CLASS OF 2022

1. A minimum of twenty-four (24) credits is required for graduation; each semester course with a grade of D or above earns ½ credit.

   3 credits in Math (Grades 9, 10, 11; 1 credit Geometry, 1 credit Algebra)
   2 credits in Science (Grades 9, 10)
   4 credits in English (Grades 9, 10, 11, 12)
   2 credits in Physical Education
   ½ credit in Health (Grade 10)
   1 credit in U.S. History (Grade 11)
   ½ credit in Government (Grade 12)
   ½ credit in Economics (Grades 11 or 12) or Law (Grade 12)
   10½ credits of elective courses

2. Band, Chorus and PE courses are calculated in the GPA and receive ½ credit per semester. PE athletics is graded as pass/fail and receives ½ credit per semester and is not calculated in the GPA.

3. Show Choir and Jazz Band are non-credit performing groups.

4. Classroom Driver Education is normally taught during the freshman year. Students will be scheduled into Driver's Education according to their birth date (must be age 15 before or during the book phase) and eligibility. To be eligible, IL state law requires students to pass a total of eight classes during the two semesters previous to Driver Education. This course earns a grade but is not calculated in GPA and earns no credit.

5. All courses that meet two hours receive 2 credits per year. A student must be enrolled in three additional courses, plus P.E., to total at least 6.0 credits per year and can only enroll in one 2 credit course per year.

6. A student whose class has not graduated is required to be enrolled as a full time student with a normal load. A normal load is 6 subjects.

7. A student must be enrolled at Jersey Community High School as a full-time student the semester immediately preceding graduation. A JCHS senior student who lacks no more than one credit from graduating with his class may attend summer school or take a correspondence course the summer following his senior year. A student taking courses outside JCHS must have the approval of the principal.



8. Diplomas will be issued at the time of graduation to those who have met the academic requirements.

9. A student may transfer a total of one credit from a community college or correspondence school to fulfill graduation requirements.

10. Students are expected to take a normal load and encouraged to spend four years in meeting the requirements from Jersey Community High School. Early graduation is not encouraged or recommended. However, if early graduation is desired, the following requirements are mandatory:

    A. Meet all Jersey Community High School graduation requirements.

    B. Submit to the Principal an early graduation request letter by June 1, prior to the date of expected completion of course work. Any requests after June 1 must have approval by the Principal through personal interview.

    C. Attend school at least seven (7) semesters AND (it is recommended to) pass Government in summer school before the senior year.

    D. Students must earn their 8th semester (1/2 credit) of English through one of the following methods credit:

       - Correspondence Course or
       - Taking a non-remedial English elective

    E. Students are responsible for all summer school and transfer course fees.

Students who are permitted to graduate early may receive written certification of their graduation at the time of completed required course work. However, a diploma will not be awarded until May of the graduating year.

**NOTICE OF NONDISCRIMINATION**

Community Unit School District No. 100 insures that equal educational opportunities are offered to students, regardless of race, color, national origin, age, sex, religion or handicap. Questions in reference to educational opportunities may be directed to the Superintendent, Unit #100 Administration Office, 100 Lincoln Street, Jerseyville, Illinois, 62052, Telephone 618-498-5561.

A student grievance procedure, information about this procedure, and copies of the procedure, are available from the offices of the Superintendent of District No. 100 and the Assistant Principal of Jersey Community High School.

JERSEY COMMUNITY HIGH SCHOOL

COURSES OF STUDY

**College Preparatory and Career and Technical Education**

The various choices of study at JCHS have been established for the purpose of providing students with an expressed academic guide while choosing their desired course work. The choice of the course of study is a very important decision and should receive a tremendous amount of consideration.

In choosing a course of study a student should consult with a counselor and parents. Throughout the four years in high school a student should review his course selection in terms of meeting his occupational or higher education goals as determined by his chosen course of study.

Upon entering the 9th grade at JCHS, the student will develop a 4-year career plan. Students may change their career plan as often as necessary but specifically at the time of registration.

All students planning to attend college must check the college catalogues or website for specific entrance requirements.



I. College Preparatory

All students planning to attend a college or university should plan a rigorous academic program. The suggested requirements in the college preparatory curriculum must satisfy college and university minimum entrance requirements. If a student knows the institution which he/she plans to attend, a program tailored to meet specific entrance requirements should be established.

Suggested minimum college admission requirements: 4 years English, 3 years lab science, 3 years math (Algebra 1, Plane Geometry, Algebra 2), 3 years social studies, 2 years fine arts (often specified as same foreign language but sometimes met with art, music, or vocational education).

II. Career and Technical Education

Career and technical education programs are available in Agriculture, Business, and Industrial Arts areas. These programs are open to all interested students.

Every reasonable effort is made to accommodate students with special needs. Tech Prep classes are available at the high school to prepare the student interested in pursuing a technical career and technical program after high school.

At this time, Jersey Community High School has articulation agreements with Lewis and Clark Community College and Saint Louis University. Through these programs, students may earn college credits while at JCHS.

## Honors Program

The following courses are classified as honors courses at JCHS:

| | | |
|---|---|---|
| English I (H) | English II (H) | English III (H) |
| English IV (H) | Spanish IV (H) | Physics (H) |
| Advanced Chemistry (H) | Environmental Science (H) | Botany (H) |
| Algebra II (H) | Pre Calculus (H) | Calculus AP (H) |
| Statistics (H) | Economics (H) | Zoology (H) |
| Symphonic Band (H) | Chorale (H) | Marketing (H) |
| Public Speaking (H) | Advanced Accounting (H) | Plane Geometry (H) |

Procedure for calculating grade point average:

A base grade point average will be determined for each student by multiplying each semester grade by its value (A=5 B=4 C=3 D=2 F=0) and dividing by the number of grades.

The following values will be added to the student's base grade point average for each grade earned in honors classes: AH=.02 BH=.02 CH=.02 DH=.02



COURSE DESCRIPTIONS

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## ENGLISH

**ENGLISH I CONCEPTS** Grade 9 Year (010001A000)

English I students will experience a variety of both fiction and nonfiction texts through short stories, novels, drama, poetry, and classical literature. Special attention will paid to the complex texts of *Of Mice and Men* and *The Princess Bride.* In addition, students will read one school appropriate book per quarter of their choosing, which will lead into a written Book Completion assignment one quarter and an oral presentation the next quarter for each semester. Students will write intensely both formally and informally, and will learn to apply paragraph organization and terminology. Formal writing, which adheres to strict grammatical rules and a variety of sentence structures, will emphasize paragraph writing and will introduce students to writing in MLA style. Formal essays will include a Character Analysis essay and a Persuasive essay. Informal writing, which encourages development of personal thoughts and analytical ideas with less structure, will include a variety of creative writings. Students in this class should be interested in pursuing a technical degree, joining the military, or going into the workforce directly after high school.

**ENGLISH I** Grade 9 Year (010001A000)

In this writing intensive course, English I students will experience a variety of both fiction and nonfiction texts through short stories, novels, drama, poetry, and classical literature. Special attention will paid to the complex texts of *The Odyssey* by Homer, and *Romeo & Juliet* by William Shakespeare. In addition, students will read one school appropriate book per quarter of their choosing, which will lead into a written Book Completion assignment one quarter and an oral presentation the next quarter for each semester. Students will write intensely both formally and informally, and will learn to apply paragraph organization and terminology. Formal writing, which adheres to strict grammatical rules and a variety of sentence structures, will emphasize paragraph writing and will introduce students to writing in MLA style. Formal essays will include a Character Analysis essay and a Persuasive essay. Informal writing, which encourages development of personal thoughts and analytical ideas with less structure, will include a variety of creative writings. Students in this class should be interested in attending a college or university after high school.

**ENGLISH I (H)** Grade 9 Year (010001A000)

Prerequisite: C or better in 8th grade honors English and teacher recommendation

In this writing and reading intensive course, English I Honors students will experience a variety of both fiction and nonfiction texts through short stories, novels, drama, poetry, and classical literature. The main emphasis throughout the year will be Greek and Roman Mythology.



