order to practice individually, students will have access to their own piano during class. ***PREREQUISITE: Piano 1***

MUSIC THEORY

CREDIT: 1

RECOMMENDATION: 1 Year in Band or Chorus at high school level

GRADE PLACEMENT: 11, 12

SEMESTER: Full Year

DESCRIPTION: Study of the basics of music writing and analysis. Content includes music fundamentals, harmony, ear training, and form. Course is very helpful in preparing students for college music department entrance exams (for music majors). **PREREQUISITE: Instructor Approval**

ART I-FUNDAMENTALS

CREDIT: 1

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: Study of the Fundamentals, Principles and Elements of Art and Art History. Activities include Shading/Value, Perspective, Figure Drawing, and Color Theory. Students may also be required to write Art History papers that abide by the MLA format.

ART II-CONCEPTS

CREDIT: 1

RECOMMENDATION: Consent of teacher and/or credit for Art I

GRADE PLACEMENT: 10, 11, 12

SEMESTER: Full Year

DESCRIPTION: Study of Painting using Color Theory, Monochromatic technique, Wash technique, Atmospheric perspective, and Art History. Students may also be required to write Art History papers that abide by the MLA format.

ART III-ADVANCED

CREDIT: 1

RECOMMENDATION: Consent of teacher and/or credit for Art II

GRADE PLACEMENT: 11, 12

SEMESTER: Full Year

DESCRIPTION: Study of Painting and 3-Dimensional Sculpture and Art History. Sculpture may consist of clay, plaster, wire, wood, and mixed media. Students may also be required to write Art History papers that abide by the MLA format.

ART IV-INDEPENDENT

CREDIT: 1

RECOMMENDATION: Consent of teacher and/or credit for Art III

GRADE PLACEMENT: 12

SEMESTER: Full Year

DESCRIPTION: Study of Drawing, Painting, Sculpture, Art History with a focus on personal style and portfolio development. Students may be required to complete independent assignments along with written Art History papers that abide by the MLA format.

ARTS, CRAFTS, AND CULTURE

CREDIT: .5

RECOMMENDATION: Consent of teacher and/or credit for Art III

GRADE PLACEMENT: 11, 12

SEMESTER: Semester

DESCRIPTION: This course is a craft based Art course intended for the students who are interested in the creative process, but not interested in the fine art aspect (drawing/painting). Students will learn about the art and crafts of various cultures while creating works of art. Students will get to experience working with a variety of different 2-dimensional and 3-dimensional mediums such as paint, clay, fabric, metal, wood, and yarn, while learning multiple studio techniques.

FAMILY & CONSUMER SCIENCES CURRICULUM

FOODS AND NUTRITION I

CREDIT: .5

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Either

DESCRIPTION: Elective course open to all students. This course includes basic classroom and laboratory experiences needed to develop knowledge and understanding of basic food principles and applied nutrition. Basic instruction on safety and sanitation, nutrition and health, social/cultural aspects, consumer skills, kitchen math, table setting and manners, meal management, food science and technology, and career options are introduced. A portion of the earned grade is determined by laboratory situations where students are required to demonstrate their knowledge of food preparation, safety and sanitation. **MUST PASS FOODS I TO BE ELIGIBLE FOR FOODS II.**

FOODS AND NUTRITION II

CREDIT: .5

REQUIRED: Foods I

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Either

DESCRIPTION: This class is open to students who have successfully completed and passed Foods and Nutrition I. In this second orientation level foods course, more attention is paid to food selection and preparation for special circumstances and dietary needs. The course includes in depth coverage of safety and the prevention of food-borne illnesses, nutrition through the lifespan, influences on food customs, current food and nutritional issues, kitchen math, food budgeting, food science and technology and career options. A portion of the earned grade is determined by laboratory situations where students are required to demonstrate their knowledge of food preparation, safety and sanitation. **MUST PASS FOODS II TO BE ELIGIBLE FOR FOODS III.**

FOODS AND NUTRITION III

CREDIT: .5

REQUIRED: Foods I and Foods II

GRADE PLACEMENT: 10, 11, 12

SEMESTER: Either

DESCRIPTION: Foods III further explores food preparation in areas such as regional foods, foreign foods, advanced pastries, advanced yeast breads, and food preservation. Students must have completed and passed Foods and Nutrition I and II with a C or better.

CLOTHING CONSTRUCTION I

CREDIT: .5

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Either

DESCRIPTION: Students must supply their own materials. The following highlights: 1) Familiarity with sewing machine; 2) 3 required sewing projects; 2) Clothing influences, customs, family influences and self-expression; 3) Fashion history and styles; 4) Clothing care; and 5) Principles of design

CLOTHING CONSTRUCTION II

CREDIT: .5

REQUIRED: Clothing Construction I

Not offered Yearly

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Either

DESCRIPTION: Clothing Construction II builds on the skills developed in Clothing Construction I and challenges the student to work with plaids and stripes etc., and more difficult patterns. Students must supply their own materials. Must pass Clothing Construction I first with a 'C' or better.

CLOTHING CONSTRUCTION III

CREDIT: .5

REQUIRED: Clothing Construction II

Not offered Yearly

GRADE PLACEMENT: 10, 11, 12

SEMESTER: Either

DESCRIPTION: Clothing Construction III is based on the sequence of skills developed in junior high home economics and Clothing Construction I and II. This advanced course allows the proficient seamstress to work with different fabrics and more complicated patterns. Students must supply their own materials. Must pass Clothing Construction I & II with a 'C' or better.

PARENTING

CREDIT: .5

GRADE PLACEMENT: 11, 12

SEMESTER: Either

DESCRIPTION: Open to all students. This course focuses on decisions relating to parenthood. It will cover topics such as when to have children, health practices, discipline, dealing with developmental stages, and how the parents' roles change. It also will look at concerns ranging from child abuse, substitute care, and education. Students are required to carry and tend "Baby-Think-It-Over" infant simulators for the equivalent of one weekend during the semester. We have rechargeable batteries so students are not required to supply replacement batteries for the "baby".

CHILD DEVELOPMENT

CREDIT: .5

GRADE PLACEMENT: 11, 12 (10, only if interested in enrolling in Childcare at IVVC)

SEMESTER: Second

DESCRIPTION: Open to all students. Areas to be covered in course are: prenatal/postnatal care of mother and child; the development of children from birth to age 5 (physical, social, and emotional developmental patterns); observation of children in different age groupings; special interest areas; and employment opportunities.

MARRIAGE & FAMILY LIVING

CREDIT: .5

GRADE PLACEMENT: 11, 12

Not offered Yearly

SEMESTER: Either

DESCRIPTION: Course open to all students. This course covers communication skills, coping with challenges, decision making/problem solving, family strength, handling responsibility, health and wellness, management skills, relationship skills, counseling resources, and values/goals.

BUSINESS EDUCATION CURRICULUM

The Business Education curriculum offers a variety of courses, which will enable the students to develop occupational knowledge, attitudes, and skills that are oriented around various job classifications. These occupations include clerical, secretarial, recordkeeping and accounting, and computer software skills. A recommended curriculum is outlined below for several career areas. None of the courses recommended are required for graduation; however, some employers will not hire an applicant for a particular job until certain minimum competencies are met.

OFFICE CAREERS: Keyboarding & Formatting I; Introduction to Business; Designing Web Pages for Business; Computer Applications; and Accounting

BUSINESS MANAGEMENT: Keyboarding & Formatting I; Introduction to Business; Computer Applications; Accounting; Marketing/Entrepreneurship; and Principles of Management

COMPUTER INFORMATION: Keyboarding & Formatting I; Computer Applications; Designing Web Pages for Business

KEYBOARDING & FORMATTING

CREDIT: .5

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Either

DESCRIPTION: This course is recommended for all students to learn how to type quicker and more efficiently. Students will learn correct placement of hands to increase words per minute and accuracy. All students will benefit from this for the duration of their high school career and beyond due to typing a majority of their assignments online. Students will use online software to learn to type better and utilize Google Docs/Microsoft Word to learn how to format. This use of software will also help students complete high school homework/essays more efficiently. This course is designed to help students master a keyboard and basic formatting skills used for all types of documents.

ACCOUNTING I

CREDIT: 1

GRADE PLACEMENT: 11, 12 (This class allows juniors & seniors to earn college credit at Waubensee Community College). Freshman and sophomores could take the class but would not be able to earn the Waubensee credit.

