

JOHNSTON CITY HIGH SCHOOL



Curriculum Guide

2020-2021

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HIGH SCHOOL GRADUATION REQUIREMENTS

The total number of credits required for graduation is as follows:

Class of 2021	26
Class of 2022	26
Class of 2023	26
Class of 2024	26

1. Four credits in English (English I, II, III, IV);
2. Three credits in Mathematics (with one year of Algebra I and one year of a course that includes Geometry content);
3. Two credits in Science;
4. One credit in American History;
5. One-half credit in Consumer Education;
6. One-half credit in U.S. Government, includes Civics;
7. Three and one-half credits in Physical Education (Total P.E. classes and P.E. Waivers);
8. One-half credit of Driver's Education;
9. One-half credit in Health;
10. One half credit in Global Studies;
11. One credit in a Vocational area
12. Nine elective courses

In addition, no student shall receive a certificate of graduation without passing a satisfactory examination on patriotism and principles of representative government, proper use of the flag, methods of voting and the pledge of allegiance. The building principal is responsible for notifying students and their parents/guardians of the district's graduation requirements.

Because SAT will be administered as the state assessment in high school, it fulfills the requirement in Section 2-3.64a-5 of the School Code that students take the state assessment (further defined as an assessment for college and career readiness) in order to receive a regular high school diploma, unless eligible to take the alternative assessment or otherwise exempt from testing.

ALTERNATIVE SOURCES OF HIGH SCHOOL CREDIT

Students may earn and apply toward graduation and the awarding of a Johnston City High School diploma no more than three (3) total credits, consisting of no more than one (1) credit in English, one (1) credit in Math, and one (1) credit in any other subject area. Exceptions may be made on an individual basis upon consultation with the guidance counselor and principal.

Students unable to graduate from Johnston City High School will be provided with counseling regarding alternative diplomas and/or certificates.

JOHNSTON CITY HIGH SCHOOL CREDIT RECOVERY PROGRAM

Acceptance into the program is based upon, but not limited to: the student's age, the number of credits required for graduation, life circumstances at the time, and the desire to complete high school. Priority is given to students who demonstrate the greatest interest and need. Students must be referred to the program and approved for enrollment into the program by the admissions committee.

EARLY GRADUATION

Early graduation is not allowed. In extreme situations, the Board of Education may allow an exception to this rule.

RE-ENROLLMENT

Re-enrollment shall be denied to any individual above the age of 17 years who has dropped out of school and who could not earn sufficient credits during the normal school year(s) to graduate before his/her 21st birthday. A person denied re-enrollment will be provided counseling and be directed to alternative educational programs, including adult education programs that lead to graduation or receipt of a general education diploma (GED).

SCHEDULE CHANGES

Schedule changes are permitted 5 days before the start of each semester and five days after the start of each semester. Schedule changes after this time are *not* permitted. Students enrolled in full credit courses (year-long) will not be allowed to drop unless they have failed the first semester.

DROPPING YEAR-LONG COURSES:

Dropping of year-long courses in the second semester is not permitted unless the student has failed the first semester of the course.

STUDENT SCHEDULE PLAN SHEET FOR HIGH SCHOOL

NAME _____

*Indicates semester courses

Note that students must use one elective to complete a credit in any vocational area before graduation.

FRESHMAN YEAR

Honors English I/English I
Mathematics _____
Science _____
Physical Education _____
Vocational Elective
Elective (Two Credits)

SOPHOMORE YEAR

Honors English II/English II
Mathematics _____
Science _____
Physical Education/Dr. Ed. _____
Health I*/Global Studies*
Elective (Two Credits)

JUNIOR YEAR

Honors English III/English III
Mathematics _____
American History
Physical Education _____
Electives (Three Credits)

SENIOR YEAR

Honors English IV/English IV
Consumer Education*
U.S. Government & Civics *
Physical Education _____
Electives (Four Credits)

You and your parents may use the sheet as a guideline to aid you in planning your four-year class schedule. You may wish to discuss the schedule with your homeroom teacher, guidance counselor, or principal. Please feel free to contact the high school at any time concerning your child's schedule. The number is 983-8638 or 983-4700.

COLLEGE OR UNIVERSITY ENTRANCE REQUIREMENTS

Students are responsible for meeting the requirements of colleges and universities that they may wish to attend. The Guidance Office has available resource books with this information, and colleges provide catalogs with more complete requirements. Students should request catalogs from colleges they are interested in attending.

Suggested Course Requirements for Admission to Illinois Public Universities:

- Four years of English (emphasizing written and oral communication and literature);
- Three years of Social Studies (emphasizing history and government);
- Three years of Mathematics (introductory through advanced Algebra, Geometry, Trigonometry);
- Three years of Science (laboratory courses, such as biology, chemistry or physics are preferred. General Science is usually not accepted) and;
- Two to three years of electives chosen from Music, Art, Foreign Language (**Note:** Some colleges/universities require foreign language...check the requirements of the post-secondary institution of your choice for further explanation.)

The **Foreign Language Requirements** for the Illinois State Universities effective 2019 are listed on pages six and seven. Please check with the actual college admissions office to make sure no changes in their policy have taken place.

The law permits students to redistribute up to three of the 15 units among the subject areas. No more than one unit each (for a total of three) from the categories of social studies, mathematics, science, and electives may be redistributed to any of the five categories of course work.

The law permits universities to admit applicants who do not meet the university admission requirements. Universities may admit: 1) students who can demonstrate knowledge and skills substantially equivalent to those expected of students who completed a college-preparatory curriculum in high school; 2) applicants who did not have a chance to complete a college-preparatory curriculum in high school; and 3) educationally disadvantaged applicants. For the latter two groups, institutions are required to incorporate in the applicant's baccalaureate curriculum courses or other academic activities that compensate for course deficiencies.

In addition to high school courses taken by an applicant, universities will continue to use other information (such as entrance examination scores, high school rank, or high school grade point average) in making admission decisions.

State Universities in Illinois — At a Glance

Summary of Minimum High School Course Requirements for Admission of Freshman to Illinois Public Universities —Effective 2019—

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

NOTES:

- + Suggested Electives - includes other academic courses.
1. Emphasizing written and oral communication and literature.
2. Three units of English must be courses emphasizing written and oral communication and literature.
3. Studies in language, composition, and literature requiring practice in expository writing in all such work. Coursework should emphasize reading, writing, speaking, and listening.
4. Emphasize history and government.
5. One unit must be U.S. history or a combination of U.S. history and government.
6. At least 2 years of history and/or government; other acceptable subjects are anthropology, economics, geography, psychology, and sociology.
7. History and government are preferred. Additional acceptable social studies include anthropology, economics, geography, philosophy, political science, psychology, and sociology.
8. Introductory through advanced algebra, geometry, trigonometry, or fundamentals of computer programming.
9. College preparatory mathematics, including one year of geometry and one year of advanced algebra and/or trigonometry.
10. Algebra I & II, and a proof-based geometry course. A fourth unit is highly recommended: trigonometry and pre-calculus, or statistics, depending on the student's area of interest.
11. Algebra, geometry, advanced algebra, trigonometry. Typically, such courses as career/occupational mathematics, consumer mathematics, applied business mathematics, pre-algebra, and computer courses are not acceptable. 3.5 years of mathematics including trigonometry are required in the following curricula: Agricultural, Consumer and Environmental Sciences – agricultural engineering; Business – all curricula; Engineering – all curricula; Fine and Applied Arts – architectural studies; Liberal Arts and Sciences-specialized curricula in biochemistry, chemical engineering, chemistry, geology, and physics.
12. Laboratory courses in biology, chemistry, or physics are preferred. Laboratory courses in astronomy and geology are also acceptable. General science will not be acceptable.
13. Two units must be courses in the physical or biological sciences. One unit must be a laboratory science.

