

Jacksonville High School



Course Catalog 2019 – 2020

2019-2020
Jacksonville Independent School District
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Preface

The Jacksonville High School Course Catalog reflects the many changes in Texas Education. As a result, some of the information pertains to all JHS students, and some pertains only to certain classes. Please read the information in this catalog carefully, especially the sections which pertain to graduation requirements.

The courses listed in the JHS Course Catalog are those that are offered to students at the time of spring registration. The number of requests and availability of qualified teachers in specific courses determine whether or not a course will be taught in the following year.

Some decisions by the Texas Education Agency happen quickly or during the summer. Any changes which affect our students will be explained in writing to our parents through communication from the principal's or guidance counselors' offices.

Jacksonville schools do not discriminate on the basis of race, religion, color, national origin, sex, or disability in providing education or providing access to benefits of educational services, activities, and programs, including vocational programs, in accordance with Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Educational Amendments of 1972; Section 504 of the Rehabilitation Act of 1973, as amended; and Title II of the Americans with Disabilities Act of 1990.

COURSE CATALOG JACKSONVILLE HIGH SCHOOL

The purpose of this catalog is to provide both students and parents with a clear understanding of the educational opportunities available at Jacksonville High School. Hopefully, the course descriptions and information contained herein will enable students to make more informed decisions concerning their future educational plans. It is a further aim that parents will review the information contained in this catalog and become more involved in the important educational decisions to come. If there are questions or concerns that cannot be answered through the information given in this catalog, any of the JHS staff or JISD administration will be glad to be of assistance.

SCHEDULING PROCESS

During the school year, JHS counselors will meet with students to review their transcripts and update their individual graduation plans. In the spring of each year the counselors will meet with students to help them complete their course selection sheet and plan their schedule for the upcoming school year. The JHS course catalog may be viewed on the high school website. Student interests, satisfaction of state and local requirements, diagnostic information, and career plans will be considered in the process to design a schedule best suited to the needs of the individual student.

Parental input is essential in the scheduling process. Course selections will be sent home for parental approval. Parents are asked to look over the student's course selections and, if the parents disagree, arrange an appointment with the appropriate grade level counselor to re-evaluate the planning. JHS counselors may be contacted at 903-586-3661.

Students must select alternative classes in addition to the courses they would like to take. Scheduling is a complex process, and in some cases, it is physically impossible to arrange scheduling to accommodate every student's first choice. When this happens, alternate choices must be used. Please consider the possible alternative courses carefully.

DUAL ENROLLMENT/COLLEGE COURSE WORK

Dual enrollment allows a student to be awarded credit toward high school graduation for completing a college-level course. These courses may be taken at JHS or the college. The student must have written permission from the high school counselor before registering for a dual credit course. Dual English classes require a placement test.

1. The student must have a "B" average in high school courses and a satisfactory attendance record from previous years in high school.
2. The student must show proof of having been accepted by a junior or senior college of recognized standing. This program shall not be applicable for commercial, business, vocational, or technical schools.
3. The course(s) for which credit is awarded must provide advanced academic instruction beyond or in greater depth than the Texas Essential Knowledge and Skills (TEKS).
4. Students must obtain permission from their high school counselor to enroll in a dual credit course.
5. Students enrolling in Tyler Junior College and Jacksonville College must meet the college entrance requirements.

Currently, selected courses are approved for off campus dual enrollment at Jacksonville College and Tyler Junior College. Special permission must be obtained to enroll in any other college or university. Grades are assigned by the college instructor and are recorded on the high school Academic Achievement Record (transcript). Grades for approved courses will be counted in GPA calculation if they are taken on the high school campus. Seven extra points will be calculated into the student's overall GPA each semester for dual credit courses taken on the high school campus.

CONCURRENT ENROLLMENT

Concurrent enrollment occurs when students take college courses at institutions of higher education which are not needed for high school graduation and for which the student does not seek high school credit. This affords the student the opportunity to obtain college credit while enrolled in high school. (Same guidelines as dual credit apply.)

ADVANCED PLACEMENT COURSES

The Advanced Placement Program (AP) is a cooperative educational endeavor between secondary schools and colleges and universities. It gives high school students exposure to college-level material through involvement in an AP course, and then gives them an opportunity to demonstrate that knowledge by taking an AP Exam. A fee is charged for each examination and graded on a scale of 1 to 5. Colleges and universities are then able to grant credit, placement, or both to these students, depending on scores earned and college policy. Students need to check with their college choice for exact policy. Refer to the list of campus courses for current AP classes offered at JHS. Seven extra points will be calculated into the student's overall GPA each semester for AP courses.

PRE-AP COURSES

The Pre-Advanced Placement courses at Jacksonville High School are designed to prepare students for the challenges offered by the Advanced Placement Program. The Pre-AP level curriculum is vertically aligned to serve as the introduction and foundation for the AP curriculum. Five extra points will be calculated into the student's overall GPA each semester for Pre-AP courses.

Exiting Procedures for Pre-AP/AP Classes

Students may be exited from Pre-AP/AP courses when discontinuing the child's participation is in the best interest of the student.

Voluntary Exit

A student may choose to voluntarily exit a Pre-AP/AP course at the end of a grading term.

Involuntary Exit

There are several criteria which may cause removal from a Pre-AP/AP course.

CRITERIA 1: A student who fails two terms (not necessarily consecutive) may be removed from the Pre-AP/AP course in question.