SEMESTER: Full Year

DESCRIPTION: This introductory accounting course emphasizes the development of a firm foundation in fundamental accounting procedures using the accounting cycle of a small business organized as a sole proprietorship. Topics include: transaction analysis, financial statements, the accounting cycle of service and merchandising firms, accounting for bank accounts, cash funds, accounts receivable, notes receivable, inventory, long-term assets, and introduction to accounting for corporations.

ACCOUNTING II

CREDIT: 1

GRADE PLACEMENT: 11, 12 (This class allows juniors & seniors to earn college credit at Waubensee Community College). Freshman and sophomores could take the class but would not be able to earn the Waubensee credit.

SEMESTER: Full Year

DESCRIPTION: The second year of accounting is offered as an extension of the first year plus introduction of new material. Topics will include the preparation of more detailed financial statements, departmental and branch accounting, accounting of manufacturing businesses, and partnership accounting.

PRINCIPLES OF MARKETING

Not offered Yearly

CREDIT: .5

GRADE PLACEMENT: 11, 12 (This class allows juniors & seniors to earn college credit at Waubensee Community College). Freshman and sophomores could take the class but would not be able to earn the Waubensee credit.

SEMESTER: Either

DESCRIPTION: Business free market activities related to the distribution of goods and services are studied with an emphasis on marketing strategy, the marketing mix, pricing, distribution channels, promotion, product development, consumer behavior and global marketing.

INTRODUCTION TO ENTREPRENEURSHIP

Not offered Yearly

CREDIT: .5

GRADE PLACEMENT: 11, 12 (This class allows juniors & seniors to earn college credit at Waubensee Community College). Freshman and sophomores could take the class but would not be able to earn the Waubensee credit.

SEMESTER: Either

DESCRIPTION: This course exposes students to the entrepreneurial experience and perspective, the role of entrepreneurship and its impact on organizations of all types and society-at-large. Included are case studies of both failed and successful ventures and a look at current economic needs and trends.

COMPUTER APPLICATIONS

CREDIT: .5

REQUIRED: None

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Either (Students can take this course more than one time)

DESCRIPTION: Computer Applications gives students hands-on experience with **Google Drive (Docs, Sheets, Slides, Forms, Drawings)**. Students will learn necessary skills to help with typing papers/projects for high school and college.

INTRODUCTION TO BUSINESS (VALEES #12001A001)

CREDIT: .5

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Either

DESCRIPTION: This course is an introduction to business theory and practice. Topics include entrepreneurship, private enterprise, the global marketplace, marketing theory, organization of management, and government influence in economic systems. Students will do projects of: starting a business, writing a business plan, and creating a product. This class is good for any student interested in business or looking to learn about basic business.

DESIGNING WEB PAGES FOR BUSINESS

CREDIT: .5

GRADE PLACEMENT: 9, 10, 11, 12

SEMESTER: Either

DESCRIPTION: This course is designed to help students learn how to create websites from scratch or from a template. Students will learn some programming and designing skills. Students will also learn photo and video editing, including green screen. Students could take the class a second time to learn more software and do more projects related to coding, app making, and graphic design.

CONSUMER EDUCATION - REQUIRED COURSE FOR GRADUATION

CREDIT: .5

GRADE PLACEMENT: 11, 12 (limited amount of juniors may be allowed to take as space allows)

SEMESTER: Either

DESCRIPTION: Consumer education is a required course for graduation from Sandwich High School. It covers topics including, but not limited to: housing, transportation, consumer rights, installment purchasing, budgeting, and comparison of prices. It is the study of the knowledge needed to choose, to spend, and to conserve resources, goods, and services.

INDIAN VALLEY VOCATIONAL CENTER

CREDIT: 3

RECOMMENDATION: Some courses have prerequisites

GRADE PLACEMENT: 11, 12

SEMESTER: Full Year

DESCRIPTION: IVVC offers 5 career clusters - **Skilled Trades** (Auto Body Repair I & II, Automotive Technology I & II, Aviation Mechanics, Construction Trades I & II, Welding & Fabrication I & II), **Health Science** (Certified Nurse Assistant, Health Occupations, Sports Medicine I & II), **Technology** (Computer Programming I & II, Computer Technology I & II, Graphic Design I & II), **Public Safety** (Emergency Medical Services, Fire Science I & II, Law Enforcement I & II) and **Human Services** (Cosmetology I & II, Culinary Arts I & II, Esthetics & First Aid, Teaching Methods I & II).

Students enrolled in all IVVC programs will be expected to participate in routine physical activities on a daily basis that will foster the development of movement skills and enhance health-related fitness.

Each class meets one 2-1/2 hour time block 5 days per week.

***See your school counselor for more information regarding the programs that offer articulated and/or dual credit**

AUTO BODY REPAIR I

Grades: 11, 12

SIS#: 20116A001

Auto Body I is the first year of a two-year sequence.

Units of study – Industry careers, parts of the vehicle, tools and their uses, basic repairs and painting, panel replacement, plastic repair and basic welding.

Tasks you will complete:

- Review work orders and create repair plans
- Clean and detail vehicle for customer delivery
- Communicate with instructor and students regarding repairs
- Prepare areas for repair
- Prime and paint repaired surfaces
- Wet sand and buff vehicles

Skills/abilities you need to be successful – mechanical aptitude, active listening, complex problem solving, and critical thinking.

Certification you may eligible to receive upon successful completion:

- SP/2 Safety Certification

Related careers – Auto Body Technician, Refinish Technician (painter), Insurance Adjuster, Paint Company Representative, Vocational/Technical Instructor, Salvage Yard Technician, Dealership Parts Counter Person

AUTO BODY REPAIR II

Grade: 12

Required: 70% or higher in Auto Body Repair I

SIS#: 20116A002

Auto Body II is the second year of a two-year sequence

Units of study – Industry careers, parts of the vehicle, tools and their uses, basic repairs and painting, panel replacement, plastic repair, basic welding, estimating and custom paint techniques.

Tasks you will complete:

- Review work orders and create repair plans
- Communicate with instructor and students regarding repairs
- Work as job lead to complete repairs
- Prime and paint repaired surfaces
- Match and blend colors for proper finish
- Masking vehicles
- Vehicle preparation for final paint
- Estimating repairs and costs

Skills/abilities you need to be successful – mechanical aptitude, active listening, complex problem solving and critical thinking.

Certification you may be eligible to receive upon successful completion:

- SP/2 Safety Certification

Related careers – Auto Body Technician, Refinish Technician (painter), Insurance Adjuster, Paint Company Representative, Vocational/Technical Instructor, Salvage Yard Technician, Dealership Parts Counter Person

Articulated Credit – WCC ABR 115 – Basic Auto Repair (4 credits)

AUTOMOTIVE TECHNOLOGY I

Grades: 11, 12

SIS#: 20104A001

Automotive Technology I is the first year of a two-year sequence.

Units of study – Basic automotive repair for tires, brakes, steering, electrical, suspension and alignments through classroom and practical shop exercises.

Tasks you will complete:

- Identify basic hand tools and shop equipment
- Proper setup and operation of automotive lifting equipment
- Removal and installation of wheels and tires
- Repairing brake systems including replacement of worn out parts
- Identifying steering system types and related components
- Identify types of suspension systems and their components
- Performing front and four wheel alignment

Skills/abilities you need to be successful – effective communication skills, ability to follow instructions, ability to work as part of a team, problem-solving skills, patience and confidence, mechanical aptitude, ability to adapt to change.

Certification you may be eligible to receive upon successful completion:

- SP/2 Safety Certification

Related careers – Automotive Service Technician, Automotive Service Writer, Auto Parts Counter Person

Articulated Credit – KCC AMT 131– Automotive Steering and Suspension (3 credits)

AUTOMOTIVE TECHNOLOGY II

Grade: 12

Required: 70% or higher in Automotive Technology I

SIS#: 20104A002

Automotive Technology II is the 2nd year of a two-year sequence.

Units of study – Basic engine repair, basic engine performance and diagnostic skills including use of scan tool, automatic transmission identification and proper maintenance, basic heating and air conditioning diagnosis and repair, manual drive train identification and maintenance.

Tasks you will complete:

- Basic engine teardown, parts identification and reassembly
- Automatic transmission maintenance and basic repairs
- Scan tool operation and basic engine performance diagnosis, including retrieving engine fault codes
- Inspect and replace hub bearings
- Service rear differential
- Perform cooling systems service and thermostat replacement
- Identify air conditioning components and learn basic theory of operation
- Perform engine compression and leak down test
- Remove and replace spark plugs
- Inspect and test relays

Skills/abilities you need to be successful – deductive reasoning, able to make decisions and problem solve, mechanical aptitude, knowledge of tools, hand and electrical diagnostic tools, and meters, troubleshooting.