**Illinois State University Foreign Language Requirements for
Admission and Graduation
Effective 2019**

University	Foreign Language Requirement for Admission	Foreign Language Requirement for College Graduation
Chicago State University	Not required	<u>All Programs</u> -- Six hours of college language (can be met by assessment/proficiency test or college level courses only)
Eastern Illinois University	Not required, 2 years recommended	Two semesters of college language (can be met by 2 years of single foreign language in high school with "C" or better average)
Governor's State University	2 years of one foreign language or 2 years of fine arts	Not Required
Illinois State University	2 years of one foreign language or 2 years of fine arts	<u>Colleges of Arts and Sciences</u> -- Two semesters of college language (can be met by successful completion of 3 years of same foreign language in high school). American Sign Language may be used to fulfill this requirement by transfer credit or by proficiency. <u>Bachelor of Arts</u> -- Three semesters of college language (may be met by proficiency test or college level courses only)
Northeastern IL University	Not required	Not Required
Northern Illinois University	Humanities; 2 years of foreign language or combination of language, art, music, theatre	<u>Bachelor of Arts</u> -- Two years of one foreign language at the college level (can be met by 4 years of one foreign language in high school with "C" or greater in each course)
Southern Illinois University Carbondale	Not required; used toward fulfillment of 2 year elective requirement. Must include two semesters of the same language	<u>College of Liberal Arts</u> -- One year (2 courses) of college language (met by college coursework or exam only) some degrees in College of Liberal Arts are exempt.
Southern Illinois University Edwardsville	Not required- 2 years recommended	<u>Bachelor of Arts</u> -- College language required (met by college level coursework only)
University of Illinois Chicago	Not required- 2 years recommended	<u>College of Business Administration</u> -- 2 semesters at collegiate level; can be waived with 2 years at the high school level or if students' native language is not English. All Programs in the College of Liberal Arts and Sciences, Urban Planning and Public Affairs, as well as the Public Health, and Art History: Four semesters at the collegiate level.

University	University	Foreign Language Requirement for Graduation
University of Illinois Springfield	2 years of one foreign language or 2 years of fine arts	Honors students must have 2 years of one language
University of Illinois Urbana/Champaign	2 years of one language required. 4 years recommended	<u>Colleges of Business and Liberal Arts and Sciences</u> -- up to the 4th. collegiate level of foreign language (can be met by 4 years of one high school foreign language) <u>All Other Colleges</u> -- up to the 3rd. collegiate level (can be met by 3 years of one high school foreign language)
Western Illinois University	Not required	<u>Selected Majors</u> -- Bi-Cultural/Bi-Lingual Education, Foreign Language, and Biology (can be met by 3 years of high school foreign language)

COLLEGE COURSEWORK

Any student enrolled in grade 12 at Johnston City High School who is at least 16 years old and under the age of 21 as of September 1st of the school year in which the college course is taken and must fulfill and comply with the following requirements:

- Has attained a 3.5 grade point average (out of a 4.0) at Johnston City High School.
(includes transfer students)
- Has demonstrated good attendance.
- Has demonstrated good behavior.
- The class must fit in with the student's schedule.
- Must provide evidence of enrollment in class.
- Only **One** class will be allowed per semester.
- Student is responsible for tuition and fees.
- Final grade will not count towards JCHS GPA.
- Class will not appear on JCHS Transcript.
- Student must complete enrollment form and submit it to the guidance counselor.
- Must have pre-approval by the Guidance Counselor and Principal.
- Completes a 500-word essay describing professional and intellectual aspirations and prior personal experiences, passions, and special interests.

REQUIRED AND ELECTIVE COURSES

LANGUAGE ARTS

105 – English I

.5 Credit per semester

9

Prerequisite: None

English I is a full year course which includes beginning composition and introduces students to the study of literature. Beginning composition concentrates on English grammar and usage, including mechanics and spelling. The study of literature includes genre, theme, vocabulary, and many literary elements. Successful completion of English I satisfies one of the two year intensive writing requirements for high school graduation. *State Course Number 01001A000*

106 – Honors English I

.5 Credit per semester

9

Prerequisite: Completed and Approved Application and Consent of Instructor

Honors English I is a full year course which includes the same content as English I, but will review and evaluate content in a more in-depth manner. Students must complete a summer reading selection and assignment. Successful completion of Honors English I satisfies one of the two year intensive writing requirements for high school graduation.

State Course Number 01001A000

115 – English II

.5 Credit per semester

10

Prerequisite: English I

English II is a full year intensive writing course which includes the study of composition, sentence structure, paragraph structure, grammar, spelling, punctuation, and writing to communicate for a variety of purposes. It also includes the study of drama, fiction and poetry by the great writers of the world, with a special emphasis on short fiction. Oral communication skills will also be addressed. Successful completion of English II satisfies the second year of the two year intensive writing requirements for high school graduation.

State Course Number 01002A000

116 – Honors English II

.5 Credit per semester

10

Prerequisite: English I or Honors English I and, Completed and Approved Application, and Consent of Instructor

Honors English II is a full year intensive writing course which includes the study of composition, sentence structure, paragraph structure, grammar, spelling, punctuation, and writing to communicate for a variety of purposes. It also includes the study of drama, fiction and poetry by the great writers of the world, with a special emphasis on short fiction. Oral communication skills will also be addressed. Students must complete a summer reading selection and assignment. Successful completion of Honors English II satisfies the second year of the two year intensive writing requirements for high school graduation.

State Course Number 01002A000

125 – English III

.5 Credit per semester

11

Prerequisite: English II or Honors English II

English III is a full year course which includes the study of advanced composition and American literature. Advanced composition includes the intensive study of the structure of the English language and of writing to communicate for a variety of purposes. American literature is a survey of the prose and poetry of America from the period of colonization to the present. *State Course Number 01003A000*

- 126 – Honors English III** .5 Credit per semester 11
Prerequisite: English II or Honors English II, Completed and Approved Application, and Consent of Instructor
 Honors English III is a full year course which includes the same content as English III, but will cover this content in a more in-depth manner. The course will also include some additional material not covered in English III. Students who sign up for Honors English III should be strong, motivated readers, as they will be expected to read more material at a faster pace than they would in English III. Students must complete a summer reading selection and assignment. English III or Honors English III is required for all juniors. *State Course Number 01003A000*
- 135 – English IV** .5 Credit per semester 12
Prerequisite: English III or Honors English III
 English IV is a full year course which includes the continued study of advanced composition and English literature. In this course, students will be required to complete longer writing assignments, such as the research paper. English literature is a survey of the prose and poetry of English from the Anglo-Saxon period to the present. *State Course Number 01004A000*
- 136 – Honors English IV** .5 Credit per semester 12
Prerequisite: English III or Honors English III and meet the reading and writing placement scores for ENG 101 set by JALC. Student must earn a “C” or better and have teacher recommendation to advance from the first to the second semester of Honors English IV
 The primary objective of Honors English IV is to write effective expository prose. The first semester emphasizes the use of Standard English and appropriate sentence structures in unified, developed, and coherent paragraphs and essays. Writing assignments require various rhetorical modes as students learn the process of writing. This semester also includes an introduction to research skills and research writing. In the second semester, students further develop skills in writing expository prose. Second semester is a research writing course. Assignments include documented, multi-source writing in one or two papers for a combined total of at least 2,500 words in the final, graded version(s). (**John A. Logan College Dual Credit Course: ENG 101 (first semester) and ENG 102 (second semester)**) *State Course Number 01004A000*
- 140 – Creative Writing** .5 Credit 9-12
Prerequisite: None
 In this one semester course, students will be introduced to writing in the following literary genres: poetry (including various poetic conventions and types), short stories, drama, song lyrics and personal essays. They will also study and analyze the creative works of accomplished writers in order to learn effective ways to use poetic devices, figurative language, and other writer’s tools in their own writing. Students will create a collection of their literary accomplishments during the semester, and act as editors to select the best of each type of creative writing produced by class members for publication in a class literary journal. *State Course Number 01104A000*
- 145 – Literature in Cinema** .5 Credit 9-12
Prerequisite: None
 This one-semester class explores the contributions of classic to modern literature into the realm of cinema. The course examines literary elements in films based on plays, short stories, fiction, and non-fiction. Students will view films and then often compare and contrast them to the written counterpart. Students will utilize writing skills in a variety of ways, including film guides, responses, and critiques. *State Course Number 01061A000*