Special attention will paid to the complex texts of *In the Heat of the Night* by John Ball, *Alas, Babylon* by Pat Frank, *Darkness* by John Saul, *Flowers for Algernon* by Daniel Keyes, *Dracula* by Bram Stoker, *The Odyssey* by Homer, and *Romeo & Juliet* by William Shakespeare. In addition, students will read two school appropriate books per quarter of their choosing, which will lead into a written Book Completion assignment and an oral presentation for each quarter. Students will write intensely both formally and informally, and will learn to apply paragraph organization and terminology. Formal writing, which adheres to strict grammatical rules and a variety of sentence structures, will emphasize paragraph writing and will introduce students to writing in MLA style. Formal essays will include a Character Analysis essay and a Persuasive essay. Informal writing, which encourages development of personal thoughts and analytical ideas with less structure, will include a variety of creative writings. Students in this class should be interested in attending a college or university after graduation.

**ENGLISH II CONCEPTS** Grade 10 Year (010002A000)

Students will experience a variety of fiction and nonfiction texts. Specifically, students will be reading the following novels: *Fallen Angels* by Walter Dean Meyers, *Animal Farm* by George Orwell, *The Absolutely True Diary of a Part Time Indian* by Alexie Sherman, *and Night* by Elie Weisel. Students will read connective pieces of fiction and nonfiction in our StudySync textbook. These texts are designed to help connect literary ideas as well prepare students for the PSAT test in the spring. Students will experience daily grammar lessons using No Red Ink, an online grammar program designed to differentiate the grammar needs of each student. Students will continue working on writing skills as well focusing on narrative, expository and argumentative essays. Students in this class should be interested in pursuing a technical degree, joining the military, or going into the workforce directly after high school.

**ENGLISH II** Grade 10 Year (010002A000)

In this writing intensive course, students will experience a variety of fiction and nonfiction texts through short stories, novels, drama, poetry, and classical literature. Specifically, students will be reading a combination of the complex texts of *Macbeth* by William Shakespeare, *Fahrenheit 451* by Ray Bradbury, *To Kill a Mockingbird* by Harper Lee, *Speak* by Laurie Halse Anderson, *Night* by Elie Wiesel, and *Tuesdays with Morrie* by Mitch Albom. Formal writing which takes into account strict grammatical rules and a variety of sentence structures, will emphasize argumentative and informative analysis essays. Informal writing, which encourages development of personal thoughts and analytical ideas, will include journal entries and responsive writings that relate to text. Students in this class should be interested in attending a college or university after high school.

**ENGLISH II (H)** Grade 10 Year (010002A000)

In this reading and writing intensive course, students will experience a variety of fiction and nonfiction texts through short stories, novels, drama, poetry, and classical literature. Specifically, students will be reading a combination of the complex texts of *Macbeth* by William Shakespeare, *Into the Wild* by Jon Krakauer, *Speak* by Laurie Halse Anderson, *Night* by Elie Wiesel, and *Tuesdays with Morrie* by Mitch Albom. In addition, students will read school appropriate books per semester of their choosing, which will lead into intensive writing analysis projects. Formal writing which takes into account strict grammatical rules and a variety of sentence structures, will emphasize argumentative and informative analysis essays. These essays will incorporate MLA documentation of in text citations and Works Cited pages when applicable. Appropriate research strategies will be used. Informal writing, which encourages development of personal thoughts and analytical ideas, will include journal entries and responsive writings that relate to text. Students must maintain a C average to remain in honors level English. Students in this class should be interested in attending a college or university after graduation.

**ENGLISH III CONCEPTS** Grade 11 Year (01054A000)

This writing intensive course will consist of American Literature reading selections from commonly known American authors during the 1500- 1859 time periods. Students will improve their critical thinking and vocabulary skills as they engage in the texts, which reflect the society of the time. During first semester, special attention will be given to Arthur Miller's *The Crucible* and *Kennedy's Last Days* by Bill O'Reilly. During second semester, special attention will be given to the complex text of *The House on Mango Street* by Sandra Cisneros . Students will analyze and discuss the authors and their works through the skill sets of predicting, summarizing, connecting, questioning, and inferring in order to help develop both comprehension and literacy competence. Formal writing, which takes into account strict grammatical rules and MLA five-paragraph style, will focus on two literary analysis essays . During second semester, the students will focus on an argumentative research essay. This focus will involve developing analytical skills, MLA format for citations, and sentence variation. Informal writing, which encourages development of personal thoughts and analytical ideas, will include journal entries and responsive writings that relate to text. Students in this class should be interested in pursuing a technical degree, joining the military, or going into the workforce directly after high school.



**ENGLISH III** Grade 11 Year (01054A000)

This writing intensive course will consist of American Literature reading selections from commonly known American authors during the 1500 - 1900 time periods [first semester] and 1900 - current [second semester]. Students will improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects the society of the time. During first semester, special attention will be given to the complex text of Arthur Miller's *The Crucible* and *Kennedy's Last Days* by Bill O'Reilly. During second semester, special attention will be given to the complex texts of F. Scott Fitzgerald's, *The Great Gatsby* and *The House on Mango Street* by Sandra Cisneros. Students will analyze and discuss these and additional authors' works through the skill sets of predicting, summarizing, connecting, questioning, and inferring in order to help develop both comprehension and literacy competence. Formal writing, which takes into account strict grammatical rules and MLA five-paragraph style, will focus on two literary analysis essays (one of which will be a compare and contrast) . During second semester, the students will focus on argumentative research essays. This focus will involve developing analytical skills, MLA format for citations, research, and sentence variation. Informal writing, which encourages development of personal thoughts and analytical ideas, will include journal entries and responsive writings that relate to text.

**ENGLISH III (H)** Grade 11 Year (01054A000)

Prerequisite:
Must have a C or better in English II Honors and teacher recommendation.

This writing intensive course will consist of American Literature reading selections. Students will improve their critical-thinking and analysis skills as they determine the underlying assumptions and values within the selected works. During first semester, special attention will be given to the complex texts of The Crucible by Arthur Miller, The Scarlet Letter by Nathaniel Hawthorne, and The Awakening by Kate Chopin. During second semester, special attention will be given to the complex texts of The Grapes of Wrath by John Steinbeck, The Great Gatsby by F. Scott Fitzgerald, and The Namesake by Jhumpa Lahiri. Students will also read multiple pieces of fiction and nonfiction connective texts in our StudySync textbook. These pieces of text closely mimic the type of texts students will see on the SAT test in the Spring. Daily grammar lessons using No Red Ink are also an integral part of this course as ll as weekly SAT vocabulary and prep work. Written compositions will include argumentative, compare/contrast and literary analysis papers using proper MLA format.

**ENGLISH IV CONCEPTS (Applied)** Grade 12 Year (01156A000)

This writing intensive course will teach students how to integrate informative, narrative and research writing and reading into their daily lives. The course will refine skills related to literature, language, and composition. The level of skill development in this course is aimed at preparing students to enter into the workforce, armed forces, or a trade school upon graduation. The class works to build and strengthen reading comprehension, grammatical and written expression skills through teacher modeling and regular writing practice. While exploring major literary themes in a variety of genres students will read both fiction and nonfiction works including *The Hobbit, The Help, Darkness, Animal Farm, The Hunger Games, The Green Mile, The Chocolate War, Alas Babylon, and Chasing Lincoln's Killer.* A particular emphasis is placed upon expanding student's ability to respond to these themes by drawing conclusions and supporting their opinions either in written or oral format.

**ENGLISH IV** Grade 12 Year (01004A000)

This writing intensive course is aimed at preparing students for college-level analysis writing and research. Reading materials include fiction and nonfiction texts including, but not limited to *Beowulf, Canterbury Tales, Hamlet, Brave New World, Pride and Prejudice, and The Glass Menagerie.* Students also read and examine primary and secondary source materials. Students will learn and utilize proper grammar as well as writing and research techniques with a focus on MLA citations and plagiarism. Students will organize, write and revise a variety of essays including a literary analysis of a text, a literary analysis compare and contrast, a narrative, an argumentative essay, and an argumentative research paper. The intensive writing is intended to prepare students who plan to attend either a two year college or a four year college or university.

**ENGLISH IV (H) /ENGL 131** Grade 12 Semester (01004A000)

Prerequisite: A minimum of an 18 in BOTH English and Reading on the ACT or 25 on the SAT English and Writing test scores. Students must have been enrolled in English III Honors and received at least a C **and** have teacher recommendation.

This writing intensive course is a dual partnership with Lewis and Clark Community College and students may receive both high school and college credits (3) by meeting the class requirements and guidelines. ENGL 131 focuses on college level writing, including, but not limited to, a narrative essay, an exemplification essay, a classification essay, an analytical compare and contrast essay, and an argumentative research paper. Papers range in length from 500 word to 1200 words. Students are expected to learn and utilize proper grammar, writing and research skills using proper MLA formatting. Students will use No Red Ink for grammar practice. Students complete a minimum of 5 essays in this semester long course. Students are responsible for purchasing their own textbook: *The Student Writer*.