Certification you may be eligible to receive upon successful completion:

- SP/2 Safety Certification

Related careers – Automotive Service Technician, Automotive Service Advisor, Automotive Service Manager, Warranty Administrator, Field Service Engineer, Automotive Mechanical Engineer, Automotive Electrical Engineer, Parts Professional, Dealership Parts Manager, Dealership Salesperson, Dealership General Manager

Articulated Credit – WCC AUT 100 – Maintenance and Light Repair (2 credits)

KCC AMT 125 – Automotive Braking Systems (3 credits)

AVIATION MECHANICS (at Lewis University)

Grade: 12

SIS#: 20113A001

***Fall Semester – Aviation Fundamentals**

Students will complete theory instruction online at IVVC (2 days per week) and will attend Lewis University in Romeoville for lab instruction (3 days per week).

Units of study – Aerodynamics, aircraft design, stability, control, Federal Aviation Administration regulations and publications, weight and balance and ground handling of aircraft.

***Spring Semester – Aircraft Structures I**

Students will complete theory instruction online at IVVC (1 day per week) and will attend Lewis University in Romeoville for lab instruction (4 days per week).

Units of study – Riveting and sheet metal repair, including aluminum, forming and layout and oxyacetylene welding operation, corrosion and corrosion control.

*Students may register for both fall and spring semesters or either fall or spring semester.

Required academic qualifications:

- Counselor recommendation
- Minimum 3.0 GPA
- Algebra I and II with a grade of C or higher or concurrent enrollment
- Physics with a grade of C or higher or concurrent enrollment
- High level of motivation and adequate time to devote to studying a college-level course

Related careers – Aviation Maintenance Technician, Flight Operator, Crew Scheduler, Aircraft Maintenance Director, Aircraft Maintenance Supervisor, Airline marketing professionals, Aircraft parts sales

Dual Credit – Lewis University – AVMT-10600 Aviation Fundamentals (4 credits)
AVMT-11000 Aircraft Structures I (4 credits)

CONSTRUCTION TRADES I

Grades: 11, 12

SIS#: 17002A001

Construction Trades I is the first year of a two-year sequence.

Units of study – The design process, shop & tool safety, construction terminology, construction methods and techniques, building codes & covenants, CAD (Computer Aided Drafting), customized designs for clients, cost estimating, surveying & excavation, basic framing principles, basic exterior finishing principles, basic electrical principles, basic HVAC principles, basic plumbing principles.

Tasks you will complete:

- Follow established safety rules/regulations and maintain a safe and clean environment
- Study specifications in blueprints, sketches, or building plans to prepare project layout and determine

- dimensions and materials required
- Measure and mark cutting lines on materials, using a ruler, pencil, chalk and marking gauge
- Select and order lumber or other required materials

Skills/abilities you need to be successful – hard work ethic, ability to work in hot/cold weather and able to handle physically demanding work, ability to work as part of a team, adaptability and flexibility, sound judgment, courage, decisiveness, quick reactions and the ability to stay calm in difficult circumstances, willingness and ability to learn.

Certification you may be eligible to receive upon successful completion:

- OSHA 10 Safety Training

Related careers – Architect, Carpenter, CAD Technician, Designer, Electrician, HVAC Technician, Plumber, Various construction trades careers

Dual Credit – WCC CMT 101 – The Construction Industry (3 credits)

CONSTRUCTION TRADES II

Grade: 12

Required: 70% or higher in Construction Trades I

SIS#: 17002A002

Construction Trades II is the second year of a two-year sequence.

Units of study – Shop & tool safety, construction terminology, advanced construction methods and techniques, building codes & covenants, CAD (Computer Aided Drafting), customized designs for clients, cost estimating, surveying & excavation, advanced framing principles, advanced exterior finishing principles, advanced electrical principles, advanced HVAC principles, advanced plumbing principles, job shadowing opportunities, internship possibilities.

Tasks you will complete:

- Follow established safety rules/regulations and maintain a safe and clean environment
- Study specifications in blueprints, sketches, or building plans to prepare project layout and determine dimensions and materials required
- Measure and mark cutting lines on materials, using a ruler, pencil, chalk and marking gauge
- Select and order lumber or other required materials
- Lead a team of students in construction projects

Skills/abilities you need to be successful – hard work ethic, ability to work in hot/cold weather and able to handle physically demanding work, ability to work as part of a team, adaptability and flexibility, sound judgment, courage, decisiveness, quick reactions and the ability to stay calm in difficult circumstances, willingness and ability to learn.

Certification you may be eligible to receive upon successful completion:

- OSHA 10 Safety Training

Related careers – Architect, Carpenter, CAD Technician, Designer, Electrician, HVAC Technician, Plumber, Various construction trades careers

Dual Credit – WCC CMT 105 – Print Reading for Construction (3 credits)

WELDING & FABRICATION I

Grades: 11, 12

SIS#: 13207A001

Welding & Fabrication I is the first year of a two-year sequence.

Units of study – Shop safety, MIG welding, oxy acetylene welding, shielded metal arc welding, stick welding, blueprint reading, layout and fabrication processes.

Tasks you will complete:

- Weld components in flat and horizontal positions
- Operate safety equipment and use safe work habits
- Lay out, position, align and secure parts and assemblies prior to assembly, using straightedges, combination squares, calipers and rulers
- Recognize, set up and operate hand and power tools common to the welding trade, such as shielded metal arc and gas metal arc welding equipment
- Select and install torches, torch tips, filler rods, and flux, according to welding chart specifications or types and thicknesses of metals.
- Ignite torches or start power supplies and strike arcs by touching electrodes to metals being welded, completing electrical circuits
- Analyze engineering drawings, blueprints, specifications, sketches, work orders and material safety data sheets to plan layout, assembly and welding operations
- Chip or grind off excess weld, slag, or spatter, using hand scrapers or power chippers, portable grinders or arc-cutting equipment
- Remove rough spots from work pieces, using portable grinders, hand files or scrapers
- Prepare all material surfaces to be welded, ensuring that there is no loose or thick scale, slag, rust, moisture, grease or other foreign matter
- Dismantle metal assemblies or cut scrap metal, using thermal-cutting equipment, such as flame-cutting torches or plasma-arc equipment

Skills/abilities you need to be successful – respectful & highly motivated, ability to follow instructions, ability to work as part of a team, problem-solving skills, willingness and ability to learn, hand and eye coordination, very detail oriented and organized, ability to work independently in the shop, dependability, manual dexterity, mathematics/measuring.

Certification you may be eligible to receive upon successful completion:

- OSHA – 10 Safety Certification

Related careers – Ironworker, Pipefitter, Boilermaker, Assembler/Fabricator, Steam Fitter, Machinist, Tool and Die Maker, Sheet Metal Worker, Underwater Welder, Maintenance Welder, Sub Arc Operator, Construction Worker, Machine Operator

Dual Credit – WLD 101 – Blueprint Reading (3 credits)

Articulated Credit – KCC WT 116 – Fundamental Welding Process (2 credits)

WELDING & FABRICATION II

Grade: 12

Required: 70% or higher in Welding & Fabrication I

SIS#: 13207A002

Welding & Fabrication II is the second year of a two-year sequence.

Units of study – Overhead and vertical welding positions, variable diameter and thicknesses of pipe, specialized TIG welding processes in aluminum and stainless steel.

Tasks you will complete:

- Weld components in flat, horizontal, vertical and overhead positions
- Operate safety equipment and use safe work habits
- Select and install torches, torch tips, filler rods and flux, according to welding chart specifications or types and thicknesses of metals
- Analyze engineering drawings, blueprints, specifications, sketches, work orders and material safety data sheets to plan layout, assembly and welding operations
- Clamp, hold, tack-weld, heat-bend, grind or bolt component parts to obtain required configurations and positions for welding
- Determine required equipment and welding methods, applying knowledge of metallurgy, geometry and welding techniques
- Monitor the fitting, burning and welding processes to avoid overheating of parts or warping, shrinking, distortion or expansion of material
- Operate manual or semi-automatic welding equipment to fuse metal segments, using processes such as gas tungsten arc, gas metal arc, flux-cored arc, plasma arc, shielded metal arc, resistance welding and submerged arc welding
- Analyze engineering drawings, blueprints, specifications, sketches, work orders and material safety data sheets to plan layout, assembly and welding operations
- Develop templates and models for welding projects, using mathematical calculations based on blueprint information
- Repair products by dismantling, straightening, reshaping and reassembling parts, using cutting torches, straightening presses and hand tools
- Calculate dimensions or tolerances, using instruments such as micrometers or vernier calipers
- Machine parts to specifications, using machine tools, such as lathes, milling machines, shapers or grinders

Skills/abilities you need to be successful – respectful & highly motivated, ability to follow instructions, ability to work as part of a team, problem-solving skills, willingness and ability to learn, hand and eye coordination, very detail oriented and organized, ability to work independently in the shop, dependability, manual dexterity, mathematics/measuring.