<u>157 – Novels</u>	.5 Credit	9-12
Prerequisite: None		
This one-semester course will cover a wide variety of novels from different eras, authors, ethnic backgrounds, and nationalities. Students will gain an appreciation of various writing styles and techniques. Students will also be encouraged to read, review, and share their own novel selections with their classmates. <i>State Course Number 01053A000</i>		
<u>165 – Journalism I</u>	.5 Credit per semester	10-12
Prerequisite: None		
This course will cover several forms of print media including literary journals, books, magazines, newspapers, and periodical journals. Members of this class will be, in part, responsible for publishing the <i>JCHS Times</i> . In addition, students will explore various other industry-related jobs, including sales, marketing, public relations, and business concepts. <i>State Course Number 11101A000</i>		
<u>167 – Journalism II</u>	.5 Credit per semester	11-12
Prerequisite: Journalism I		
This course will continue from and compliment Journalism I. Students will receive advanced instruction in news writing, interviewing, feature writing, and other journalism-related material. Members of this class will be, in part, responsible for publishing the <i>JCHS Times</i> . <i>State Course Number 11101A000</i>		
<u>168 – Journalism III</u>	.5 Credit per semester	12
Prerequisite: Journalism II		
This course will continue from and compliment Journalism II. Students will receive advanced instruction in news writing, interviewing, feature writing, and other journalism-related material. Members of this class will be, in part, responsible for publishing the <i>JCHS Times</i> . <i>State Course Number 11101A000</i>		
<u>185 – Drama</u>	.5 Credit	9-12
Prerequisite: None		
In this one-semester course, students will read and learn to interpret dramatic literature written by a variety of modern playwrights. As they study this literature, they will also learn and practice techniques for performing dramatic literature. As a final project for the course, students will select, read, interpret, and perform a one-act play to be presented to a live audience. <i>State Course Number 05053A000</i>		

MATHEMATICS

The sequence of math courses a student takes in high school depends on the level of math a student begins with his/her freshman year. A beginning math course recommendation will be given to each freshman student entering from Washington Middle School. This recommendation is based on past classroom performance, test scores, effort level and ability. The following is the recommended course sequences for each level of math:

<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>
• Algebra IA	Algebra IB	Geometry	Algebra II
• Algebra IA	Algebra IB	Geometry	Transitional Math/Math Analysis
• Algebra I	Geometry	Algebra II	Transitional Math/Math Analysis
• Algebra I	Geometry	Algebra II	Trigonometry/Analytic Geometry
• Geometry	Algebra II	Math Analysis	Trigonometry/Analytic Geometry
• Geometry	Algebra II	Trig/Analytic Geom	AP Calculus AB
• Advanced Algebra	Adv Geometry	Math Analysis	Trigonometry/Analytic Geometry
• Advanced Algebra	Adv Geometry	Trig/Analytic Geom	AP Calculus AB

205 – Algebra IA (Year 1 of 2 Year Course).5 Credit per semester 9-12

Prerequisite: None

A two-year course, which covers all concepts, covered in Algebra I. The course is broken into two years to accommodate students who do not have the skills to succeed in Algebra I yet. This course will prepare students for future courses in geometry or Algebra II. The students must take both years consecutively.

State Course Number 02053A000

206 – Algebra IB (Year 2 of 2 Year Course).5 Credit per semester 9-12

Prerequisite: Algebra IA

Second year of a two-year Algebra I course. The course is broken into two years to accommodate students who do not have the skills to succeed in Algebra I yet. This course will prepare students for future courses in geometry or Algebra II. The students must take both years consecutively. **State Course Number**

02054A000

210 – Algebra I .5 Credit per semester 9-12

Prerequisite: None

Algebra I is a one-year course in elementary Algebra. It is a more extensive study of the real number system generalizing the use of variables in algebraic expressions, polynomials, relations, and functions. Also included is a study of linear and quadratic equations. **State Course Number 02052A000**

211 – Algebra II .5 Credit per semester 9-12

Prerequisite: Algebra I or Consent of Instructor

Algebra II is a one-year course in Intermediate Algebra, which is a more in depth study of real numbers and functions. Linear, parabolic, hyperbolic, other quadratic and cubic functions are covered. Some trigonometry is covered. **State Course Number 02056A000**

<u>212 – Geometry</u>	.5 Credit per semester	9-12
Prerequisite: Algebra I		
Geometry is a one-year course in elementary Geometry that includes the study of various definitions, axioms, postulates, and theorems necessary to prove congruencies and similarities. Trigonometric concepts are also studied. <i>State Course Number 02072A000</i>		
<u>216 – Transitional Math</u>	.5 Credit per semester	12
Prerequisite: Algebra II or instructor consent		
Math course framework designed to prepare and transition students directly into college and career pathways requiring general education college level math competencies in quantitative literacy and statistics. The competencies within each domain should include, but are not limited to: numeracy (operation sense, estimation, measurement, quantitative reasoning, basic statistics, and mathematical summaries), application based algebraic topics, and functions and modeling. Upon completion students should be able to: demonstrate proficiency and understanding in basic numeracy competencies in whole numbers, integers, fractions, and decimals, use estimation and explain/justify estimates, apply quantitative reasoning to solve problems involving quantities or rates, use mathematical summaries of data such as mean, median, and mode, use and apply algebraic reasoning as one of multiple problem-solving tools, and use functions and modeling processes. Course to be delivered through authentic application, problem based instruction designed to build mathematical conceptual understanding and critical thinking skills. <i>State Course Number 02201A001</i>		
<u>220 – Advanced Algebra</u>	.5 Credit per semester	9-12
Prerequisite: Instructor’s Consent		
This course includes probability, combinatorics, linear programming, statistics, logarithms, and triangle trigonometry. <i>State Course Number 02069A000</i>		
<u>230 – Advanced Geometry/Analysis</u>	.5 Credit per semester	10-12
Prerequisite: Advanced Algebra or AC Algebra III/Trigonometry and Instructor’s Consent		
This course includes probability, combinatorics, linear programming, statistics, logarithms, and triangle trigonometry. <i>State Course Number 02057A000</i>		
<u>255–Trigonometry & Analytic Geometry</u>	.5 Credit per semester	11-12
Prerequisite: Geometry or AC Algebra III/Trigonometry		
Trigonometry & Analytic Geometry is a one-year course in Trigonometry and Analytical Geometry. Math team members should be enrolled their sophomore year. <i>State Course Number 02107A000</i>		
<u>274 – Math Analysis</u>	.5 Credit per semester	11-12
Prerequisite: Algebra II or Trigonometry/Analytic Geometry		
Math Analysis courses include the study of polynomial, logarithmic, exponential, and rational functions and their graphs; vectors; set theory; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity. They may also include some study of trigonometry and /or pre-calculus topics. This class will review all topics in previous classes and extend various topics. The majority of new topics will be college level material taken from number theory and abstract algebra. <i>State Course Number 02104A000</i>		

275 – AP Calculus AB

.5 Credit per semester

12

Prerequisite: Trigonometry & Analytic Geometry

Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. These courses introduce calculus and include the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including antiderivatives and the definite integral). *State Course Number 02124A000*

SCIENCE

The sequence of science courses a student takes in high school depends on the level of science a student begins with his/her freshman year. A beginning science course recommendation will be given to each freshman student entering from Washington Middle School. This recommendation is based on past classroom performance, test scores, effort level and ability. The following is the recommended course sequences for science:

- | <u>Year 1</u> | <u>Year 2</u> |
|--------------------|---|
| • Physical Science | Biology I |
| • Biology I | Anatomy & Physiology, Chemistry I or Physical Science |

304 – Earth and Space Science .5 Credit per semester 9-12

Prerequisite: None

The first semester of this course will focus on processes that build up the Earth (earthquakes, volcanoes, plate tectonics, mountain building), processes that break down the Earth (erosion and weathering), rocks and minerals, geologic history and topographic maps. Special emphasis will be placed on laboratory investigations.

The second semester of this course will focus on the atmosphere, our solar system, beyond our solar system, astronomy, meteorology and oceanography. Special emphasis will be placed on laboratory investigations.