**ENGLISH IV (H) /ENGL 132** Grade 12 Semester (01004A000)

Prerequisite: C or better in ENGLISH IVH/ENGL 131.

This writing intensive course is a dual partnership with Lewis and Clark Community College and students may receive both high school and college credits (3) by meeting the class requirements and guidelines. ENGL 132 uses the previous grammar, writing, editing, and formatting skills learned in ENGL 131. Students will continue using the program No Red Ink to practice grammar skills. This course primarily focuses on literary analysis of fiction, poetry, dramas, and a novel. Writing assignments range from 750 words to 2500 words. Students complete a minimum of 4 essays in this semester long class as well an a research-driven culminating project at the end of the semester. Students must earn a D or better on the research paper to receive credit in the class. Students are responsible for purchasing their own textbook: *The Compact Bedford Introduction to Literature.*

**PUBLIC SPEAKING (H)** Grade 11-12 Semester (01151A000)

This course is a partnership with Lewis and Clark Community College, and students may receive both high school and college credits (3 per semester) by meeting the class's requirements and guidelines, including attendance. Students will become familiar with a variety of public speaking techniques, including an understanding of communication technology, speech organization, and delivery techniques. Students will also gain confidence and experience necessary to present effective informative, persuasive, and special occasion speeches outside of the classroom setting. In addition, students will learn the fundamentals of speech process including basic interpersonal communication concepts and how each concept plays a role in every individual's life. **Must receive C or better on final speech in order to receive full credit for course.** Students are responsible for purchasing their own textbook: *Speak Up!*

**ENGLISH CREDIT RECOVERY** Grades 9-12 Semester **(01009A000)**

English Credit Recovery (9-12) is designed for students who need to make up a failed English course. Students will practice literary analysis; write formal and informal essays including narrative writings, resume, and journal entries; and, practice to improve grammar and sentence construction skills. Students will use digital resources including NoRedInk, Study Sync, as well as news sources to maintain current awareness of cultural interests.

## FOREIGN LANGUAGE

**SPANISH I** Grade 9-11 Year (06101A000)

Recommend: B average in language arts.

This introductory course focuses on the basic language skills of listening, speaking, reading and writing through the study of vocabulary, basic grammar and Hispanic culture. Many Spanish speaking countries will be studied, as well as the Spanish influence in the United States. Other important concepts addressed will be numbers, dates, telling time, weather, and present tense verbs.

**SPANISH II** Grade 10-12 Year (06102A000)

Prerequisite: Spanish I

This course continues the development of the language skills, beginning with a review of vocabulary and grammar studied in Spanish I. Emphasis in Spanish II is placed on culture, broadening one's vocabulary and continuing the study of grammar, leading to the ability to express oneself more easily in Spanish.

**SPANISH III** Grade 11-12 Year (06103A000)

Prerequisite: Spanish II

Spanish III consists of readings and activities covering a variety of subjects-geography, history, short stories, poems, Hispanic culture, etc. Also included is a grammar review plus the introduction and use of the present and imperfect subjunctive.

## MATHEMATICS

**ALGEBRA I CONCEPTS** Grade 9-12 Year (02053A000)

This course covers integers, data patterns, solving equations and inequalities, linear functions and their graphs.

**ALGEBRA I** Grade 9 Year (02052A000)

This course covers integers, data patterns, solving equations and inequalities, linear functions and their graphs, polynomials, factoring, quadratic functions and their graphs, linear systems of equations and inequalities, coordinate geometry, exponential equations, radicals and exponents.



**INTERMEDIATE ALGEBRA I** Grade 10-12 Year (02052A000)
This course covers integers, data patterns, solving equations and inequalities, linear functions and their graphs, polynomials, factoring, quadratic functions and their graphs, linear systems of equations and inequalities, coordinate geometry, exponential equations, radicals and exponents.

**PLANE GEOMETRY (H)** Grade 9-10 Year (02072A000)

Prerequisite: Algebra I with 75% or better or teacher recommendation

Geometry is the study of points, lines, angles, planes and surfaces. It is the introduction to logical thinking and correct reasoning with the emphasis placed on formal proof and use of formulas. It carries a store of practical knowledge and covers such subjects as triangles, ratio, proportion, circles, isometrics and matrices. The course also gives a review of Algebra I skills. A graphing calculator is recommended for this course.

**PLANE GEOMETRY** Grade 10-12 Year (02072A000)

Prerequisite: Algebra Concepts or Algebra I

Geometry is the study of points, lines, angles, planes and surfaces. It is the introduction to logical thinking, formal proof and use of formulas. It carries a store of practical knowledge and covers such subjects as triangles, ratio, proportion, circles, and isometrics. The course also gives a review of Algebra I skills. A graphing calculator is recommended for this course.

**GEOMETRY CONCEPTS** Grade 10-12 Year (02074A000)
Prerequisite: Algebra Concepts

This course will review topics from algebra and offer an introduction to the study of coordinate geometry, plane geometry and basic trigonometry. Practical real-world examples and applications will be the focal point. This course is designed for the student who planes to pursue a one or two year technical program at a community college or technical school.

**ALGEBRA ADVANTAGE** Grade 12 Year (02056A000)

This class is a partnership with Lewis and Clark Community College (Math112/116). The course presents a review of real numbers and basic operations of algebraic expressions. Students will solve linear equations and inequalities; work with linear equations in two variables and their graphs; and solve systems of linear equations. This class will also present rules of exponents, operations with polynomials, factoring, solving quadratic equations, simplification of rational exponents, roots and radicals, operations on rational algebraic expressions; solving rations, absolute value and radical equations. A TI-83 or TI-84 graphing calculator is required.

**ALGEBRA II** Grade 10-12 Year (02057A000)

Prerequisite: Plane Geometry, not Geometry Concepts unless teacher recommended

This course offers a comprehensive review of Algebra I skills and an in-depth study of linear equations and functions, quadratic equations and functions, exponents, radicals, complex numbers, inverses, logarithms, polynomials, rationals and irrationals. A graphing calculator is required for this course.

**ALGEBRA II (H)** Grade 10 Year (02057A000)

Prerequisite: Geometry Honors with a 75% or higher or teacher recommendation

This course offers a comprehensive review of Algebra I skills and an in-depth study of linear equations, quadratic equations, exponents, functions, radicals, complex numbers, inverses, logarithms, polynomials, rationals, and irrationals, and an introduction to trigonometry. A graphing calculator is required for this course.

**ALGEBRA III/MATH 131** Grade 11-12 Year (02106A000)

Prerequisite: Algebra II

This course is a partnership with Lewis and Clark Community College. This course offers an intense review of algebraic topics such as operations with rational expression, finding inverse functions, solving quadratics, factoring and polynomial functions. In addition, it offers an in-depth study of functions and their graphs. Also included are trigonometric functions, their graphs and equations. A graphing calculator is required for this course.

**PRE-CALCULUS/TRIGONOMETRY (H)** Grade 11-12 Year

Prerequisite: Algebra 2H with a 75% or higher or teacher rec (02105A000)

Pre-Calculus/Trigonometry offers an approach to both theory and application of basic trigonometry as well as an in-depth study of functions and their graphs. Topics include trigonometric functions, their graphs, identities and equations. Inverse functions, polynomial functions, exponential and logarithmic functions, sequences and series are also addressed. A graphing calculator is required for this course.



**CALCULUS (H) AP/MATH 171** Grade 12 Year (02124A000)

Prerequisite: Pre-Calculus/Trigonometry with a 75% or high or teacher rec

This course is a partnership with Lewis and Clark Community College and St. Louis University. Students may receive both high school and college credits by meeting the class's requirements and guidelines, including attendance. This course contains the study of differential and integral calculus. This course follows the College Board's guidelines for Calculus AB and is the equivalent of one semester of college Calculus. A graphing calculator is required.