Certification you may be eligible to receive upon successful completion:

- OSHA – 10 Safety Certification

Related careers – Ironworker, Pipefitter, Boilermaker, Assembler/Fabricator, Steam Fitter, Machinist, Tool and Die Maker, Sheet Metal Worker, Underwater Welder, Maintenance Welder, Sub Arc Operator, Construction Worker, Machine Operator.

Dual & Articulated Credit – WLD 125- Gas Metal Arc & Flux Cored Arc Welding (3 credits)

Articulated Credit – WCC WLD 100 – Survey of Welding (3 credits)

WLD 115 – Oxy Fuel Welding & Cutting (3 credits) WLD 120 – Shielded Metal Arc Welding I (3 credits)

CERTIFIED NURSE ASSISTANT

Grades: 11, 12

Prerequisite: Good attendance record

SIS#: 14051A001

Certified Nurse Assistant is a stand-alone one-year program

Units of study – Healthcare system, communication, infection control, safety, bed making, admission/discharge/transfers, growth and development, nutrition, body systems, positioning/transferring residents, patients with special needs, death and dying, dementia, home health, rehabilitation

Tasks you will complete:

- Perform 21 required CNA skills
- Clinical experience at local nursing home
- Provide physical support to assist nursing home residents to perform daily living activities, such as getting out of bed, bathing, dressing, using the toilet, standing, walking or exercising
- Measure and record food and liquid intake or urinary and fecal output, reporting changes to nursing staff
- Record vital signs, such as temperature, blood pressure, pulse or respiration rate
- Lift or assist others to lift patients to move them on or off beds
- Record height and weight of patients
- Change bed linens or make beds
- Wash, groom, or shave nursing home residents to prepare them for surgery, treatment, or examination

Skills/abilities you need to be successful – service orientation, active listening, social perceptiveness, critical thinking, reading/oral comprehension, static strength, reasoning, flexibility, arm-hand steadiness.

Certification you may be eligible to receive upon successful completion:

- Illinois Department of Public Health Certified Nursing Assistant
- CPR – Healthcare Provider card

Related careers – Registered Nurse, Licensed Practical Nurse, Phlebotomist, Med Tech, Vet Tech, Dental Assistant, Dental Hygienist, Medical Assistant, Surgical Tech, Surgical Assistant, X-ray Tech, Occupational Therapy Assistant, Counselor, Social Worker, Physical Therapy Assistant, Massage Therapist, Dietary Aide, Respiratory Therapy, Pharmacy Tech

Articulated Credit – WCC NAS 101 – Basic Nurse Assistant Training (6 credits) KCC NUR 100 – Basic Nurse Assistant Training (7 credits)

HEALTH OCCUPATIONS

Grades: 11, 12

SIS#: 14002A002

Health Occupations is a stand-alone one year course.

Units of study – Infection control, safety, CPR, medical terminology, healthcare communication, legal issues/ethics, basic anatomy, nutrition in healthcare.

Tasks you will complete:

- Job Shadowing of various local healthcare facilities including hospital departments – OB, Med-Surg units, Diagnostic Imaging, Surgical, ER; dental offices, veterinary clinics, EMT ride alongs
- Vital Signs
- Medical Terminology
- Communicating effectively in a healthcare setting

Skills/abilities you need to be successful – work well in a team based atmosphere, active listening, effective communication skills, and display professionalism.

Certification you may be eligible to receive upon successful completion:

- CPR certification

Related careers – CNA, RN, Phlebotomist, Med Tech, Vet Tech, Dental Assistant, Dental Hygienist, Medical Assistant, Surgical Tech, Surgical Assistant, X-ray Tech, Occupational Therapy Assistant, Counselor, Social Worker, Physical Therapy Assistant, Massage Therapist, Dietary Aide, Respiratory Therapy, Pharmacy Tech

Dual Credit – WCC HIT 110 – Medical Terminology (3 credits)

Articulated Credit – KCC OS 216 – Medical Terminology (3 credits)

SPORTS MEDICINE I

Grades: 11, 12

Recommended: 70% or higher in Biology I, genuine interest in Science

SIS#: 14062A001

Sports Medicine I is the first year of a two-year sequence.

Units of study – History of Sports Medicine, careers in Sports Medicine, sport law, confidentiality, insurance, anatomical terminology & direction, emergency treatment in sport, injury, illness & healing, documentation, lower extremity injuries, axial injuries, upper extremity injuries, basic nutrition, introduction to Exercise Science concepts, fitness concepts.

Tasks you will complete:

- Demonstrate an understanding of the musculoskeletal system and its components
- CPR & first aid treatments
- Taping of the foot, ankle, knee, hand, wrist, thumb & fingers
- Supportive wrapping of the knee, hip and shoulder
- Crutch and sling fitting
- Conduct an initial assessment of an athlete's injury or illness to provide emergency or continued care
- Follow basic fitness guidelines
- Demonstrate proper technique in various exercises

Skills/abilities you need to be successful – active listening, critical thinking, monitoring, speaking, active learning, deductive reasoning, oral comprehension.

Certification you may be eligible to pursue upon successful completion:

- CPR – Heartsaver card

Related careers – Certified Athletic Trainer, Physical Therapist & Assistant, Occupational Therapist & Assistant, Fitness Instructor, Personal Trainer, Nurse, Sports Medicine Physician, Chiropractor

****Most of these occupations require post-secondary education**

Dual Credit – WCC KPE 150 – Basic Prevention & Care of Athletic Injuries (3 credits)

Articulated Credit – WCC KPE 150 – Basic Prevention & Care of Athletic Injuries (3 credits)

SPORTS MEDICINE II

Grade: 12

Required: 70% or higher in Sports Medicine I, genuine interest in Sports Med career

SIS#: 14062A001

Sports Medicine II is the second year of a two-year sequence.

****Students will participate in an internship rotation. Must have reliable transportation****

Units of study – Anatomy review, advanced medical terminology, basic exercise physiology concepts, advanced evaluation/assessment techniques, personal training client assessment, program design, therapeutic modalities.

Tasks you will complete:

- Apply practical skills mastered in SM I at internship sites
- Identify and use proper medical terminology in workplace
- Demonstrate accountability and responsibility through internship
- Facilitate communication between IVVC, home school and internship
- Abide by all internship policies and procedures
- Show a clear path of steps after high school
- Demonstrate a deeper knowledge of exercise science
- Prepare a professional resume
- Participate in mock interviews

Skills/abilities you need to be successful – active listening, critical thinking, monitoring, self-initiative, active learning, deductive reasoning, oral comprehension, time management, superb communication.

Certification you may be eligible to pursue upon successful completion:

- Personal Training Certification (18 and older)

Related careers – Certified Athletic Trainer, Physical Therapist & Assistant, Occupational Therapist & Assistant, Fitness Instructor, Personal Trainer, Nurse, Sports Medicine Physician, Chiropractor

****Most of these occupations require post-secondary education**

Dual & Articulated Credit:

WCC KPE 237 – Strength and Conditioning Principles (3 credits)

WCC KPE 209 - Introduction to Exercise Science & Sports Professions (3 credits)

COMPUTER PROGRAMMING I

Grades: 11, 12

SIS#: 10152A001

Computer Programming I is the first year of a two-year sequence.

Units of study – Linear programs, decisions, loops, lists, data structures, functions

Tasks you will complete:

- Master fundamental coding concepts such as statements, variables, expressions, conditionals, and loops
- Plan and track the progress of large coding projects, debug errors, and improve the readability of code
- Gain proficiency with advanced topics including software libraries, automation, and sprite-based

- graphics
- Master fundamental data structures such as lists, tuples, and dictionaries
- Gain proficiency with advanced topics including loops, string operations, web APIs, and user-defined functions
- Learn industry practices such as pair programming, code reviews, and role- based project development

Skills/abilities you need to be successful – participation in all projects, work well within a team, understanding of algebraic concepts and algorithms, good note taking skills and analytical thinking.