State Course Number 03008A000

308 – Physical Science .5 Credit per semester 9-12

Prerequisite: None

This is a course which is lab-oriented and the curriculum focus will be on chemistry and Earth science, physics, and space science. The chemistry emphasis will be on the periodic table, states of matter, properties of matter, chemical reactions, and chemical bonding. The Earth science emphasis will be on Earth's surface and structure, rocks, plate tectonics, weather and climate. The physics emphasis will be on forces, motion, energy, thermal energy, waves, magnetism and sound. The space science emphasis will be on the solar system, the Earth and moon system, stars and the sun. **State Course Number 03001A000**

310 – Biology I .5 Credit per semester 9-12

Prerequisite: Physical Science or Consent of Instructor

This is a study of the science of life. In this course the student will become acquainted with the diversity of living things through the five-kingdom system, animals, plants, fungi, protists, and bacteria. **State Course Number 03051A000**

311 – Anatomy and Physiology .5 Credit per semester 10-12

Prerequisite: Biology I with a "C" or better or Consent of Instructor

This course emphasizes nomenclature and location of human body structures, and the physiological functions of body parts. Students will discover why human beings have different body statures, structures, skin pigmentation, and other variations. The nervous, endocrine, reproductive, and immune systems will be addressed. Dissection of the fetal pig will be used for comparative human anatomy and physiology along with various other lab activities. **State Course Number 03053A000**

- 312 – Biology II** .5 Credit per semester 11-12
Prerequisite: Biology I and JALC college entrance test scores on file in the guidance office.
 This course is designed for science majors. It is a lecture-lab course which includes the following: an introduction to biochemistry, molecular genetics, cell structure, function, and processes. The scientific method is presented in lab. (John A. Logan College Dual Credit Course: BIO 101) *State Course Number 03052A000*
- 315 – Chemistry I** .5 Credit per semester 10-12
Prerequisite: Algebra I and Biology I
 Chemistry I is the study of material things which make up the universe. Students taking chemistry need a background in mathematics. Group I and II qualitative unknowns as well as quantitative titrations are done in class. *State Course Number 03101A000*
- 316 – Chemistry II** .5 Credit per semester 11-12
Prerequisite: Chemistry I
 Beginning with acids and bases, Chemistry II covers organic chemistry and quantitative unknowns as well. There is emphasis on laboratory skills. *State Course Number 03102A000*
- 320 – Physics** .5 Credit per semester 11-12
Prerequisite: Geometry or Consent of Instructor
 Physics is known as an exact science, which has mathematics as its foundation. Students realize that this covers the fields of mechanics, sound, light, heat, magnetism and electricity. *State Course Number 03151A000*
- 456 – Basic Agricultural Science** .5 Credit per semester 9-12
Prerequisite: None
 This orientation course builds on basic skills and knowledge gained in the introduction to the Agricultural Industry course. Major units of instruction include agricultural research, soil science, advanced plant science, biotechnology, advanced animal science, and applied science. Math skills and concepts will be stressed throughout the course as they relate to each area. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. *State Course Number 18003A001*

HEALTH/PHYSICAL EDUCATION & TRAINING/DRIVER'S EDUCATION

330 – Health I

.5 Credit

10

Prerequisite: None

Health I is a one-semester course teaching the fundamentals of good health. Required for sophomores. ***State Course Number 08051A000***

350 – Physical Education

.5 Credit per semester

9-12

Prerequisite: None

This course will foster growth and development in the four learning domains of physical education: health related physical fitness, psychomotor, cognitive, and affective. Students will accomplish this through participation in various team and individual activities. Rules, terminology, and strategy will also be covered. Emphasis will be placed on active participation and general fitness. ***State Course Number 08001A000***

352 – Aerobic Class

.5 Credit per semester

9-12

Prerequisite: None

Aerobics is a fitness class designed to enhance the four components of fitness, which are cardio-respiratory conditioning, muscle strength and endurance and flexibility. There are many types of activities, which are considered aerobic. In this class, step bench and floor (dance) aerobics will be taught. The class is structured where bench or floor work is done three days per week and muscle condition/training will be two days per week. This class is an alternative to the regular physical education class. ***State Course Number 08005A000***

354 – Fitness and Weight Training (Co-Ed).5 Credit per semester

9-12

Prerequisite: None

Course will emphasize the following health related physical fitness components: muscular strength and endurance, cardio-respiratory fitness, flexibility, and body composition. Students will learn strength training principles and monitoring exercise exertion to promote general life-long fitness and disease prevention. The weekly calendar for the year will be four days of weight training (M, T, TH, and F) and one day of plyometric/aerobic training (W). ***State Course Number 08009A000***

380 – Driver's Education

.5 Credit

9-12

Driver's Education is the study of the techniques of safe driving with "behind the wheel" experience. Driver's education students will be processed by birthdates. Driver's education course work and the practical portion ("behind the wheel") will be combined with physical education courses to facilitate scheduling. Approximately 40 students can be scheduled each semester to take driver's education. This will allow time for the required classroom and driving hours per state law. Therefore, we will not know exactly what the cutoff date by birthdate will be until all students have registered for classes. Students will be prioritized by birthdates, with the oldest students scheduled for the fall semester.

Proficiency exams for the practice driving part of driver education course are permitted at the discretion of the instructor at any time after completion of three hours of practice driving under direct individual instruction by the driver education instructor.

Public and private students who desire to take the driver's education course must receive a passing grade in at least eight courses during the previous two semesters prior to taking driver's education. ***A student may miss no more than 4 class periods or they will be removed from the course.*** This includes excused absences. ***State Course Number 08152A000***

VOCATIONAL COURSES-Agriculture

450 – Introduction to Agricultural Industry .5 Credit per semester 9-12

Prerequisite: None

This orientation course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, agricultural mechanics, agricultural biotechnology, food science technology, environmental science and aquacultural science and technology 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. *State Course Number 18001A001*

454 – Basic Agricultural Mechanics .5 Credit per semester 10-12

Prerequisite: Introduction to Agriculture

In this course, theory and hands-on experiences 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. Improving workplace and computer 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. Basic Agricultural Science counts as a science credit for students who have already completed one year of physical science or biology or an equivalent science course. *State Course Number 18401A001*

456 – Basic Agricultural Science .5 Credit per semester 9-12

Prerequisite: None

This orientation course builds on basic skills and knowledge gained in the introduction to the Agricultural Industry course. Major units of instruction include agricultural research, soil science, advanced plant science, biotechnology, advanced animal science, and applied science. Math skills and concepts will be stressed throughout the course as they relate to each area. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. *State Course Number 18003A001*

461 – Agricultural Construction and Technology .5 Credit per semester 11-12

Prerequisite: Basic Agricultural Mechanics

This advanced course focuses on the knowledge, hands-on skills, and work place skills applicable to construction in the agricultural industry. Major units of instruction include: personal safety, hand tools, power tools, blue print reading, surveying, construction skills in carpentry, plumbing, electricity, concrete, block laying, drywall and painting. Careers such as agricultural engineers, carpenter, plumber, electrician, concrete and block layers, finishers, safety specialists, and other related occupations will be examined. Improving workplace and computer 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. *State Course Number 18403A001*

466 – Agricultural Mechanics and Technology 5 Credit per semester 11-12

Prerequisite: Introduction to Agricultural Industry and Basic Agricultural Mechanics

This course will concentrate on expanding student's knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are: design, construction, fabrication, maintenance, welding, electricity/electronics, internal combustion engines, hydraulics, and employability skills. Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector, welder, and other related occupations will be examined. Improving workplace and computer 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. *State Course Number 18402A001*

467 – Veterinary Technology (Offered in 2021-2022) .5 Credit 10-12

Prerequisite: Introduction to Agricultural Industry or Basic Agricultural Science

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. *State Course Number 18105A001*

468 – Animal Science (Offered in 2021-2022) .5 Credit 10-12

Prerequisite: Introduction to Agricultural Industry or Basic Agricultural Science

This course will develop students' understanding of the livestock (beef, dairy, sheep, goats, and swine), poultry, and large (equine) animal industry. Topics of instruction include scientific investigations, genetics, animal anatomy and physiology, animal nutrition, animal reproduction, animal health, and meat science. 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. *State Course Number 18101A002*

469 – Natural Resources Management and Conservation. 5 Credit per semester 10-12

Prerequisite: Introduction to Agricultural Industry

This course develops management and conservation skills in understanding the connection between agriculture and natural resources. Student knowledge and skills are developed in: understanding natural resources and its importance; fish, wildlife, and forestry management and conservation; and exploring outdoor recreational enterprises. Hunting and fishing as a sport, growing and managing tree forests, and outdoor safety education will be featured. Career exploration will be discussed including: park ranger, game warden, campground manager, forester, conservation officer, wildlife manager, and related occupations. 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. *State Course Number 18504A002*