**STATISTICS (H)/MATH 235** Grade 12 Year (02202A000)

Prerequisite: C or better in Algebra II, for grade 11 only with administrator approval and taken concurrently with Pre-Calculus

This course is a partnership with Lewis and Clark Community College, and students may receive both high school and college credits (4) by meeting the class's requirements and guidelines, including attendance. This course examines the collection, organization and interpretation of both univariate and bivariate quantitative data using graphical and numerical descriptive methods; develops necessary sampling distribution theory through computer simulation and actual experimentation; provides the opportunity to design and carry out real experiments to estimate unknown population parameters and to test hypotheses about those parameters. A graphing calculator is required for this class.

**COMPUTERIZED ACCOUNTING** Grades 12 Year (12104A001)

*Math credit Senior Year Only

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

## MUSIC

**MUSIC APPRECIATION** Grade 9-12 Semester (05118A000)

This class is designed for the non-college bound and/or college bound students as a fine arts elective. Music from early classical through today's music will be studied through listening, watching and reading. Pop, rock, jazz, musicals and more will be part of the class. Students do not have to be members of band or choir to be successful in this class.

**PIANO LAB** Grade 9-12 Year (05107A000)

This course is designed for the beginning, moderate, or advanced piano students who are interested in learning the basics of playing and music terminology. **No prior music knowledge is required** Time in class will be spent both on and off the keyboard. While playing, students will be working individually to master the techniques of playing and learning pieces. This will be done primarily on the individual keyboards which will plug into your laptop and will use headphones. Independent study will be a major emphasis.

**SYMPHONIC BAND** Grades 9-12 Year (05101A000)

This group is for the intermediate through the advanced instrumental music student. Entrance into this group is by audition. In addition to performing at football and basketball games, the band will perform several indoor concerts, field competitions, parades, and participate in IHSA and IMEA activities. Members of this group will work on sight reading skills, continue mastery of rhythmic drills and scales and learn basic theory skills. Students involved in sports or other school activities are encouraged to participate in the band program. Attendance is required for all performances.

**SYMPHONIC BAND (H)** Grade 11 or 12 Year (05101A000)

Prerequisite: Audition and acceptance into Symphonic Band

In addition to the regular requirements of symphonic band, students will have to complete work in the areas of performance, leadership and written projects. Projects in these areas include auditioning for IMEA, participating in IHSA solo and ensemble contest, composing music, participating in an extra-curricular music ensemble and research papers on music topics.



**CONCERT BAND** Grades 9-12 Year (05101A000)

This group is for the advanced beginner to intermediate instrumental music student. Entrance into this group is for all high school students. The purpose of this group is to continue to work on the musical skills needed to become a successful musician. This group will perform concerts through the school year, march in the fall, play for sporting events and participate in IHSA and IMEA sponsored activities. Attendance at performances is required and students involved in sports or other school activities are encouraged to participate in the band program. This is not a beginning band; therefore, all students are expected to have some instrumental background.

**JAZZ ENSEMBLE/JAZZ BAND/SHADES OF BLUE**

Grades 9-12 Year (05111A000)

These are smaller ensembles comprised of members of the symphonic and or concert band. Entrance into these groups is by competitive audition only. Practices are held on a rotating basis before, during or after school and in the evening. All groups perform on a regular basis for school functions and in the community. There is no academic credit for this group. Members must be involved in either Concert or Symphonic Band.

## CHOIR

**TREBLE CHOIR I** Grade 9-12 Year (05110A000)

This choir is reserved for freshman girls. Instruction emphasizes basic rhythmic skill, note reading, and fundamentals of vocal production. Attendance at all performances is required.

**TREBLE CHOIR III** Grades 10-12 Year (05110A000)

Treble III is a selective choir for which students must audition. It is a female group comprised of more advanced singers. Attendance at performances is required.

**TENOR/BASS CHOIR** Grades 9-12 Year (05110A000)

This ensemble is for male voices only. Instruction emphasizes basic rhythmic skills, not reading, fundamental theory, tonal memory, and basic vocal techniques. Grades encompass all of these skills as well as participation. Attendance at performances is a requirement.

**CONCERT CHORALE** Grades 10-12 Year (05110A000)

This ensemble is for the more advanced male and female singers and musicians. This group performs at various functions aside from concerts, at which attendance is required. Singers are expected to be able to independently manage ensemble music, have music reading skills, and an elementary knowledge of theory. Grades are based on the continued development of these skills. Because the performance schedule of this group tends to be heavier, only those students interested in advanced choral experiences should audition for this class.

**CONCERT CHORALE (H)** Grades 11 or 12 Year (05110A000)

This class is an extension of Concert Chorale, open to juniors and seniors. In addition to the regular Concert Chorale requirements, students will have to complete projects in the categories of instruction and performance, leadership and service, as well as a written project. A specific list of additional requirements is available from the instructor.



**SHOW CHOIR (LUNCH)** Grades 9-12 Year (05110A000)

Show Choir is one of the premier performing vocal ensembles at J.C.H.S. It meets one night a week and over lunch hour during the school year as well as throughout the summer. Admittance to this group is dependent on an audition at which singing strength and ability, tonal memory, and ensemble ability are tested. Dancing and acting skills are also assessed. Members must also be involved in one of the curricular choirs. Academic credit is not offered for this group.

**JAZZ CHOIR (LUNCH)** Grades 9-12 Year (05110A000)

Jazz choir is a selective group of singers. Practice sessions for this group are after school and over lunch hour. This choir sings a wide variety of music including jazz and pop. Community performance is a requirement for this group. Members must also be involved in one of the curricular choirs. Academic credit is not offered for this group.

## DRIVER'S EDUCATION/HEALTH/PE

### CLASSROOM DRIVER'S EDUCATION

Grades 9-12 9 Weeks (08151A000)

Prerequisite: Must be at least 15 years of age and passed 8 classes in the previous two semesters

In a nine week classroom setting the students will learn the skills, habits, and knowledge necessary for the safe and efficient operation of the automobile. The student will also learn the responsibilities of having a driver's license. Scheduling is done by birth date order. The final grade for the course will be A, B, C, D or F. Students must meet the state of Illinois attendance requirement of being in the class a minimum of 30 clock hours. There are no excused absences and failing to meet the attendance requirement will result the being dropped from the class. Students will be notified as to how many days they can miss.

Note: The number of days a student can miss will change with each quarter, as all 4 quarters have a different number of student attendance days.

### BEHIND THE WHEEL DRIVER EDUCATION

Grade 9-12 9 Weeks

Prerequisite: Must have a passing grade in Classroom Driver Education.

In the driver education car, the student will learn proper pre-driving steps, correct performance of skills and advanced maneuvers, proper eye habits, identification and interpretation of traffic controls, and correct responses to various situations. The student must complete six hours of driving instruction and twelve hours of observation during the course. J.C.H.S participates in the Secretary of State's Cooperative Driver Testing Program which allows the driver education teacher to give the final "Road Test" for a driver's license to the students earning an A or a B average in the Classroom and the Behind the Wheel combined.

### HEALTH Grade 10 Semester (08057A000)

Health is a one semester required course for every student. The class is designed to meet and exceed all state and national health standards. Students will learn positive health behaviors, how to become a health literate individual, and positive ways to promote wellness. Students will be exposed to the basics of human structure and functions, stress management, human sexuality, fitness and nutrition, as well as family/peer relationships, CPR and first aid. Students will have access to the latest technology, community support systems, and new teaching strategies that will appeal to all students having diverse learning styles.



### ADVANCED HEALTH Grades 11-12 Year 08052A000

Offered every other year (2019-2020, 2021-2022, 2023-2024)

Pre-Requisite: B grade or higher in Health

Advanced Health includes a background of knowledge necessary to provide each student with a comprehensive, personal fitness-training program. Basic concepts relating to exercise physiology, anatomy and kinesiology will provide the student with the framework necessary to understand general fitness training concepts. Personal assessments, goal sets and program design will allow each student to monitor individual progress. The course will provide specific exercise prescriptions, logged workouts, personal goal setting and analysis of current nutritional choices along with implementation of a personal nutritional plan. Buying, cooking, and preparing nutritional foods and meals. Vital signs, including but not limited to, blood pressure/sugar levels/heart rate/respiration/temperature/signs of shock will be introduced. CPR recertification is also a requirement of this class.

### PHYSICAL EDUCATION Grade 9-12 Semester (08001A000)

The Jersey Community High School physical education program provides students the knowledge needed for the development of physical fitness, sport skills and teamwork. These are skills necessary for enjoyable participation throughout life in a variety of athletic and recreational activities. Personal wellness, lifetime activities, cooperative learning activities, team sports, individual sports, team building concepts, are all incorporated through activities. Activity selection is based upon season, facilities available and class size. Students are evaluated based upon participation, skills and their growth throughout the activity.