Certification you may be eligible to receive upon successful completion:

- PCEP- Certified Entry-Level Python Programmer certification (Exam PCEP-30-0x)

Related careers – Computer/Electrical Engineering, Computer Programmer (C++, Java, Python), Game Environment Developer, Unreal Engine Developer, 3D/2D Model Designer, Blender Developer, Data Entry, Word Processor, Office Management Systems

COMPUTER PROGRAMMING II

Grade: 12

Required: 70% or higher in Computer Programming I

SIS#: 10152A002

Computer Programming II is the second year of a two-year sequence.

Units of study – Files, project structure, object orientation, careers in Python, capstone project

Tasks you will complete:

- Master object-oriented programming concepts through the use of classes and domain-driven design
- Explore several different possible future paths for study and careers in computer science including web development, data science, and cybersecurity
- Research the effects of technology on society and investigate how to build software with a goal of solving social problems

Skills/abilities you need to be successful – participation in all projects, work well within a team, understanding of algebraic concepts, being able to type for extended periods of time, good note taking skills, good listener.

Certification you may be eligible to receive upon successful completion:

- PCAP -Certified Associate in Python Programming certification (Exam PCAP-31-0x)

Related careers – Computer/Electrical Engineering, Computer Programmer (C++, Java, Python), Game Environment Developer, Unreal Engine Developer, 3D/2D Model Designer, Blender Developer, Data Entry, Word Processor, Office Management Systems

COMPUTER TECHNOLOGY I

Grades: 11, 12

SIS#: 10252A001

Computer Technology I is the first year of a two-year sequence.

Units of study – Desktop, laptop and PC technology, computer components, basic wired and wireless technologies, function and installation of data networks and components.

Tasks you will complete:

- Identify internal computer hardware and components
- Format hard drives and install operating systems
- Identify all types of networks and how to install them
- Diagnose and repair problems with all devices and networks

Skills/abilities you need to be successful – reading skills, basic math skills, written and verbal communication skills, basic knowledge of technology.

Certification you may be eligible to receive upon successful completion:

- A+ Hardware certification COMP-TIA

Related careers – Technology Help Desk Technician, Hardware Technician, Network Engineer, Systems Administrator, Network Security Administrator

Articulated Credit - WCC CIS 105 – Introduction to Windows (1 credit)

COMPUTER TECHNOLOGY II

Grade: 12

Required: 70% or higher in Computer Technology I

SIS#: 10252A002

Computer Technology II is the second year of a two-year sequence.

Units of study –Computer Technology II students will choose from several major subject areas in the TestOut curriculum: Microsoft Office Library Suite, Networking Professional, Linux Professional, Network Security Professional, Cyber Defense Professional, Ethical Hacking Defense Professional, Client and Server Professional, and PC Technician Professional.

Tasks you will complete:

- All tasks are in an online virtual workbench format.
- After each student has successfully completed all online tasks, labs, and tests, they will receive a voucher of course completion, and qualify to sit for the certification exam.

Skills/abilities you need to be successful- reading skills, basic math skills, written and verbal communication skills, basic knowledge of technology.

Certification you may be eligible to receive upon successful completion:

- TestOut Pro Certification
- COMP-TIAA + Hardware/Network certification

Related careers – Technology Help Desk Technician, Hardware Technician, Network Engineer, Systems Administrator, Network Security Administrator, Cyber Security specialist

GRAPHIC DESIGN I

Grades: 11, 12

SIS#: 11154A001

Graphic Design I is the first year of a two-year sequence.

Units of study – Basic computer use, basic illustrating software (Illustrator), photo editing software (Photoshop, Bridge), publishing software (InDesign), basic equipment use for mock-up tools, presentation tools, vinyl cutter, vinyl and heat transfer equipment, basic use of a digital camera.

Tasks you will complete:

- Determine arrangement of illustrative material and select style and size of type
- Create designs, concepts, and sample layouts, based on knowledge of layout principles and color theory
- Develop graphics and layouts for product illustrations
- Use computer software to generate new images
- Use computer software to edit photographs
- Review final layouts and suggest improvements as needed to peers
- Maintain organized portfolio of images, photos or previous work products
- Prepare illustrations or rough sketches of material
- Use digital cameras, filters and tripods
- Determine desired images and picture composition, selecting and adjusting subjects, equipment and lighting to achieve desired effects
- Adjust apertures, shutter speeds, and camera focus based on a combination of factors such as lighting, field depth and subject motion
- Transfer photographs to computers for editing, archiving and electronic transmission

Skills/abilities you need to be successful – active listening, critical thinking, speaking in front of peers/clients, group work, reading comprehension, active learning, decision making, time management, following instructions, creativity, coordination.

Related careers – Advertising, Desktop Publisher, Art Director, Photographer, Multimedia Artist, Project Management, Promotions Manager, Artist, Creative Director, Creative Manager, Design Director, Designer, Graphic Artist, Graphic Designer, Online Producer, Production Artist, Publications Designer

GRAPHIC DESIGN II

Grade: 12

Required: 70% or higher in Graphic Design I

SIS#: 11154A002

Graphic Design II is the second year of a two-year sequence.

Units of study – Computer use, advanced illustration software (Illustrator), photo editing software (Photoshop), publishing software (InDesign), equipment use for mock-up tools, presentation tools, vinyl cutter, vinyl and heat transfer equipment, advanced use of a digital camera, customer service.

Tasks you will complete:

- Determine arrangement of illustrative material and select style and size of type
- Confer with clients to discuss and determine job specifications
- Create designs, concepts and sample layouts, based on knowledge of layout principles and color theory

- Develop graphics and layouts for product illustrations
- Use computer software to generate new images
- Use computer software to edit photographs
- Review final layouts and suggest improvements as needed to peers
- Maintain organized portfolio of images, photos or previous work products
- Prepare illustrations or rough sketches of material, discuss with clients or instructors and make necessary changes.
- Draw and print illustrations and other artwork using computer
- Research new software or design concepts
- Study illustrations and photographs to plan presentation of materials, products or services (when necessary)
- Act as a mentor/role model to first year students
- Use digital cameras, filters and tripods
- Determine desired images and picture composition, selecting and adjusting subjects, equipment and lighting to achieve desired effects
- Adjust apertures, shutter speeds and camera focus based on a combination of factors such as lighting, field depth and subject motion
- Transfer photographs to computers for editing, archiving and electronic transmission

Skills/abilities you need to be successful – active listening, critical thinking, speaking in front of peers/clients, group work, reading comprehension, active learning, decision making, time management, following instructions, creativity, coordination.

Related careers – Advertising, Desktop Publisher, Art Director, Photographer, Multimedia Artist, Project Management, Promotions Manager, Artist, Creative Director, Creative Manager, Design Director, Designer, Graphic Artist, Graphic Designer, Online Producer, Production Artist, Publications Designer

Dual Credit: COD DRDSN1101- Digital Graphic Applications (3 credits)

EMERGENCY MEDICAL RESPONDER

Grades: 11, 12

SIS#: 14002A003

Emergency Medical Responder is a stand-alone junior or senior program but can also be part of the Emergency Medical Services two-year sequence.

Units of study – EMS professional culture, workforce safety and wellness, communications, anatomy and physiology, patient assessment and stabilization, airway management, emergency preparedness and disaster planning.

Tasks you will complete:

- Treat medical emergencies
- Inform medical professionals regarding patient conditions and care
- Monitor patient progress or responses to treatments
- Record patient medical histories
- Prepare plans that outline operating procedures to be used in response to disasters or emergencies, such as hurricanes, nuclear accidents, and terrorist attacks and in recovery from these events
- Ride-alongs with local fire departments

Skills/abilities you need to be successful – effective communication skills, integrity, composure and a reassuring manner, ability to follow instructions, ability to work as part of a team, problem-solving skills, patience, understanding and sensitivity, confidence and resilience, adaptability and flexibility, sound judgment, courage, decisiveness, quick reactions and the ability to stay calm in difficult circumstances, critical thinking.