470 – Supervised Agricultural Experience .25 Credit per semester 10-12

Prerequisite: Completion of Application and Instructor Consent Only

This supervised experience 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 are 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 full-time employment, scholarships, and awards through the FFA. *State Course Number 18998A002*

VOCATIONAL COURSES-Business

605 – Business Concepts .5 Credit per semester 9-10

Prerequisite: None

This course serves as an orientation to all business programs. Basic economics, marketing, and management principles are introduced. Students demonstrate an understanding of banking administration through successful completion of a simulation. Business communications and computations are integrated throughout the course. Employability skills and abilities are developed. *State Course Number 12001A001*

610 – Accounting I .5 Credit per semester 10-12

Prerequisite: None

Accounting I is a course designed for study in accounting theory which will be useful to all students who plan to pursue a career in business, marketing, management production, or entrepreneurship. Instruction will include information on keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision-making. By the use of business simulations, the student actually has an opportunity to have hands-on experience. *State Course Number 12104A001*

611 – Accounting II .5 Credit per semester 11-12

Prerequisite: B average in Accounting and Consent of Instructor

This advanced, skill-level course builds upon the foundation which is established in Accounting I. This course focuses on business-record analysis to enable students to develop more knowledge of the principles of accounting for decision making. Greater emphasis is placed on financial statements and accounting records. It is an expanded study of accounting principles as they apply to more complicated types of business organizations: partnerships, corporations, etc. Some specialized accounting computer applications are made available. Simulated business conditions may be provided through the use of practice sets. This course provides a technical background for college-bound students who plan a business curriculum, as well as those who plan vocational preparation. *State Course Number 12104A002*

615 – Medical Terminology .5 Credit per semester 10-12

Prerequisite: None

This course is an introduction to the correct spelling, pronunciation, and meaning of roots, prefixes, and suffixes of common medical terms that relate to body systems and pathological conditions. Students will also learn terminology for medical records, managed care, and the different health care settings. In addition, students will study abbreviations that relate to laboratory values, clinical procedures, and medical documents. **(Dual Credit w/JALC BUS 215)** *State Course Number 12002A001*

618 – Consumer Education

.5 Credit

12

Prerequisite: None

This course will focus on the basic concepts of financial literacy, including installment purchasing (including credit scoring, managing credit debt, and completing a loan application), budgeting, savings and investing, banking (including balancing a checkbook, opening a deposit account, and the use of interest rates) Understanding simple contracts, State and federal income taxes, personal insurance policies, the comparison of prices, and homeownership (including the basic process of obtaining a mortgage and the concepts of fixed and adjustable rate mortgages, subprime loans, and predatory lending), and understanding the roles of consumers interacting with agriculture, business, labor unions and government in formulating and achieving the goals of the mixed free enterprise system. *State Course Number 22210A000*

620 – Keyboarding IA

.5 Credit

9-12

Prerequisite: None

This is a (first semester of a year-long course which includes Keyboarding IB) orientation-level course designed to develop basic skills and keyboarding techniques taught on computers. Emphasis is placed on keyboarding technique, proofreading, correcting errors, formatting and processing letters, memos, reports with reference and title pages, outlines and tables. Students who complete this course will have a strong knowledge of computers as well as good keyboarding skills which are not only necessary in college but also in today's business world. *State Course Number 12005A001*

621 – Keyboarding IB

.5 Credit

9-12

Prerequisite: Keyboarding IA

This is the second semester of a year-long course which includes Keyboarding IA orientation-level course. It is designed for students to acquire beginning keyboarding skills using a computer. Instruction will include keyboarding techniques, proofreading and correcting errors. Along with the basic fundamentals of keyboarding techniques, emphasis is placed on formatting and processing letters, reports, and other documents. **(Dual Credit w/JALC BUS 116)** *State Course Number 10005A001*

630 – Computer Concepts I

.5 Credit

9-12

Prerequisite: None

Computer Concepts is an orientation-level computer literacy course, which provides a general background in the use of computers and data processing. Area of content includes the development of computers, data entry, and computer-related careers. Instruction in this course focuses specifically on the introduction of the use of software packages including word processing, database, spreadsheets and graphics. *State Course Number 10004A001*

632 –Computer Concepts II

.5 Credit

9-12

Prerequisite: Computer Concepts I

Advanced Computer Concepts builds on the beginning skill developed in 630 (Computer Concepts). In depth work is done with word processing, database, spreadsheets and graphics through the use of software packages such as Microsoft Office. Students build skills that would make themselves marketable in an entry-level job. **(Dual Credit w/JALC CIS 101)** *State Course Number 10005A001*

<u>634 – Information Processing A</u> (Desktop Publishing) Prerequisite: None	.5 Credit	9-12
This semester course will focus on creative uses of the computer. Microsoft Publisher, word processing, graphics programs, and layout design will be used for the publishing of newsletters, bulletins, business cards, promotional materials, brochures, booklets, and other business related publications. <i>State Course Number 10005A001</i>		
<u>635 – Information Processing B</u> (Desktop Publishing-Photography & Production Tools) Prerequisite: None	.5 Credit	9-12
This Semester course will focus on creative uses of the computer using Adobe Photoshop Elements and Microsoft Office. Students will use a digital camera and photo editing software to complete projects. This course is designed to build strong visual and media literacy for life-long use and awareness of career/higher education choices in the multimedia field. Students will learn the skills needed to create and alter digital photographs. Students will also learn multimedia production techniques by utilizing video and sound editing software, digital cameras, and camcorders. Students will learn how to gain exposure through the use of the Internet. Students will learn how to create academic and entertaining presentations including movies, animations, music logos and text. <i>State Course Number 10005A002</i>		
<u>636 – Web Page Design I</u> Prerequisite: None	.5 Credit	9-12
Students will learn web searching skills and the basics of web page design: planning and organizing content, applying design principles, creating web pages, and creating/editing graphics. Students will have several web site projects to complete. Students will also use a scanner and digital camera. <i>State Course Number 10201A001</i>		
<u>637 – Web Page Design II</u> Prerequisite: Web Page Design I	.5 Credit	9-12
This second course in Web Page Design will continue to develop the skills to develop and design quality web sites. <i>State Course Number 10201A002</i>		
<u>652 – Computer Repair & Maintenance</u> Prerequisite: None	.5 Credit	9-12
This course provides an overview of the computing industry including PC installation, maintenance, troubleshooting and repair. This course also provides students an opportunity to learn valuable skills through on-the-job training situations. Guest speakers and field trips to area businesses will complement the classroom instruction and provide valuable insight to the IT field. After completing this course, students should have the tools that they will need to earn their CompTIA A+ Certification. This is the industry standard for computer support technicians. <i>State Course Number 10252A0001</i>		
<u>654 – Network Essentials</u> Prerequisite: Computer Repair & Maintenance	.5 Credit	9-12
This course will provide the student with a general background in networking concepts, procedures and skills necessary in a computer network environment. This course is designed to familiarize the student with an overview of network topologies, physical network architecture, wireless connectivity, various networking operating systems and a brief introduction into Microsoft Active Directory. This class will also provide the student with necessary skills in troubleshooting and help desk topics necessary for the network's technician and software specialist. <i>State Course Number 10102A001</i>		

655 – Robotics

.5 Credit

9-12

Prerequisite: Computer Repair & Maintenance

Robotics courses 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. *State Course Number 21009A000*

645 – Service Class

.5 Credit per semester

10-12

Prerequisite: Student must have 3.0 GPA or better or Consent of Instructor.