### PE: STRENGTH TRAINING & CONDITIONING (Girls only or Mixed)

Grade 9-12 Semester (08009A000)

This course will emphasize improving students' strength, agility, endurance, and general fitness through a variety of activities that include weight training, core strengthening, aerobic activity, dynamic/static flexibility, distance running and speed training. Focus will be placed on the five components of fitness: muscular strength, muscular endurance, flexibility, cardiovascular endurance and body mass index. This dynamic program is proven at the collegiate level to increase fitness levels of all student athletes involved. It will also promote healthy lifestyle habits that are important for student achievement. This is an advanced class for the motivated student or athlete.

## SCIENCE

**ADVANCED CHEMISTRY (H)** Grades 11-12 Year (03102A000)

Prerequisite: Algebra II, Chemistry with a C or better. A or B in Chemistry is recommended.

This course is for those who intend to pursue science or technical courses at the college level. Included is a review and extensions of the concepts introduced in chemistry, solutions –molarity and molality, ionization theory, acid-base theory, chemical bonding, oxidation and reduction, Lewis dot diagrams and lab procedures. Other topics may be included as time, ability and interest of the students permit. These may include organic and biochemistry. Lab fee is $10.00.

**ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE (H)**

Prerequisite: 2 years of Science Grade 11-12 Year (03207A000)

This is a rigorous course designed to provide students with extensive background and training in all aspects of environmental science. Near the end of the second semester students will take the AP exam. Any student who passes the exam will be eligible to obtain college credit for environmental science. The course will examine the interdependence of earth's systems, renewable and nonrenewable resources, environmental quality, global changes and their consequences, and environment and society. Geology, biology, physics, and chemistry will be examined in detail as they relate to environmental concerns. Heavy emphasis will be placed on laboratory work. Students will complete a major project dealing with the environmental quality of a local stream. Lab fee is $10.00.

**ANATOMY AND PHYSIOLOGY** Grades 11-12 Year (03053A000)

Offered every other year (2018-2019, 2020-2021, 2022-2023)

Prerequisite: Biology and Chemistry

This year-long course is an intense study of the human body. Topics studied will be medical terminology, biochemistry, cell and tissue structure, and the eleven organ systems of the human body (skeletal, muscular, nervous, integumentary, endocrine, cardiovascular, respiratory, digestive, urinary, lymphatic, and reproductive). Concepts are reinforced through a variety of instructional methods such as lectures, laboratory activities and technological designs. Lab fee is $10.00.



**BIOLOGY SCIENCE IN AGRICULTURE**

Grade 9-12 Year (18101A001/18051A002)
Prerequisites: Algebra I Recommended
Offered every other year (2017-2018, 2019-2020, 2021-2022)

This course is designed to reinforce and expand the students' understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. Both plant science and animal science will be covered. Various laboratory exercises and experiments will be utilized throughout the course.

**BOTANY (H)** Grade 11-12 Semester (03058A000)

This course will be a study of the basic concepts of the plant kingdom, including where they live and how they grow. The concepts are morphology and physiology of plant form and parts, principles of plant classification, plant genetics, cell structure and function; classification of bacteria and viruses, functions and activities of plant types and plant ecology. Laboratory work, plant collection, course project, and oral reports are requirements for this course. Lab fee is $5.00.

**CHEMISTRY** Grades 10-12 Year (03101A000)

Prerequisite: B average Algebra I or Geometry

Chemistry is a course in general chemistry covering the atoms and elements of the periodic chart and their structure use in compounds. Basic mathematical relationships with regard to chemical concepts are included, such as laws, % composition, concentration of solutions, mass to mass, and mass to volume relationships. The course is intended to give a good general overview of important chemical elements, compounds, formula writing, and chemical equations. Course breakdown is about 1/3 applied math (some algebra) and 2/3 descriptive and manipulative, with lab experiments related to concepts. Lab fee is $10.00.

**FORENSICS** Grades 11-12 Year (03202A000)

Offered every other year (2019-2020, 2021-2022, 2023-2024)

Prerequisite: Physical Science, Biology, and Chemistry is strongly recommended.

Forensic Science is the study and application of science to matters of the law. The first semester focuses on the evolution of forensics, crime scene investigation, proper evidence collection, and manner of death. The second semester is a lab based course designed to give students hands-on experience in the skills and knowledge required of a forensic science lab technician. A mock crime scene will be processed, investigated, and analyzed at the end of the second semester. It will utilize all material learned throughout the year. Lab fee $10.00

**EARTH SCIENCE** Grade 10 Year (03008A000)

This laboratory course is designed to survey earth processes. Topics studied include the changing earth, earth materials, earth motions, energy flow, meteorology, oceans, climatic patterns, mountain formations, the earth's history and astronomy. Lab fee $10.00

**BIOLOGY CONCEPTS** Grade 9 Year (03062A000)

This introductory course will emphasize major biological concepts such as life characteristics, structure, and classification; plant, animal and environmental science; heredity, and evolution. Student expectations will be to utilize observations, experimentation, and technology to process, analyze, and synthesize life science concepts. Lab fee $10.00

**BIOLOGY** Grade 9 Year (03051A000)

This course is designed to introduce students to the structure and function of Eukaryotic cells. They will explore different processes affecting cellular function, genetics, and current scientific issues. The information will be reinforced through various laboratory experiments. The course is designed to prepare students for higher level biology courses and serves as a prerequisite for Chemistry, Anatomy and Physiology and Forensics. Lab fee $10.00.

**PHYSICAL SCIENCE** Grades 11-12 Year (03159A000)

This course will incorporate chemical and physical concepts reinforced by lab activities. Topics will include chemical bonds, elements, solutions, chemical reactions, and atoms. Physics topics will include motion and forces, acceleration and momentum, energy, machines, waves, light and sound. Lab fee is $10.00.

**PHYSICS (H)** Grade 11-12 Year (03151A000)

Prerequisite: Algebra II

Recommendation: Completion or current enrollment in Pre-Calculus/Trigonometry

This course is highly recommended for students interested in engineering and other technical fields. Basic physics concepts covered are motion in one dimension, motion in two dimensions, energy and work, rotational motion, and thermodynamics. Lab fee $10.00.



**VETERINARY SCIENCE** Grade 11-12 Year (18105A001)

(offered even years 2016-2017, 2018-2019, 2020-2021)

This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

**ZOOLOGY (H)** Grade 11-12 Semester (03061A000)

The course provides students with a logical growth pattern for an understanding and appreciation of zoological concepts. The concepts are to understand scientific procedures, to know the biological code of life, understand cell morphology and physiology, principles of animal classification, and the study of anatomy and physiology of animals. Requirements include laboratory work, course project, and oral reports. Lab fee is $5.00.

## SOCIAL STUDIES

**WORLD HISTORY I** Grade 9 Semester (04051A000)

This course covers the ancient times of world history as related to the western world. Units of study include Foundations of Civilizations, Sumer, Babylon, Persia, Egypt, the Jewish Religion, Greece, Roman, and Christianity. There will be discussion topics, worksheets, films and maps.

**WORLD HISTORY II** Grade 9 Semester (04051A000)

This course begins with the fall of the Roman Empire. We then proceed into the rise of Europe and the high and late Middle Ages. This is followed by a study of the religion of Islam, the Renaissance. There will be discussion topics, worksheets, films and maps.

**UNITED STATES HISTORY** Grade 11 Year (04103A000)

This class begins with a brief overview of American history up to 1914. In depth units during the first semester include World War I, the Roaring Twenties, the Great Depression and World War II. Second semester units include the Fabulous Fifties, a general overview of the Cold War (to 1991), the Vietnam Conflict, Protest and Civil Rights, the Watergate Era and U.S. relations with the Middle East. Throughout all of the above units, studies consider the political, social and international aspects to varying degrees.

**REGIONAL GEOGRAPHY I** Grade 10-12 Semester (04001A000)

This class covers a study of regions of the Western Hemisphere namely North and South America. Study includes topography, climate, vegetation and the various "man-made" systems--government, economics, religion and culture. Current problems will be surveyed.

**REGIONAL GEOGRAPHY II** Grade 10-12 Semester (04001A000)

This class studies those world regions not covered in Regional Geography I, namely Europe, Asia, and Africa. The class will examine topography, climate, vegetation as well as political systems, economics, religion and culture. Current problems will be surveyed.