Certification you may be eligible to receive upon successful completion:

- American Heart Association BLS CPR
- FEMA NIMS (National Incident Management System) 100: Introduction to the Incident Command System; NIMS 200 ICS (Incident Command System) for Single Resources and Initial Action Incidents; NIMS 700: National Incident Management System, An Introduction; NIMS 800: National Response Framework, An Introduction; NIMS IS 5: An Introduction to Hazardous Materials
- NREMT Emergency Medical Responder Certification
- National Fallen Firefighters “Courage to be Safe” Certification

Dual Credit: JJC EMS 101 - First Responder (4 credits)

EMERGENCY MEDICAL TECHNICIAN

Grade: 12

SIS#: 14055A001

Emergency Medical Technician is a stand-alone senior only program but can also be part of the Emergency Medical Services two-year sequence.

Units of study – EMS professional culture, workforce safety and wellness, medical, legal and ethical issues, communications, anatomy and physiology, medical terminology, patient assessment, trauma management, medical emergency management, pharmacology, airway management, shock management and resuscitation, EMS operations and the team approach to health care.

Tasks you will complete:

- Treat medical emergencies
- Operate diagnostic or therapeutic medical instruments or equipment
- Inform medical professionals regarding patient conditions and care
- Monitor patient progress or responses to treatments
- Record patient medical histories
- Analyze patient data to determine patient needs or treatment goals
- Administer non-intravenous medications
- Clinical experience at local emergency room
- Ride-alongs with local fire departments

Skills/abilities you need to be successful – effective communication skills, integrity, composure and a reassuring manner, ability to follow instructions, ability to work as part of a team, problem-solving skills, patience, understanding and sensitivity, confidence and resilience, adaptability and flexibility, sound judgment, courage, decisiveness, quick reactions and the ability to stay calm in difficult circumstances, critical thinking.

Certification you may be eligible to receive upon successful completion:

- American Heart Association BLS CPR
- IL State EMT-B License or NREMT Certification
- National Fallen Firefighters “Courage to be Safe” Certification

Related careers – ER Tech, Medical Assistant, Paramedic, Firefighter, Nurse, Physician Assistant

Articulated Credit – WCC EMT 120 – Emergency Medical Technician – Basic (9 credits)

FIRE SCIENCE I

Grades: 11, 12

SIS#: 15152A001

Fire Science I is the first year of a two-year sequence.

Units of study – OSFM Basic Operations Firefighter curriculum: cognitive and psychomotor components to Basic Operations Firefighter, Fire Service Vehicle Operator, Technical Rescue Awareness, Basic First Aid, AHA CPR and AED and NIMS 100 and 700.

Tasks you will complete:

- Function safely and ethically as a basic firefighter within the organization of the fire department
- Identify hazards and take proper safety measures to operate at an emergency scene by applying knowledge of fire behavior, building construction, and communications
- Safely and effectively operate in an IDLH atmosphere using self-contained breathing apparatus
- Use a portable extinguisher to properly extinguish all classes of fire
- Use various types of ropes and knots in an emergency scene setting
- Utilize the proper fire hose, appliances, nozzles, stream and water supply to extinguish fires
- Gain access to structures to perform rescues through proper forcible entry and ladder usage
- Properly ventilate a structure to facilitate rescues and fire extinguishment using ladders and ventilation tools and techniques
- Perform a scene size-up considering risk and savable victims and use proper technique to search a structure and remove victims
- Apply the techniques of fire extinguishment including wildland fires from both an offensive and defensive attack
- Describe the role of fire prevention and fire protection systems on public safety
- Utilize knowledge of situational awareness, rapid intervention teams and scene hazards to operate safely and survive on the fire ground

Skills/abilities you need to be successful – effective communication skills, integrity, composure and a reassuring manner, ability to follow instructions, ability to work as part of a team, problem-solving skills, patience, understanding and sensitivity, confidence and resilience, adaptability and flexibility, sound judgment, courage, decisiveness, quick reactions and the ability to stay calm in difficult circumstances, willingness and ability to learn on a continued basis, interest in promoting community safety, education and risk prevention.

Certification you may be eligible to receive upon successful completion – Must be employed by a Fire Department and 18 years old to challenge OSFM state exams:

- Office of the State Fire Marshal Basic Operations Firefighter
- Office of the State Fire Marshal Technical Rescue Awareness
- Office of the State Fire Marshal Fire Service Vehicle Operator
- American Heart Association CPR and AED
- FEMA NIMS (National Incident Management System) 100: Introduction to the Incident Command System; NIMS 700: National Incident Management System, An Introduction
- National Fallen Firefighters “Courage to be Safe” Certification

Related careers – Volunteer firefighter, Probationary firefighter, Contract firefighter, Industrial firefighter

Dual & Articulated Credit:

- **WCC FSC 105 – Basic Operations Firefighter Module A (4 credits)**
- **FSC 115 – Basic Operations Firefighter Module B (4 credits)**
- **FSC 118 – Basic Operations Firefighter Module C (4.5 credits)**
- **FSC 215 – Technical Rescue & Vehicle Operations (.5 credit).**

FIRE SCIENCE II

Grade: 12

Required: 70% or higher in Fire Science I

SIS#: 15152A002

Fire Science II is the second year of a two-year sequence.

Units of study – OSFM Advanced Technician Firefighter curriculum: the cognitive and psychomotor relevant to a journeyman firefighter, OSFM Vehicle Machinery Operations, Hazardous Materials Awareness/Operations, and Rope Operations, NIMS 200 and 800.

Tasks you will complete:

- Demonstrate the need for the Incident Command System
- Demonstrate how to complete a basic NFIRS incident report
- Demonstrate how to determine developing hazardous building conditions
- Demonstrate operating hose testing equipment and nozzles
- Demonstrate using a Pitot tube and gauge to read and record flow GPM, static pressure and flow pressures
- Demonstrate operating power plants, power tools, and lighting equipment
- Demonstrate the ability to operate hand and power tools and special forcible entry/exit needs
- Demonstrate the ability to operate hand and power tools for forcible entry
- Demonstrate the role of the advanced firefighter in ventilation operations
- Demonstrate attack techniques and coordinate fire attack for various types of structure fires
- Demonstrate the ability to identify the components of a fire suppression and detection system
- Demonstrate assembling a Rapid Intervention Team (RIT) with proper tools and equipment to function as a RIT team when a mayday is called
- Demonstrate the ability to assist rescue teams and establish public barriers when assigned

Skills/abilities you need to be successful – In addition to Fire Science I, ability to assist substitute instructor in absence of instructor, ability to lead class in daily roll call (attendance, Pledge of Allegiance, LODD bell ceremony), ability to lead a class company during individual skills and company scenarios, Class Honor Guard.

Certification you may be eligible to receive upon successful completion – Must be employed by a Fire Department and 18 years old to challenge OSFM state exams:

- Office of the State Fire Marshal Advanced Technician Firefighter
- Office of the State Fire Marshal Hazardous Materials Awareness/Operations
- Office of the State Fire Marshal Vehicle Machinery Operations
- Office of the State Fire Marshal Rope Operations
- FEMA NIMS (National Incident Management System) 200 ICS (Incident Command System) for Single Resources and Initial Action Incidents and NIMS 800: National Response Framework, An Introduction.

Related careers – Volunteer firefighter, Probationary firefighter, Contract firefighter, Industrial firefighter, Fire Service Officer, Fire Fighting Instructor, Specialty Certifications (Technical Rescue and Hazardous Materials)

Dual & Articulated Credit:

- **FSC 120 Hazardous Materials Operations (3 credits)**
- **WCC FSC 125 – Advanced Technician Firefighter (4 credits)**
- **FSC 150 – Vehicle Machinery Operations (3 credits).**

LAW ENFORCEMENT I

Grades: 11, 12

SIS#: 15054A001

Law Enforcement I is the first of a two-year sequence.

Units of study – History of Law Enforcement, tools used in law enforcement, criminal law and offenses, Illinois Vehicle Code, including DUI and accidents, search and seizure, use of force, combat tactics and force mitigation, courts and courtroom procedures, crime scene investigations, firearms training, investigate crimes in progress.

Tasks you will complete:

- Record facts to prepare reports that document incidents and activities
- Review facts of incidents to determine if criminal act or statute violations were involved
- Gather information
- Drill and ceremony used by military
- Identify elements of a crime
- Utilize resources to complete projects
- Defend one's personal space
- Respond to simulated crimes in progress
- Simulate effective detainment of suspects and offenders
- Conduct simulated searches of both people, property and vehicles

Skills/abilities you need to be successful – integrity, dependability, self-control, active listening, critical thinking, public speaking, one-to-one speaking, conflict resolution, reading comprehension, judgment and decision making, time management, writing, active learning, negotiation.