For students who wish to work during the day for a teacher or in one of the school offices. Service will be given during all six periods of the school day. Grades and credit will be issued by the Business Department based on evaluations completed by the "employers" - the people the students work for. This course can be repeated with a maximum of two credits. *State Course Number 12002A001*

180 – Yearbook

.5 Credit per semester

10-12

Prerequisite: 3.0 GPA, Information Processing I and II or Consent of Instructor

Students in this course will sell ads, take photos during school and in the evening at school events/sports, and plan, prepare and produce the school yearbook independently and simultaneously with information processing, and web page design. The course requires computer work and may require extra time before and after school to meet deadlines. *State Course Number 10005A001*

650 – Cooperative Vocational Education (CVE)**Prerequisite: Student must be a senior, Consent of Instructor** 1.5 Credits per semester 12

Cooperative Vocational Education (CVE) is a capstone course designed to assist students in the development of effective employable skills and attitudes through practical, advanced instruction in school and on the job. Approximately half of the school day is spent in the classroom and the other half is on-the-job training supervised by the designated training sponsor and coordinated by the teacher-coordinator. A training plan that identifies training to be provided is developed by the teacher-coordinator with the assistance of the training sponsor and the student-trainee. Related instruction includes the following broad areas of emphasis: further career educational opportunities, planning for the future, job-seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. *State Course Number 22153A001*

VOCATIONAL COURSES-Healthcare**740 – Nursing Assistant I**

1.5 Credit per semester

12

Prerequisite: (1) Consent of Instructor and Approved Application and (2) History of Good Attendance and Behavior, (3) Placement scores in reading; Accuplacer Next-Gen-233 or better or SAT-480 or better

This class is designed for seniors who wish to prepare for a career in nursing or related health services. During the first nine weeks terminology, anatomy, physiology and pathophysiology techniques of patient care are stressed. It offers a sequence of planned educational classroom, laboratory, and clinical experiences to prepare a person to perform tasks involved in the personal care of individuals receiving health care. These tasks are performed under the supervision of a licensed practical nurse, registered nurse or physician and continues with anatomy, physiology and pathophysiology. Students will be trained in Pharmacy Tech and Phlebotomy, which when successfully completed results in certification in Phlebotomy and job placement or pursue DSP certification to work with individuals with disabilities. The remainder of the school year, students have options to receive further on the job training at various health care facilities, employment

through various health care facilities in a work/study agreement, (Students may have other opportunities as they arise.)

In order to participate in clinical observation activities, students are required to pass coursework and/or laboratory simulation in specified areas including confidentiality, infection control, CPR and safety. Upon successful completion of the course, the student will be a Certified Nurse Assistant approved by the Illinois Department of Public Health. (John A Logan College Dual Credit Course: NAD 101) ***State Course Number 14051A001***

750 – Medical Lab Tech I (Medical Careers I) 1 Credit per semester

11-12

Prerequisite: (1) Consent of Instructor and Approved Application and (2) History of Good Attendance and Behavior

This course offers planned educational classroom, laboratory, and clinical experiences to prepare persons to work under the supervision of medical technologists, clinical pathologists, or physicians to perform routine clinical laboratory procedures in hospitals, clinics, doctors' offices, and other clinical laboratory facilities. In order to participate in clinical observation activities, students are required to pass coursework and/or laboratory simulation in specified areas including confidentiality, infection control, CPR and safety. Emphasis will be placed on developing competencies in the many employment roles in all allied health care settings. Students will be prepared to enter articulated associate degree programs at community colleges or universities and/or post-high school employment placements. Successful completion of the American Heart Association CPR Health Care Provider course will result in advanced certification. ***State Course Number 14102A001***

755 – Medical Lab Tech II

.5 Credit per semester

11-12

Prerequisite: (1) Consent of Instructor and Approved Application and (2) History of Good Attendance and Behavior

Students in this class learn how to function as a member of a healthcare team. By planning, implementing and evaluating three Red Cross blood drives held at JCHS, students will experience working on a committee and marketing a project. (Successful completion of these activities fulfills the necessary requirements for Red Cross red cord for graduation and scholarship consideration for seniors). The Health Science portion of the class consists of studying the circulatory system, blood components and blood bank/transfusion procedures. Students in this class also are responsible for planning, implementing and evaluating the Illinois Heart Rescue Grant initiative which provides hands-on CPR training to the JCHS student body. Students in this class, after being trained in CPR themselves, develop and train "peer teachers" then work in groups to offer training to all JCHS students. ***State Course Number 14002A002***

760 – Orientation to Health Careers

.5 Credit per semester

10-12

Prerequisite: None

Students will be introduced to all medical careers to determine future interest. They will explore many of the technical skills needed by medical employees through numerous guest speakers, presentations, discussions and hands-on activities. Students will study the role of government in health care agencies as well as levels of management. They will be guided to understand communications in the medical field. In addition, students will receive American Heart Association Heartsaver CPR/First Aid certification.

State Course Number 14001A001

WILLIAMSON COUNTY

704 – Introduction to Laborer’s Apprenticeship I 1 Credit per semester 11

Prerequisite: None

The Construction Craft Preparation Program will provide educational activities both within the classroom and within an actual supervised work setting, allowing the students to become more knowledgeable and competent in the skills of a Construction Craft Laborer. Planned learning experiences will allow the students to gain knowledge of the basic fundamental principles of a Construction Craft Laborer and allow them to develop basic technical skills in many different areas. These areas include: concrete, construction math, mason tending, landscaping, asphalt technology, general construction, blueprint reading, grade checking, asbestos awareness, and pipe laying. Most learning experiences will be gained through classroom discussion and some, limited and supervised, hands on training. ***State Course Number 17002A001***

705 – Introduction to Laborer’s Apprenticeship II 1 Credit per semester 12

Prerequisite: Apprenticeship I

The Construction Craft Preparation Program will provide educational activities both within the classroom and within an actual supervised work setting, allowing the students to become more knowledgeable and competent in the skills of a Construction Craft Laborer. Planned learning experiences will allow the students to gain knowledge of the basic fundamental principles of a Construction Craft Laborer and allow them to develop basic technical skills in many different areas. These areas include: concrete, construction math, mason tending, landscaping, asphalt technology, general construction, blueprint reading, grade checking, asbestos awareness, and pipe laying. Most learning experiences will be gained through classroom discussion and some, limited and supervised, hands on training. ***State Course Number 17002A002***

WILLIAMSON COUNTY REGIONAL VOCATIONAL DELIVERY SYSTEM

Johnston City, Carterville, Crab Orchard, Marion and Herrin High Schools offer credit for system courses. Enrollment is limited to ten students, primarily seniors and possibly juniors. Students with more than 10 absences during the first semester of any system course will be dropped for second semester. Students interested in the System Program should contact the High School Guidance Office.

SYSTEM COURSES:

720 – Child and Day Care Services Occupations IA 1 Credit per semester 12

Prerequisite: Child Development, Parenting and Approved Application

This two-hour course is designed to provide students interested in elementary education or child and day care occupations with information and practical experiences needed for the development of job related competencies. Students will be provided laboratory experiences with children in a school based and extended campus facility such as community experiences at Day Care Centers and Colleges. Classroom study includes care center regulations, and special needs children. ***(Herrin High School) State Course Number 19054A001***

721 – ProStart /Food Service I 1 Credit per semester 12

Prerequisite: Food & Nutrition, Consent of Instructor and Approved Application

This is a two-hour class designed to prepare students for employment in the food service industry. The class is designed for juniors and seniors who want to explore professional cooking. The class will cover topics such as customer relations, cost control, menu planning, marketing, management skills and communication. There will also be numerous food preparation labs, cake decorating, catering entrepreneurship, food safety

and sanitation. Work experiences are provided off-campus to help students learn on-the-job entry level skills. *(Marion High School) State Course Number 16052A001*

730 –Automotive Tech IA 1 Credit per semester 12

Prerequisite: Consent of Instructor and Approved Application

This course is the first of a two-course sequence offering in Automotive Technology. The course provides experiences related to safety, industrial math, fasteners, types of engines, automotive electrical units, engine tune-up, troubleshooting, power trains, brakes and suspensions, heating and air-conditioning, and emission control systems. Instruction is accomplished by classroom and laboratory learning experiences. Job shadowing experiences at various businesses in the surrounding areas are scheduled in this course. Senior students will be encouraged to prepare and participate in the Ford AAA Student Skills Contest. *(Marion High School) State Course Number 20104A001*

731 – Manufacturing Technology IA 1 Credit per semester 12

Prerequisite: Machine Technology I or Consent of Instructor and Approved Application

This course offers a sequence of learning experiences which provide students with opportunities to develop skills needed for employment in the manufacturing industry fields. Course content includes such skills as safety practices and personal safety, precision measurement, layout procedures, bench operations, hand tools, sheet metal, basic foundry and basic power tools as needed in manufacturing careers. The second semester of Manufacturing Technology I provides projects allowing students to continue to build manufacturing skills. The projects will require that students observe basic machine safety and operations. As time permits, students will work with oxyacetylene welding and cutting, basic shielded metal arc welding, and basic metal inter-gas welding. Students will be introduced to programmable logic control and computer numerical control of machining equipment. *(Herrin High School) State Course Number 13203A005*