**LAW FOR LIVING** Grade 12 Semester (04162A000)

This class spends the first nine weeks surveying the criminal justice system, with emphasis on enforcement, the courts and correction system. The second quarter examines the field of civil law, with units on consumer law, family law, housing law and the individual liberties under American jurisprudence.



**AMERICAN GOVERNMENT** Grade 12 Semester (04151A000)

This course provides an overview of the U.S. Constitution and the accompanying political system. In addition to preparing the students for the U.S. Constitution test and the Illinois Constitution test (both are state requirements), the course also helps students to examine their own political beliefs through the prism of current policy issues and personal ideology. The curriculum helps young people acquire and learn to use the skills, knowledge, and attitudes that will prepare them to be competent and responsible citizen throughout their lives. There is a strong focus on government institutions and the discussion of current and controversial issues. Simulations of the democratic process and Service Learning are also a part of the course content.

**CURRENT EVENTS** Grade 10-12 Semester (04064A000)

This class, using the newspaper, radio, and television, will study and discuss the issues and events that "MAKE THE NEWS". Some topics to be examined are: AIDS, capital punishment, drugs, education, the media, terrorism, health & fitness, and election of the President.

**SOCIAL STUDIES READINGS** Grade 12 Semester (04297A000)

Instructor approval required to take this course. The student, if accepted into the program, will be appointed a mentor. Student and mentor mutually agree on a topic and the student does research for the entire semester. A research paper and oral report to the mentor is required for credit. The student meets each week with mentor to discuss problems that may arise. Only students with strong academic backgrounds and completion of all social studies course offerings may apply.

**MACRO ECONOMICS (H)/ECON 151** Grade 11-12 Semester (04201A000)

This class is a dual credit course with Lewis and Clark Community College. The class is the study of our nation's economy and current banking practices in the United States. Areas to be covered include types of business and the production cycle, supply and demand, and history of banking and the Federal Reserve System. Students should be able to explain why current economic situations exist based on the concepts they are taught. This class is for college bound students.

**MICRO ECONOMICS (H)/ECON 152** Grade 11-12 Semester (04201A000)

This class is a dual credit course with Lewis and Clark Community College. The class explores components of the United States economy; supply and demand analysis; theories of consumer, firm and government behavior; market structures; and current economic problems.

**PSYCHOLOGY** Grades 11-12 Year (04254A000)

This course introduces students to the scientific study of behavior and mental processes of humans and other animals. Topics to be explored include research methods, biological basis for behavior, psychological disorders and their treatment, sensation and perception, states of consciousness, memory, thinking, language, learning, motivation, personality, human development and social psychology.



## AGRICULTURE OCCUPATIONS

**INTRO TO THE AGRICULTURE INDUSTRY** Grade 9 Year (18001A001)

This orientation course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in public speaking, parliamentary procedures, animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics (welding), will be presented. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. **A minimum project fee of $20.00 will be assessed in the spring semester for welding. The cost may increase due to an increase in metal and welding supplies.**

**BASIC AGRICULTURAL SCIENCE** Grades 10-12 Year (18003A001)

This second year course builds on the basic skills and knowledge gained from the introductory course. Major units of instruction include advanced plant & soil science, advanced animal science and agricultural mechanics skills necessary for maintaining and repairing equipment and/or facilities with emphasis on small engines. Applied math/science skills are stressed throughout the course. Microcomputer applications are utilized as they relate to each instructional unit. Continued leadership skills and participation in the FFA activities will be stressed throughout the course.

**AGRICULTURAL CONSTRUCTION & TECHNOLOGY**

Grade 11-12 Year (Meets 2 hours daily - 2 credits) (18403A001)

A combination of subject matter and experiences designed to develop skills & knowledge of agricultural construction will be covered. Areas of study will include surveying, concrete and masonry, construction on small and large scale, basic wiring, electric motors and electric controls.

**BIOLOGY SCIENCE IN AGRICULTURE** Grade 9-12 Year

Prerequisites: Algebra I Recommended (18051A002, 18101A001)
Offered every other year (2017-2018, 2019-2020, 2021-2022)

This course is designed to reinforce and expand the students' understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. Both plant science and animal science will be covered. Various laboratory exercises and experiments will be utilized throughout the course.

**BASIC HORTICULTURE SCIENCE** Grades 10-12 Year (18052A001)

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 Greenhouse Production and Floral Design. 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. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

**AGRICULTURAL MACHINERY SERVICES**

Grades 11-12 Year (Meets 2 hours daily-2 credits) (18449A001)

Prerequisite: Agricultural Science or Small Engine Repair recommended

This course provides opportunities for students to develop knowledge and skills in agricultural mechanics. The major areas of emphasis will be use of service manuals, electrical application for equipment, fundamentals of multi-cylinder engines, reconditioning and repairing of agricultural equipment and assembling and adjusting agricultural equipment. Instruction will emphasize safety practices and procedures.



**GREENHOUSE PRODUCTION AND FLORAL DESIGN** (18053A001)

Prerequisite: Basic Horticulture Science Recommended Grade 11-12 Year

This course focuses on the greenhouse management, floral design and related segments of the horticulture industry. Major units of study include floriculture plant identification, greenhouse structures, and the culture of greenhouse crops. Also included are care and handling of cut flowers, principles of art applied to floral design, and the mechanics of floral design. Agribusiness units will be introduced in merchandising, advertising, sales, and operating a retail floral business. Students will spend over 50% of their time in the Ag Department's greenhouse. During this time, their grades will be based on the success of the plants in the greenhouse. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

**VETERINARY SCIENCE** Grade 10-12 Year (18105A001)

(offered even years 2016-2017, 2018-2019, 2020-2021)

This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

**SUPERVISED AGRICULTURAL EXPERIENCE (SAE) I** (18347A000)

Grade 9-10 Year

This course is designed to establish knowledge and skills in various agricultural careers. Students will gain credit by establishing a project at their home, at a local business, or at their school usually after normal school hours. Example projects may include, but not limited to: working at a garden center, raising vegetables/grain/livestock, conducting agriscience experiments in a greenhouse, and training horses at a stable. Students will be required to verify their experiences by keeping written or computerized records including: business agreements, budgets, inventories, daily activities, hours worked, income and expenses, total earnings, depreciation, and net worth. Instructor supervision will be conducted to the student's home or place of employment. SAE records should be evaluated at least once per month. In addition, SAE lessons are integrated in each agricultural course. SAE participation can lead to fulltime employment, scholarships, and awards through the FFA.

**SUPERVISED AGRICULTURAL EXPERIENCE (SAE) II** (18347A000)

Grade 11-12 Year

This course is designed to improve and expand knowledge and skills in various agricultural careers. Students will gain credit by continuing a project at their home, at a local business, or at their school usually after normal school hours. Students are encouraged to add additional projects, experiences, scope, and growth involving managerial and decision making skills. Students will be required to verify their experiences by keeping written or computerized records including: business agreements, budgets, inventories, daily activities, hours worked, income and expenses, total earnings, depreciation, and net worth. Instructor supervision will be conducted to the student's home or place of employment. SAE records should be evaluated at least once per month. In addition, SAE lessons are integrated into each agricultural course. SAE participation can lead to fulltime employment, scholarships, and awards through the FFA.



## BUSINESS EDUCATION

**BUSINESS CONCEPTS**

Grades 10-12 Year (12001A001)

This orientation-level course will provide an overview of all aspects of business marketing and management, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership, including entrepreneurship, as well as the basic functional areas of business (finance, management, marketing, administration and production). Students will be introduced to a wide range of careers in fields such as accounting, financial services, information technology, marketing, and management. Emphasis will be placed on using the computer while studying applications in these careers along with communication skills (thinking, listening, composing, revising, editing, and speaking), math and problem solving. Business ethics as well as other workplace skills will be taught and integrated within this course. This course is not intended to meet the consumer education requirement, but rather to provide preparation for the skill level courses that make up the Business, Marketing and Management occupations programs. Dave Ramsey Financial Peace University is a supplement that is used in this course.