Related careers – Sheriff, State Police, Conservation Officer, Federal Agent, Process Server, Bailiff, Parole Officer, Correctional Officer, Security Guard, Forensic Specialist, Detective, Private Investigator, Emergency Medical Tech, SWAT Officer, Juvenile Officer

Articulated Credit - KCC CRJ 101 – Introduction to Criminal Justice (3 credits)

LAW ENFORCEMENT II

Grade: 12

Required: 70% or higher in Law Enforcement I

SIS#: 15054A002

Law Enforcement II is the second year of a two-year sequence.

Units of study – Investigating violent crimes, interviewing and interrogation, investigating crimes against children, investigating crimes against property, investigating terrorism, search and seizure, use of force, combat tactics and force mitigation, courts and courtroom procedures, crime scene investigations, firearms training.

Tasks you will complete:

- Record facts to prepare reports that document incidents and activities
- Review facts of incidents to determine if criminal acts or statute violations were involved.
- Gather information

- Identify elements of a crime
- Utilize resources to complete projects
- Defend one's personal space
- Respond to simulated crimes in progress
- Simulate effective detainment of suspects and offenders
- Conduct simulated searches of both people, property and vehicles

Skills/abilities you need to be successful – integrity, dependability, self-control, active listening, critical thinking, public speaking, one-to-one speaking, conflict resolution, reading comprehension, judgment and decision making, time management, writing, active learning, negotiation.

Related careers – Sheriff, State Police, Conservation Officer, Federal Agent, Process Server, Bailiff, Parole Officer, Correctional Officer, Security Guard, Forensic Specialist, Detective, Private Investigator, Emergency Medical Tech, SWAT Officer, Juvenile Officer

Articulated Credit – KCC CRJ 201 – Criminal Investigations (3 credits)

COSMETOLOGY I & II (at off-site locations)

Grades: 11, 12

SIS#: 19101A001

19101A002

Cosmetology is a two-year sequence taught off-site at Debutantes in DeKalb, Hair Professionals in Oswego or Sycamore, or Franklin Cosmetology Institute in Morris.

Units of study – Basic training, practical chemical application/hair treatment, hair styling/hairdressing, shop management, sanitation and interpersonal relations, esthetics and nail technology.

Tasks you will complete:

- Keep workstations clean and sanitize tools, such as scissors and combs
- Bleach, dye, or tint hair, using applicator or brush
- Cut, trim and shape hair or hairpieces, based on customers' instructions, hair type and facial features, using clippers, scissors, trimmers and razors
- Schedule client appointments
- Shampoo, rinse, condition and dry hair and scalp or hair pieces with water, liquid soap, or other solutions
- Comb, brush, and spray hair or wigs to set style

Skills/abilities you need to be successful – active listening, speaking, service orientation, near vision, arm-hand steadiness, finger dexterity, manual dexterity.

Certification you may be eligible to receive upon successful completion:

- IL Department of Financial and Professional Regulations cosmetology license

Related careers – Barber, Beautician, Cosmetologist, Hairdresser, Hair Stylist, Manicurist/Pedicurist, Esthetician

CULINARY ARTS I

Grades: 11, 12

SIS#: 16052A001

Culinary Arts I is the first year of a two-year sequence.

Units of study – Sanitation, Knife Skills, Nutrition, Customer Service, Intro to Baking and Cooking Methods, Culinary Math and Measuring, Culinary Professionalism.

Tasks you will complete:

- Clean and sanitize work areas, equipment, utensils, dishes or silverware
- Store food in designated containers and storage areas to prevent spoilage
- Portion and wrap the food or place it directly on plates for service to patrons
- Take and record temperature of food and food storage areas, such as refrigerators and freezers
- Prepare a variety of foods, such as meats, vegetables or desserts, according to customers' orders, recipes or Chef's instructions, following approved procedures
- Execute recipes for consistency and cost controls
- Prepare, present and evaluate food using culinary language to describe flavor, texture and overall presentation

Skills/abilities you need to be successful – active listening, coordination, service orientation, social perceptiveness, arm-hand steadiness, manual dexterity, verbal and nonverbal communication, finger dexterity, basic math and measuring, ability to stand for long periods, time management.

Certification you may be eligible to receive upon successful completion:

- ServSafe Food Handler Certification

Related careers – Certified Executive Chef, Chef, Instructor, Cook, Executive Sous Chef, Line Cook, Server, Front of House Manager, Purchasing Manager, Banquet Manager

CULINARY ARTS II

Grade: 12

Required: 70% or higher in Culinary Arts I

SIS#: 16055A001

Culinary Arts II is the second year of a two-year sequence.

Units of study – Sanitation, Knife Skills, Nutrition, Customer Service, Baking and Decorating, Cooking Methods, Culinary Professionalism, Recipe and Menu Development, Food Costing and Portioning, Purchasing and Inventory Controls, Culinary Leadership/Management.

Tasks you will complete:

- Monitor sanitation practices to ensure that employees follow standards and regulations
- Check the quality of raw or cooked food products to ensure that standards are met
- Estimate amounts and costs of required supplies, such as food and ingredients
- Instruct cooks or other workers in the preparation, cooking, garnishing or presentation of food
- Supervise or coordinate activities of cooks or workers engaged in food preparation
- Engage in providing excellent customer service
- Develop menus with appropriate recipes and costing
- Communicate effectively with team members, customers and community business partners
- Operate a Point of Sale System with accuracy

Skills/abilities you need to be successful – quality food production, customer service, managing peers, monitoring food quality, coordination, self-management, social perceptiveness, strong verbal communication, problem solving, information prioritization and arrangement, professional conflict resolution.

Certification you may be eligible to receive upon successful completion:

- ServSafe Food Manager Certification

Related careers – Certified Executive Chef, Chef, Instructor, Cook, Executive Sous Chef, Line Cook, Server, Front of House Manager, Purchasing Manager, Banquet Manager

ESTHETICS & FIRST AID (at Kishwaukee College)

Grades: 11, 12

SIS#: 14002A002

Esthetics & First Aid is a stand-alone one year course at the high school level. It satisfies two of the four pre-admission requirements for the Kishwaukee College Esthetics Certificate program.

Units of study – Administering basic first aid, adult, child and infant CPR, history of esthetics and career opportunities available to Licensed Estheticians, professionalism, proper communication, infection control, draping and the physical components of the esthetics environment.

Tasks you will complete:

- Examine clients' skin, using magnifying lamps or visors when necessary, to evaluate skin condition and appearance
- Cleanse clients' skin with water, creams or lotions
- Demonstrate how to clean and care for skin properly and recommend skin-care regimens
- Select and apply cosmetic products, such as creams, lotions and tonics
- Sterilize equipment and clean work areas

Skills/abilities you need to be successful – active listening, service orientation, critical thinking, social perceptiveness, near vision, speech clarity and recognition, arm-hand steadiness, finger/manual dexterity, attention to detail.

Certification you may be eligible to receive upon successful completion:

- Two classes toward the Illinois Department of Financial and Professional Regulations Licensed Esthetician Certificate

Related careers – Dermatologist, Plastic Surgeon, Spa/Salon/Resort Skincare Specialist, Make-up Artist, Skincare Product Marketing, Purchasing or Consulting

Dual Credit – KCC EST 100 – Introduction to Esthetics (1 credit)

KCC PE 162 – First Aid & Emergency Response (3 credits)

TEACHING METHODS I

Grades: 11, 12

SIS#: 19152A001

Teaching Methods I is the first year of a two-year sequence where you will interact with children in a fully run student-taught preschool.

Units of study – Health, nutrition, safety, observation and guidance, family and community relationships, personal and professional development, child development from birth to 12 years, preschool social, emotional, physical, cognitive and language development, preschool types, child development theories, establishing classroom limits, curriculum development.

Tasks you will complete:

- Establish and enforce rules for behavior and procedures for maintaining order
- Organize and lead activities designed to promote physical, mental and social development, such as games, arts and crafts, music, storytelling, and field trips
- Teach basic skills, such as colors, shapes, number and letter recognition, personal hygiene and social skills
- Observe and evaluate children's performance, behavior, social development and physical health
- Read books to entire classes or to small groups

Skills/abilities you need to be successful – comfortable speaking to peers, parents and children, selecting and using appropriate training/instructional methods and procedures, instructing, active listening, establishing and maintaining interpersonal relationships, originality.