716 – Fire Science 1 Credit per semester 12

Prerequisite: Consent of Instructor and Approved Application

This course is designed to provide students with the skills needed to prevent and extinguish fires, maintain and repair fire service related equipment, provide basic emergency medical treatment, and prepare public service information concerning fires and hazardous materials. Instruction includes the physical characteristics of fire as well as general safety practices, basic fire behavior, and extinguishing principals. Students learn rescue and extrication procedures, types and use of ground ladders, proper ventilation techniques, appropriate use of various water systems, how to use ropes and tie knots, use of fire hoses, controlling property loss along with fire control techniques, detection systems, prevention practices and communication procedures. The course may also include procedures for operating emergency vehicles, maintaining fire-related equipment and vehicles in the field, and securing and protecting evidence. The topics of emergency medical techniques and practices which include medical legal considerations, terminology, airway management, procedures for treating poisoning and allergic reactions, environmental emergencies, how to treat soft tissue injuries, musculoskeletal, head and spine injuries, initial patient assessment, transportation, and emergency treatment will be discussed. *(Marion High School, Meets 1:42 – 3:15 p.m. daily) State Course Number 15152A001*

780 – Fashion Merchandising 1 Credit per semester 12

Prerequisite: Clothing I, Consent of Instructor and Approved Application

This course provides learning experiences for the student who is interested in fashion, clothing accessories, clothing construction, and work opportunities in the retail clothing field. Students will gain information about fashion, styles, clothing selection, textiles, and merchandising. They will have an opportunity to develop their sewing skills to advanced levels by constructing entrepreneurial projects throughout the year.

Entrepreneur units will teach students marketing, design, manufacturing, and communications skills that will be used in the retail clothing world of work. Student portfolios will be kept by each student for future employment. Work experience in local businesses and business partnership arrangements will acquaint students with various retail clothing careers. Technology-based learning will be an important part of this course. *(Marion High School) State Course Number 12153A001*

790 – Commercial Art I

1 Credit per semester

12

Prerequisite: Art II, Consent of Instructor and Approved Application

Commercial Art I is a vocational art class designed for those who plan on pursuing art as a career. Students will learn creative problem solving skills necessary to be successful in the commercial art field. Students will do basic layout and design work including an introduction to computer graphics, animation, and photography. Students will be introduced to the concepts of deadlines and professional work ethics. They will be exposed to skills used in advertising, video film production, illustration, as well as product and package designing. Emphasis will be the use of digital design and computer graphics. Commercial Art I students will prepare a portfolio. *(Marion High School) State Course Number 11155A001*

SOCIAL STUDIES

805 – Global Studies

.5 Credit

10

Prerequisite: None

This course provides a comprehensive survey of regional landforms, history, political growth, and economic, social, and cultural development for various regions of the world. It will help students improve their ability to interpret maps, graphs, charts, tables, and diagrams. *State Course Number 04001A000*

810 – World History I

.5 Credit

9-12

Prerequisite: None

A one-semester course that will emphasize the development and contributions of man from Prehistoric Cultures through the Renaissance. *State Course Number 04051A000*

811 – World History II

.5 Credit

9-12

Prerequisite: None

A one-semester course that concentrates on developments made from the Renaissance through the twentieth century. The class will focus on the contributions made during this time period and the effect the contributions would have on people worldwide. *State Course Number 04051A000*

815 – Current Events

.5 Credit

9-12

Prerequisite: None

This course is designed to help build reading comprehension, writing skills, and oral expression. The class promotes becoming informed citizens and readers of the news. The main sources of information for the class will be a variety of newspapers and magazines, both written and online. The newspapers and magazines discussed include local, national and world wide events. The students will learn to be news gatherers as well as interpreters of the news. *State Course Number 04064A000*

816 – Illinois History

.5 Credit

9-12

Prerequisite: None

This one semester course is designed to cover the history of our state. Topics covered during the semester include: Illinois before the Europeans; French and British Periods in Illinois; state geography, map skills, history of Williamson County and the development of Illinois as a state. *State Course Number 04105A000*

817 – Anthropology

.5 Credit

9-12

Prerequisite: None

Anthropology is a science of humankind. It focuses on human characteristics generated by humans themselves. This course includes the studies of all facets of society and culture. This includes tools, techniques, traditions, language, beliefs, kinships, values, social institutions, economic mechanisms, beauty and art, and struggles for prestige. It also includes the impact of humans on other humans. *State Course Number 04251A000*

818 – Sports History

.5 Credit

9-12

Prerequisite: None

This course will offer the creative and unique histories of many of the sports that we have come to love today. The course will take an inside look into sports such as: baseball, football, basketball, volleyball, Olympic Sports, and so much more. The class will be designed on a timeline of events dating back to some of the very first sports played in our most ancient history to the sports that we love to watch and participate

in today. As we explore these sports we will learn about the way they have shaped the culture of the civilizations that participated or may still participate in them today. *State Course Number 04109A000*

819 – Music’s Influence on Culture and Society .5 Credit 9-12

Prerequisite: None

Music has played a huge role in the many cultures of the world. In this class students will explore the lasting effects that music has had on the cultures that created it. We will learn about the origins of some of the first instruments as well as the instruments that we see regularly today. We will also explore the creation and history of the many different styles and genres of music that shape our culture today. This class will give students a diverse perspective of the music that surrounds them. Some of the music that will be studied includes: early percussive music from parts of Africa, Eastern Asian music, Gregorian chants, classical European (i.e. Bach, Beethoven, and Mozart), folk, country, gospel, rock and roll, R and B, blues, alternative, pop and hip hop/ rap. *State Course Number 04302A000*

830 – American History .5 Credit per semester 11

Prerequisite: None

The content in American History covers the time period from the discovery of America to the present in this full-year course. *State Course Number 04101A000*

832 - 20th Century American History .5 Credit per semester 9-12

Prerequisite: None

In this course students would explore the events that occurred in and included the United States, from 1900-99. From man’s first flight to the space race, from World War I to World War II, from the Cold War to the end of Communism, and from the creation of the personal computer to the world wide web, these are just a few of the topics awaiting to be explored in the 20th Century American History. This course will give students the opportunity to learn about the more recent events in American history that many classes cannot teach due to the time crunch of one year. *State Course Number 04103A000*

835 – U.S. Government and Civics .5 Credit 12

Prerequisite: None

This course is a one-semester course for seniors only. It is the study of the purpose and machinery of our government. It is important in that it teaches the student to become a better-informed citizen of this country. Civics course content shall focus on government institutions, the discussion of current and controversial issues, service learning, and simulations of the democratic process. *State Course Number 04151A000*

840 – Practical Law .5 Credit 11-12

Prerequisite: None

This one-semester course is an overview of the legal system in the United States with special emphasis on Illinois statutes and the structure of our state government. Areas of study include: introduction to criminal and civil systems, students’ rights and responsibilities, juvenile law, drug-related crimes, family law, and legal vocabulary. *State Course Number 04163A000*

870 – Psychology .5 Credit 11-12

Prerequisite: None

Psychology is the study of behavior. The topics covered in this will include: principles of learning, the nervous system, sensations and perceptions, psychological testing, mental health disorders, drug and alcohol abuse, attitudes and prejudice. Studying psychology should help students gain insight into behavior, and

learn practical information of how to deal with situations in everyday life. **(Dual Credit w/JALC PSY 132)**
State Course Number 04254A000

EDUCATION

880 – Introduction to Education .5 Credit per semester 11-12

Prerequisite:(1) Consent of Instructor and Approved Application and (2) History of Good Attendance and Behavior, (3) Placement scores on Accuplacer (4) Earning a “C” or higher in current English and Math classes

Course provides a comprehensive overview of American education and the teaching profession. The course is particularly pertinent to those considering entering the educational fields as professionals or paraprofessionals. Topics include the theoretical and philosophical basis of American education, the structure of schools including governance, curriculum and financing; legal, ethical and professional issues in education, and the changing role of schools and teachers. Employment outlook for educators will be evaluated. In addition, at least 25 hours of apprenticeship in an elementary or secondary classroom is required. **(Dual Credit w/JALC EDC 200) State Course Number 19151A000**