**COMPUTERIZED ACCOUNTING**

Grades 10-12 Year *Math credit Senior year only (12104A001)

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

**MARKETING 1/BUSN 131**

Grades 10-12 Semester 1 (12055A001)

Every other year (2015-2016, 2017-2018, 2019-2020)

This course along with Marketing 2 form a dual credit partnership with Lewis and Clark Community College. This course explores the basic principles of marketing such as the creation of concepts strategies, and the development of marketing plans. Students learn about the components of the marketing mix, target marketing, sponsorship, event marketing, promotions, proposals, and execution of planning. This course emphasizes strong decision making, critical thinking, and collaborative skills to complete group marketing projects throughout the semester. Marketing introduces students to this exciting field, which includes advertising, consumer research, product development, packaging and selling. Students will be challenged to create new marketing ideas as they analyze current marketing trends. Students will also explore the legal aspects of these industries. Real life projects allow students to demonstrate their understanding of these areas. This course will examine the impact of marketing in our everyday lives, as well as teach many critical business concepts to ready students for a career in the area of marketing.

**MARKETING 2/BUSN 131**

Grades 10-12 Semester 2 (12153A001)
Every other year (2015-2016, 2017-2018, 2019-2020)

Fashion Merchandising focuses on the application of research techniques to understand the cultural, environmental, and psychological aspects of textile products as related to the customer needs. This course develops skills to research and apply knowledge of a product for the textile and design industry through hands-on, problem based learning experiences and projects. Topics include: product knowledge and promotion; industry trends and style; industry specific terminology; marketing campaigns; current technology; and visual merchandising displays. Emphasis is placed on the development of variety of communication techniques necessary in the promotion of products and the formation of client relationships.

**ADOBE PHOTOSHOP** Semester 1 Grades 9-12 (10202A001)

This course provides students with the opportunity to use the computer to produce visual imagery and to apply graphic techniques to various fields, such as advertising, TV/video, and architecture. Course topics include modeling, simulation, animation, and image retouching. It also introduces the creation and manipulation of digital images using an image manipulation program. Includes palettes, commands, and tools; working with layers; using and editing color; and editing images.



**ADOBE ILLUSTRATOR** Semester 2 Grades 9-12 (10202A001)

This course provides students with the opportunity to use the computer to produce visual imagery and to apply graphic techniques to various fields, such as advertising, TV/video, and architecture. Course topics include modeling, simulation, animation, and image retouching. It also introduces the creation and presentation of quality charts, graphs, graphics, and typographic designs. Emphasis is on learning to use the Adobe Illustrator tools and developing skills which are necessary for effective communication of ideas through the creative use of layout and color, typography, and graphic design.

**ADOBE PREMIER** Semester 2 Grades 10-12 (10202A000)

Prerequisite: Successful completion of either Adobe Photoshop or Illustrator

For students interested in Video Editing and adding special effects to their videos. Adobe Premiere Pro CC teaches you the technical skills for video production, editing, and effects. Students are given a small task within each lesson where students are learning and refining their skills as they complete a project and then expand on their own videos.

**ADOBE INDESIGN** Semester 1 Grades 10-12 (10202A001)

Prerequisite: Successful completion of either Adobe Photoshop or Illustrator

Indesign will show students how to create posters, flyers, brochures, magazines, newspapers, presentations, books and ebooks. You can easily export documents to different formats and screens, exporting to multiple screens, and using adaptive layouts for viewing on different devices. Students will be in Adobe InDesign every day and will have the opportunity to design and create their own layouts as well as daily tasks to improve their skills.

**ADVANCED ACCOUNTING** Year Grades 11-12 (12104A002)

Accounting II is a course that builds upon the foundation established in Accounting I. This course is planned to help students to develop deeper knowledge of the principles of accounting with more emphasis being placed on financial statements and accounting records. It is a study of previously learned principles as they apply to the more complicated types of business organizations: partnerships, corporations, branches, etc. The students may become familiar with such specialized fields of accounting as cost accounting, tax accounting, payroll accounting, and others. Some students may choose to do specialized accounting computer applications, and others may elect payroll clerk, data processing computer applications. Simulated business conditions may be provided through the use of practice sets. Skills are developed in the entry, retrieval, and statistical analysis of business data using computers for accounting business applications.

## FAMILY AND CONSUMER SCIENCES

### NUTRITION AND CULINARY ARTS I

Grade 9-12 Semester (16054A001)

This course includes classroom and laboratory experiences needed to develop a knowledge and understanding of culinary principles and nutrition for people of all ages. Course content encompass ': food service and preparation management using the decision-making process; meeting basic needs by applying nutrition concepts; meeting health, safety, and sanitation requirements; maximizing resources when planning/preparing/preserving/serving food; applying hospitality skills; analyzing nutritional needs in relation to change; and careers in nutrition and culinary arts, including entrepreneurship investigation.

### NUTRITION AND CULINARY ARTS 2

Grades 9-12 Semester (16054A002)
Prerequisite: Nutrition and Culinary Arts I

Nutrition and Culinary Arts II provides principles of application into the hospitality industry, including nutrition, culinary, and entrepreneurial opportunities. Course content includes the following: selection, purchase, preparation, and conservation of food, dietary needs and trends, regional & international cuisine, safety and sanitation, careers in food service industries .All of these concepts can be interpreted through laboratory experiences.

### INTRODUCTION TO DESIGN I

Grades 9-12 Semester (19204A001)

This course prepares students for employment and higher education programs of study related to the broad spectrum of careers encompassed in fashion, apparel, and textile industries. This course provides students with opportunities to: analyze the influences of social, cultural, and environmental diversity in the fashion, apparel, and textile industry; investigate applicable regulatory and policy issues; assess product quality; develop a design portfolio; refine and develop industry skills necessary to employment in fashion, apparel, and/or textiles; model proper safety procedures; communicate with potential customers/clients using industry terminology; perform operational functions; and research current industry employment opportunities, including the investigation of entrepreneurship.



### INTRODUCTION TO DESIGN II

Grades 9-12 Semester (22211A001)

Prerequisite: Introduction to Design I

This course provides basic knowledge and skills needed to select, acquire, furnish, maintain, and manage residential and commercial environments to meet the needs of the users/occupants. The course includes the application of the interior design elements and principles; selection and care of furnishings, equipment and accessories in relation to socio-economic factors, trends, personal tastes and characteristics, as well as physical and psychological needs; safety, sanitation, and efficiency factors in interior design; and evaluating use and care of textiles. This project based course investigates a variety of related career opportunities, including entrepreneurship. Emphasis is placed on the application of project management skills.

## INDUSTRIAL EDUCATION

## INDUSTRIAL TECHNOLOGY CLASSES

1. ALL STUDENTS ARE REQUIRED TO PROVIDE THEIR OWN SAFETY GLASSES. (APPROXIMATE COST $5.00)
2. THE PREREQUISITE FOR A JUNIOR VOCATIONAL CLASS MAY BE WAIVED WITH TEACHER AND ADMINISTRATION APPROVAL IF THE CLASS HAS AVAILABLE SPACE.

## INDUSTRIAL EDUCATION ORIENTATION

Grade 9 Year (20001A001, 21052A002)

This 9th grade course is a series of 9-week classes rotating through four different areas. The areas are Transportation (Power Mechanics) Production (Wood Shop) Communications (Drafting), and a fourth rotation to be determined. The course is comprised of the following areas: Production, Transportation, Communication, Energy Utilization and Engineering Design but is not limited to these areas only. This course will cover the resources, technical processes, industrial applications, technological impact and occupations encompassed by that system. The student will have a variety of experiences looking at each area and will include some shop activities. Students will be introduced to basic technologies, resources, and industrial processes. While some bookwork is required, emphasis is on exploring the four areas. Class enrollment is limited and past grades are reviewed. Material fees are charged in each area with possible minimum of $30.00 for the year.

## SMALL ENGINE REPAIR

Grade 10 Semester (20110A001, 20110A002)

Prerequisite: Industrial Orientation with a minimum "B" average

Small engine repair is an instructional program that prepares individuals to troubleshoot, service, and repair a variety of small internal-combustion engines, involving both two and four cycle engines used on portable power equipment. This course will be designed to provide the student with the opportunity to complete specialized study in the service and repair of small engines and related systems. Some of these areas may include chain saw repair, snow blower repair, snowmobile repair, generator repair, motorcycle repair, etc. Planned activities will allow students to become knowledgeable of fundamental principles and technical skills related to troubleshooting, repairing, identifying parts and making precision measurements. Other areas that will be covered deal with electrical, systems, ignition systems, drive train and chassis systems. Safety will be a key component of this class. Students will also be exposed to career opportunities related to small engines. Shop fee required.