Certification you may be eligible to receive upon successful completion:

- Gateways to Opportunity Level 1 Certification
- CPR – Heartsaver card

Related careers – Social and Human Service Assistants, Kindergarten Teachers, except Special Education, Self-Enrichment Education Teachers, Teacher Assistants, Nannies, Preschool Teacher, Children's Librarian, Child Advocacy, Counselor, Social Worker

TEACHING METHODS II

Grade: 12

Required: 70% or higher in Teaching Methods I

SIS#: 19151A001

Teaching Methods II is the second year of a two-year sequence where you will interact with children in a fully run student-taught preschool.

Units of study – Responsibilities of parenting, encouraging learning and brain development from 1 to 3 and 4 to 6, children's health and safety, family challenges, children with special needs, child abuse and neglect, child care options, participating in early childhood education, careers in early education, theories and theorists, internship opportunities in local schools.

Tasks you will complete:

- Establish and enforce rules for behavior and procedures for maintaining order
- Organize and lead activities designed to promote physical, mental and social development, such as games, arts and crafts, music, storytelling and field trips
- Teach basic skills, such as colors, shapes, number and letter recognition, personal hygiene and social skills
- Observe and evaluate children's performance, behavior, social development and physical health
- Read books to entire classes or to small groups
- Lead and conduct parent teacher conferences with preschool parents
- Be a positive role model to first year students
- Give constructive criticism to peers

Skills/abilities you need to be successful – comfortable speaking to peers, parents and children, selecting and using appropriate training/instructional methods and procedures, instructing, active listening, establishing and maintaining interpersonal relationships, originality.

Related careers – Social and Human Service Assistants, Kindergarten Teachers, except Special Education, Self-Enrichment Education Teachers, Teacher Assistants, Nannies, Preschool Teacher, Children’s Librarian, Child Advocacy, Counselor, Social Worker

Articulated Credit – WCC ECE 101 – Introduction to Early Childhood Education (3 credits)
KCC ECE 112 - Guiding Young Children (3 credits)

COD- College of Dupage
KCC - Kishwaukee Community College

JJC - Joliet Junior College
WCC - Waubensee Community College

Indian Valley Vocational Center is owned and operated by 10 school districts:

- Earlville District #9
- Hinckley - Big Rock District #429
- Indian Creek District # 425
- Leland District # 1
- Newark District #18
- Plano District #88
- Sandwich District #430
- Serena District # 2
- Somonauk District #432
- Yorkville District #115

Students from these districts attend IVVC during their junior and senior years in the morning or afternoon. Students who attend IVVC are selected by their own district’s criteria for attendance at IVVC.

AGRICULTURE

(Classes are taken at Somonauk High School)

INTRODUCTION TO AGRICULTURE AND LEADERSHIP (VALEES #18001A001)

CREDIT: 1

GRADE PLACEMENT: 9, 10, 11, 12

Offered Yearly

SEMESTER: Full Year

DESCRIPTION: This orientation course provides an opportunity for students to learn the fundamentals of the agriculture industry. Students will learn how agriculture is more than farming; and can expect to learn industry facts, parliamentary procedure, speech skills, animal, plant and food science, basic mechanics skills, business and recordkeeping skills, and FFA. 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. *Prerequisite: None*

VETERINARY SCIENCE

CREDIT: 1

GRADE PLACEMENT: 11, 12

Offered Yearly

SEMESTER: Full Year

DESCRIPTION: This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, advanced animal nutrition and reproduction, 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. Students will participate in activities such as animal bandaging, specimen dissection, animal handling and animal restraint (for veterinary purposes). This course has the opportunity to bring in your animal for participation as well. 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. *Prerequisite: Animal and Plant Science*

NATURAL RESOURCES & ENVIRONMENTAL SCIENCE

CREDIT: 1

GRADE PLACEMENT: 10, 11, 12

Not offered Yearly

SEMESTER: Full Year

DESCRIPTION: This course will explore the many topics within our natural resources, including forestry, fisheries, soil conservations, sustainability, and geospatial technology. This course is laboratory based and rooted in inquiry based learning. *Prerequisite: Introduction to Agriculture*

FOOD SCIENCE

CREDIT: 1

GRADE PLACEMENT: 11, 12

Offered Yearly

SEMESTER: Full Year

DESCRIPTION: This course will explore the science of food, food safety, production and processing, and food science in your future. Students will have the opportunity to learn about the science behind their food while performing in a primarily lab based course. Activities of this course include baking, cooking, developing recipes, taste testing and sensory evaluation, and more. Students should be prepared to work both independently and in groups. The course culminates in the development of a food product. 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.

Prerequisite: Introduction to Agriculture or consent of the instructor

Farm to Fork - Food Production

CREDIT: 1

GRADE PLACEMENT: 9, 10, 11, 12

Offered Yearly

SEMESTER: Full Year

DESCRIPTION: This course will explore the science of food from farm to fork. Students will learn how plants and animals are produced and processed through hands-on experiences. This will include growing food hydroponically in the school AND being involved in production of food in the program's farm plot. In addition to food production and processing, students will also gain valuable food preparation experience in the food science laboratory. 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. *Prerequisite: Introduction to Agriculture or consent of the instructor*

Small Animal Care

CREDITS: .5

GRADE PLACEMENT: 9, 10, 11, 12

Offered Yearly

SEMESTER: 1 semester

Description: This course is for students who enjoy domestic animals and want to learn more about the small animal industry and related careers. Animals discussed include dogs, cats, rabbits, small rodents, birds, reptiles and other pet and laboratory animals. Topics discussed include safety, feeding, training, anatomy, reproduction, health, behavior, housing, and equipment needed for care. This curriculum provides laboratory, lecture, and hand on activities. Students will be working with animals in the classroom, which will enhance the course materials. Students will also be expected to make a science fair animal exhibit. Guest speakers and field trips to businesses will be utilized when appropriate for the lessons. 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. *Prerequisite: Introduction to Agriculture or consent of the instructor*

Large Animal Care

CREDIT: .5

GRADE PLACEMENT: 9, 10, 11, 12

Offered Yearly

SEMESTER: 1 semester

Description: This course is designed to give students advanced knowledge of large farm animals. The production animals that will be covered will include equine, dairy, beef, swine, poultry, sheep, and goats. This course will provide an understanding of breeds, animal health, nutrition, anatomy and physiology, training, and judging of each animal. Students will learn information, knowledge, and skills associated with careers in animal production and animal science. This curriculum provides laboratory, lecture, and hand on activities. Students will be working with animals in the classroom, which will enhance the course materials. Students will also be expected to make a science fair animal exhibit. Guest speakers and field trips to businesses will be utilized when appropriate for the lessons. 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. *Prerequisite: Introduction to Agriculture or consent of the instructor*

ANIMAL SCIENCE

CREDIT: 1

GRADE PLACEMENT: 11, 12

Offered Yearly

SEMESTER: Full Year

DESCRIPTION: This hands-on agricultural science course builds on basic skills and knowledge gained in the Introduction to the Agricultural & Leadership course. Major units of instruction include animal reproduction, animal nutrition, basic anatomy & physiology and meat science. 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. *Prerequisite: Introduction to Agriculture and Leadership or consent of the instructor*

HORTICULTURE (Plant) Science

CREDIT: 1

GRADE PLACEMENT: 10, 11, 12

Not offered Yearly

SEMESTER: Full Year

DESCRIPTION: This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and floral design. *Prerequisite: Introduction to Agriculture*

AGRICULTURAL MECHANICS (VALEES #18401A001)

CREDIT: 1

GRADE PLACEMENT: 10, 11, 12

Offered Yearly

SEMESTER: Full Year

DESCRIPTION: This course theory and hands-on experience provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include the basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, welding, construction, cold metal work, and operating agricultural equipment safely. *Prerequisite: Introduction to Agriculture & Leadership*

ADVANCED AGRICULTURAL MECHANICS (VALEES #18401A001)

CREDIT: 1

GRADE PLACEMENT: 11, 12

Not offered Yearly

SEMESTER: Full Year

DESCRIPTION: This course focuses on the knowledge, hands-on skills, and workplace skills applicable to construction in the agricultural industry. Major units of instruction include: personal safety, hand tools, power tools, blueprint reading, surveying, construction skills in carpentry, electricity, concrete and painting. 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.

Prerequisite: Introduction to Agriculture & Leadership