881 – Human Growth Development and Learning .5 Credit per semester 11-12

Prerequisite:(1) Consent of Instructor and Approved Application and (2) History of Good Attendance and Behavior, (3) Placement scores on Accuplacer (4) Earning a “C” or higher in current English and Math classes

This course is an overview of human growth, development and learning from conception through the adult lifespan. Major areas of human development, including physical, social, emotional, and cognitive, and the interaction among these areas, are considered. The course will examine theoretical and research-based understandings of principles of human development as well as dynamics of human behavior and social relations. Multicultural and pluralistic topics affecting development, including characteristics and concerns between and within diverse groups both nationally and internationally are explored. **(Dual Credit w/JALC EDC 202) State Course Number 04255A000**

882 – Schooling in a Diverse Society .5 Credit per semester 12

(Offered Beginning in 2021/2022 School Year)

Prerequisite:(1) Consent of Instructor and Approved Application and (2) History of Good Attendance and Behavior, (3) Placement scores on Accuplacer (4) Earning a “C” or higher in current English and Math classes

This course is an overview of American education as both a professional and a public enterprise. Social, historical, and philosophical foundations are considered to give perspective to current issues, policies, and trends in the field of education. The course will examine how schooling is shaped by the social contexts in which it occurs, particularly in multicultural and global contexts. **(Dual Credit w/JALC EDC 203) State Course Number 04259A000**

883 – Characteristics & Methods for Teaching Exceptional Children .5 Credit per semester 12

(Offered Beginning in 2021/2022 School Year)

Prerequisite:(1) Consent of Instructor and Approved Application and (2) History of Good Attendance and Behavior, (3) Placement scores on Accuplacer (4) Earning a “C” or higher in current English and Math classes (5) Completion of EDC 202 with a “C” or better

This course is designed for pre-service teachers who serve children and youth with disabilities in general education classrooms. The course focuses on essential disability characteristics; data-based decision-making; scientifically-based academic and behavioral interventions/strategies; differentiated instruction; accommodations; and forming and sustaining collaborative relationships. Each of these areas will be addressed by assigned readings, lecture, and other assignments and activities. **(Dual Credit w/JALC EDC 208) State Course Number 19154A000**

FOREIGN LANGUAGE

905 – Spanish I

.5 Credit per semester

9-12

Prerequisite: None

Students will build their Spanish language proficiency through interpersonal, interpretive and presentational communication. They will interact in spoken and written conversations, learn to interpret and analyse the language and present information in Spanish. These skills will be used for the purposes of socializing, providing information, and expressing personal feelings and opinions. Students will learn to feel comfortable expressing themselves in Spanish, whether it is their name, their age, the date, the weather or their feelings. Therefore, students will be able to comprehend language consisting of basic vocabulary in face-to-face conversation as well as initiate and engage in simple conversations. In addition to learning Spanish vocabulary and introductory grammar, students will also explore the culture of the Spanish-speaking community. This course is taught through Proximity Learning. Students receive Streamed live instruction by a qualified and state-certified teacher. *State Course Number 06101A000*

906 – Spanish II

.5 Credit per semester

10-12

Prerequisite: Spanish I

Students will continue their introduction to Spanish with fundamental building blocks in the three areas of communication. In order to engage the students in a true interest of the language, they will be exposed to the history and culture of Spanish-speaking countries. Therefore, the students will develop cross-cultural skills and understanding to allow a deeper understanding of the language. In addition to reviewing previously acquired concepts, as students go into the second level of Spanish, they will also be able to comprehend the main idea of more extended conversations with some unfamiliar vocabulary and structures as well as cognates of English words. They will learn how to use repetition, rephrasing, and nonverbal cues to derive or convey meaning in Spanish. They will also be able to initiate and engage in more complex conversations. This course is taught through Proximity Learning. Students receive Streamed live instruction by a qualified and state-certified teacher. *State Course Number 06102A000*

FINE ARTS

931 – Art I .5 Credit per semester 9-12

Prerequisite: None

This is an introductory course to the visual arts. This class is designed to help build students' skills in problem solving, and creative thinking, which will help students in all areas of life. In this class, students will get an introduction to the elements and principles of design while working with both 2D and 3D mediums. Students are required to provide some simple materials and pay \$10.00 per semester Art Activity Fee.

State Course Number 05154A000

932 – Art II .5 Credit per semester 10-12

Prerequisite: Art I

This course is designed to further develop the concepts and skills learned in art one. In this class, students will be working on more advanced projects in both 2D and 3D mediums. Students will need to continue to develop their problem solving, and creative thinking skills through experimentation and trial and error. Students are required to provide some simple materials and pay \$10.00 per semester Art Activity Fee. ***State Course Number 05165A000***

933 – Art III .5 Credit per semester 11-12

Prerequisite: Art II

This course is meant for third level advanced art students who have completed Art 1 and Art 2. Skills learned in Art 1 and Art 2 are incorporated and enhanced through this course. Each student will use their prior knowledge in the previous courses to investigate more thoroughly two-dimensional and three-dimensional projects. Students must show initiative and good work habits in addition to being interested in art. Students are required to provide some simple materials and pay \$10.00 per semester Art Activity Fee.

State Course Number 05155A000

944 – Ceramics I .5 Credit 10-12

Prerequisite: Art I

Students will learn the basic ceramics techniques of pinch, coil and slab hand building techniques, as well as wheel throwing. Students will be working with various finishing and glazing techniques as well, to create both functional and non-functional ceramic pieces. Students are required to provide some simple materials and pay \$10.00 Art Activity Fee. ***State Course Number 05159A000***

945 – Ceramics II .5 Credit 10-12

Prerequisite: Ceramics I

This class will continue the study of ceramics begun in Ceramics I. Students will be creating more complex clay projects both in form and function. More advanced finishing and glazing techniques will be taught in this class. Students are required to provide some simple materials and pay \$10.00 Art Activity Fee. ***State Course Number 05159A000***

955 – Advanced Art .5 Credit per semester 12

Prerequisite: Art III, good attendances, and consent of instructor

This class is designed for students gifted in art who are planning a career in the visual arts field. Working within a classroom situation, the student decides on his or her course of art pursuits whether it be fine arts, graphic arts, etc. Students must be self-disciplined in their use of time. Ideas for projects are homework; time in class must be used for art production. In addition to the actual artwork, students are required to do a

written critique and evaluation of each of their projects. Forms for acceptance into this class are available in the guidance office and **must be signed by the art instructor**. Specific materials may be required in addition to the \$10.00 art fee per semester. *State Course Number 05170A000*

956 – Photography I

.5 Credit

10-12

Prerequisite: Art I

In this class students would learn the basics of how to use a DSLR camera, and Adobe Photoshop editing software. Throughout this class projects will continue to build on various compositional techniques used by professional’s photographers. Students are required to provide some simple materials and pay \$10.00 Art Activity Fee. *State Course Number 05167A000*

957 – Photography II

.5 Credit

10-12

Prerequisite: Photography I

This is an advanced class that will continue to build on the skills learned in photography 1. In this class students will learn more about different types of lighting techniques, and portrait style photography. Students are required to provide some simple materials and pay \$10.00 Art Activity Fee. *State Course Number 05167A000*

970 – Marching Band

.5 Credit per semester

9-12

Prerequisite: Experience in previous band

The course is designed to challenge advanced musicians and to expose them to literature above the average musician’s ability. This organization performs several concerts during the school year, participates in the state contest, and performs for various community functions. The Johnston City High School Band program consists of Marching Band, Pep Band, and Concert Band. Attendance is required of all students at all scheduled performances. *State Course Number 05103A000*

990 – Community Service

One half credit toward high school graduation will be granted for successful completion of a community service program. Students fill out an application, which must be approved by the principal. The student will spend 75 clock hours with a community agency or the school district doing volunteer work. Applications may be obtained from the guidance counselor. *State Course Number 22104A000*

994-999 – Enrichment

9-12

Prerequisite: None

Enrichment prepares students for success in high school and/or for postsecondary education. Course topics may vary according to the students involved, but typically include reading and math improvement skills, such as scanning, note-taking, and outlining; library and research skills; listening and note-taking; vocabulary skills; and test-taking skills. The courses may also include exercises in silent reading and exercises designed to generate organized, logical thinking and writing. Students are also required to check their grades weekly during the Enrichment period. *State Course Number 22003A000*