## AUTOMOTIVE TECHNICIAN I

Grade 11 Year Meets 2 periods daily-2 credits (20104A001)

Prerequisite: Small Engine Repair I/II with "B" average

This course introduces students to the basic skills needed to inspect, maintain, and repair automobiles and light trucks that run on gasoline, electricity, or alternative fuels. Instructional units include engine performance, automotive electrical system, integrated computer systems, lubrication, exhaust and emission control, steering and suspension, fuel systems, cooling system, braking, and power train. Shop fee required.

## AUTOMOTIVE TECHNICIAN II

Grade 12 Year Meets 2 periods daily-2 credits (20104A002)

Prerequisite: Automotive Technician I with "B" average

This course is a continuation of and builds on the skills and concepts introduced in Automotive Technician I. This course includes instructional units in alternative fuel systems, computerized diagnostics, new vehicle servicing, automotive heating and air conditioning, transmissions, testing and diagnostics, drive train and overall automobile performance. Shop fee required.

## ARCHITECTURAL/MECHANICAL DRAFTING I

Grades 11-12 Year (21103A001, 21106A001)

Prerequisite: C grade in Drafting/Approval by instructor. This course is a partnership with Lewis and Clark Community College, and students may receive both high school and college credits (3) by meeting the class's requirements & guidelines. This course is designed to provide students with information and practical experience needed for the development of job-related competencies. Students will learn of the career opportunities available in the Architectural Drafting and Architectural Drafting CAD - CADD field. Instruction is provided in the areas of planning and organizing activities, researching information, performing general office procedures, preparing of preliminary drawings, basic layout, detail drawings, reproduction techniques, producing working drawings, and computer aided drafting.

Students are also provided with instruction in producing architectural drawings in the areas of presentation, floor plans, illustration of landscape features, sketching preliminary floor plans, drawing foundation plans and sections, exterior elevations, stair sections, chimney sections, roof sections, finish schedules, preparing plumbing, HVAC and electrical plans, and structural drawings. This course introduces students to layout to scale using specified tolerances, preparing detail drawing for individual parts from drawings, layout and creating assembly drawings, and preparing mechanical orthographic subassembly drawings. This course also includes a sequence of CAD experiences in 2-dimensional and 3-dimensional drawing generation to include vocabulary development, system operation, entity creation, dimensioning and text insertion, plotting, 3- dimensional coordinate system, 3-D parts detailing and assembly drawings, wire frame models, and system management relative to hard disk and tape storage systems.

**ARCHITECTURAL/MECHANICAL DRAFTING II**

Grade 12 Year (21103A002, 21106A002)

Prerequisite: B grade in Architectural/Mechanical Drafting or approval by instructor. This course is a partnership with Lewis and Clark Community College, and students may receive both high school and college credits (3) by meeting the class's requirements & guidelines. Instruction is provided in the areas of locating information using computer data files, determination of materials and availability, project conferences, checking plan dimensions, drawing schematic sketches, preparing scale sketches, producing drawings from written/verbal instructions, application of coordinate dimensioning standards, creating drawings using a plotter/printer, producing renderings &/or charts and graphs, & common plan features. Instruction is also provided in the areas of drawing framing plans, wall sections, fireplace sections, door sections, door and window schedules, dimensioning structural steel drawings, constructing column detail drawings, preparation of structural foundation, slab & floor plans, drawing electrical, block, schematic, & electrical connection drawings. Skills relating to CAD include preparation of a basic CAD drawing, building & editing a data base, developing a 3-dimensional drawing & selecting appropriate line work, line weight, & color. Instruction is provided in the areas of identifying appropriate interfacing personnel (internal/external), producing renderings & project time schedules, producing structural working drawings as structural steel plans, dimension structural steel drawings, & draw beam connections, and producing electrical and electronic working drawings as electrical and electronic schematic diagrams. Additional skills introduced in this program include determining the requirements of a specific drafting job, preparing preliminary drawings such as freehand, isometric, orthographic, and oblique sketches; preparing detail drawings such as creating assembly drawings, orthographic projections, sectional views, auxiliary views, isometric views and letter drawings; producing mechanical working drawings such as detailing components of mechanical orthographic assembly & subassembly drawings; using CAD command processes as preparing a basic CAD drawing, start up, log on, retrieve, save, log off & shut down CAD system; creating disk files, copying disk files, & generating a grid on drawing.



**WELDING TECHNOLOGY I** Grades 10-12 Semester (13207A001)

This course is a partnership with Lewis and Clark Community College, and students may receive both high school and college credits (3) by meeting the class's requirements & guidelines. This course assists students in gaining the knowledge and developing the basic skills needed to be successful in welding technology. . Units of instruction include arc, TIG and MIG welding, metallurgy, cutting metal using arc, plasma, and oxy -gas. In addition, students learn the basics of blueprint reading, precision measuring, layout, and production process planning. Shop fee required.

**ADVANCED WELDING TECHNOLOGY** (13207A002)

Prerequisite: Welding Technology I Grades 11-12 Semester

This course is a partnership with Lewis and Clark Community College, and students may receive both high school and college credits (3) by meeting the class requirements & guidelines. This course builds on the skills and concepts introduced in Welding Tech I and provides more in -depth skill development in various types of welding including horizontal, vertical, overhead, and circular techniques. Students also explore the use of robotic and automated production welding. Shop fee required.

**CONSTRUCTION TRADES I** Grades 11- 12 Year (17002A001,17002A002)

Prerequisite: Woods or Mach Woods recommended.

This course provides experiences related to the erection, installation, maintenance and repair of residential buildings and related fixtures and building structures and related utilities. Learning activities allow students to understand fundamental principles & methods, & develop technical skills related to masonry, carpentry, and finish work. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, local, state, and national codes, cost estimating, and blueprint reading. Student technical skill experiences include instruction, activities in safety principles and practices, performing maintenance control functions, joining pipes, building water distribution lines & drains, installing and maintaining plumbing fixtures and systems, installing switch and outlet boxes, light fixtures, service entrances, roughing in and trimming out electrical devices and appliances, preparing foundations and footings, constructing residential, chimneys and fireplaces, laying, jointing & pointing brick, & advanced building & construction methods & codes. All learning experiences are designed to allow the student to acquire job-entry skills and knowledge. Shop fee required.

**CONSTRUCTION TRADES II** Grades 12 Year (17002A001,17002A002)

Prerequisite: Construction Trades I

This course provides more in-depth skill development in various types of construction trades. Students will perfect the job-entry skills and knowledge acquired in Construction Trades I. Students will be expected to work independently and show leadership skills. Shop fee required.

**DRAFTING** Grade 10 Semester (21102A001)

Drafting introduces students to the technical craft of drawing illustrations to represent and/or analyze design specifications and then refine the skills necessary for this craft. This course use exercises from a variety of applications to provide students with the knowledge & experience to develop the ability to perform freehand sketching, lettering, geometric construction, & multi-view projections & to produce various types of drawings. Computer-aided drafting (CAD) systems are typically introduced & used to fulfill course objectives.

**MANUFACTURING TECHNOLOGY 1** Grades 11-12 Year

(21010A000, 21010A001)

This course will introduce the basic manufacturing process, procedures, concepts of programming, set up and operation of CNC Machining Center. Students will identify and understand basic programming codes as well as the functions of the CNC machining controls. Planned activities will allow students to create geometry and tool paths from the specifications on a blueprint for simple parts using CNC software. Instruction includes use of AutoCAD, Inventor, and Meshmixer programs as well as safety practices and proper use of the CNC manufacturing machines. Tools and machines used include lathe, mills, drill press, micrometer and dial c.

**MANUFACTURING TECHNOLOGY 2** Grade 12 Year

(21010A000, 21010A001)

This course will continues the education of the manufacturing process, procedures, concepts of programming, set up and operation of CNC Machining Center. Students will identify and understand advanced programming codes as well as the functions of the CNC machining controls. Planned activities will allow students to create geometry and tool paths from the specifications on a blueprint for simple parts using CNC software. Instruction includes the use of AutoCAD, Inventor, and Meshmixer programs as well as safety practices and proper use of the CNC manufacturing machines. Tools and machines used include lathe, mills, drill press, micrometer, dial calipers, scales and other tools associated with machine shops.



**ROBOTICS** Semester Grades 10-11 21008A001

Robotics is a CTE Course to develop and expand students' skills and knowledge so that they can design and develop robotic devices. Topics covered in the course may include mechanics, electrical and motor controls, pneumatics, computer basics, and programmable logic controllers.