CRITERIA 2: A student failing any Pre-AP/AP course in any grading term will be put on probation for a three-week time period. The student must be passing the class in question at the three-week progress report mark. If the student is still failing at the three-week progress report mark, he/she may be removed from the class in question.

HONOR SOCIETY

The National Honor Society ranks as one of the oldest and most prestigious national organizations for high school students. Chapters exist in three-fourths of the nation's high schools, and since 1921, millions of students have been selected for membership. Thousands of dollars in scholarships have been awarded to senior members since 1943 by the sponsoring organization, the National Association of Secondary School Principals.

Locally, the Osborn-Boles Chapter of the National Honor Society was originally organized in 1940. Membership in the chapter is based on scholarship, leadership, service and character. At JHS, the National Honor Society is open to juniors and seniors. Candidates eligible for membership must be enrolled at JHS one semester prior to their selection. However, National Honor Society students from other schools who transfer to JHS are accepted as full members. A cumulative GPA of 90 or higher in all course work is required of students in the Osborn-Boles Chapter of NHS.

The NHS Faculty Council will evaluate students who meet the academic requirements and wish to be considered for membership on their leadership, service, and character. Students who receive a favorable majority vote are then invited to join the local chapter. Once elected to NHS students must complete an independent service project each year in addition to the chapter service project.

NHS members will be subject to dismissal if they do not maintain the standards of scholarship, leadership, service and character that were used as the basis for their selection. This shall include but not be limited to the following:

failure to maintain required grade point average, failure to complete the annual ten hours of individual community service, absences from two NHS meetings, school disciplinary measures, or excessive absences or tardies.

CREDIT BY EXAM - EXAM FOR ACCELERATION /EXAM TO RESTORE CREDIT

Any student may receive credit in a course by demonstrating proficiency on an appropriate examination. Request for this examination should be made to the appropriate grade level counselor. Test dates are set by the Board of Trustees and offered four times per year. A grade of 80% or above is required for students who have had no prior instruction in the course (exam for acceleration). A grade of 70% or above is required for students who have had prior instruction in a course but have not received credit (exam to restore credit).

J.I.S.D PASSPORT PROGRAM

Passport is the J.I.S.D. gifted/talented program. Identified students are served through differentiated curriculum in Advanced Placement studies, independent study, dual/concurrent enrollment, academic competitions, and a variety of extracurricular activities. Students are nominated for the program during the spring semester. Standardized test scores, a portfolio review (sample of student work), a teacher checklist, a parent checklist, and a student interview are included in the identification process. Passport students must remain enrolled in at least one Pre-AP or AP class in the area of identification. Information about the gifted/talented program may be obtained from the district g/t coordinator.

VALEDICTORIAN/SALUTATORIAN POLICY

The valedictorian and salutarian shall be the eligible students with the highest and second highest ranking, respectively. To be eligible for such recognition, a student must:

1. Have completed the foundation program with the distinguished level of achievement;
2. Have completed his or her junior and senior years (last four semesters) at the District campus certifying graduation; and
3. Be graduating after exactly eight semesters of high school enrollment. An early graduate shall not be eligible for valedictorian or salutarian honors.

In case of a tie in weighted numerical grade averages after calculation to the thousandths place, the District shall recognize all students involved in the tie as sharing the honor and title:

1. In the event of a tie for valedictorian, co-valedictorians shall be recognized, and no salutarian shall be named.
2. In the event of a tie for salutarian, co-salutarions shall be recognized.

CLASS RANKING

1. Students who graduate under the foundation program with the distinguished level of achievement shall be ranked together in order of their weighted grade average.
2. The remaining graduates shall be ranked in order of their weighted grade average after students who graduate under the foundation program with the distinguished level of achievement.

All courses on the student's transcript shall be included in determining a student's GPA and class ranking except for credit by examination, correspondence courses, remediation courses, courses taken at the middle school, local credit courses, non-classroom credit recovery courses, off campus Dual credit courses, SUPERNet Virtual School and Texas Virtual School Network (TxVSN) internet courses.

EARLY GRADUATION

By the end of the first semester of the sophomore year, a student is encouraged to declare his or her intention to graduate early. In addition the student must file an early graduation plan with their grade level counselor and must have principal approval.

GRADING

The Jacksonville High School Grading System is as follows:

A = 90 - 100	C = 70 - 79
B = 80 - 89	F = Below 70

TRANSFER CREDITS

Students transferring into the District shall receive the numerical grade that was earned in courses at another school. Letter grades shall be recorded as follows: A= 95, B = 85, C =75, D = 70 and F = 60.

SCHEDULE CHANGES

All students enroll during the spring semester for the upcoming school year. This enrollment is a final choice and will be changed only for very unusual reasons such as courses accomplished during the summer or administrative reasons. Since the number of sections needed for each course will be determined from your choices, it is necessary to make all adjustments to your schedule prior to the starting of the school year.

ATTENDANCE

Local policy requires that students be in attendance 90% of the semester to receive credit for their class.

A student who attends fewer than 90% of the days the class is offered cannot receive credit for the class unless the attendance committee finds that the absences are the result of extenuating circumstances or the student attends make-up days to satisfy attendance requirements.

A student with an excessive number of absences will be notified that he/she does not have the required attendance to receive credit in the course(s). A notification will also be sent to the student's parent/guardian.

CLASSIFICATION OF STUDENTS

After the 9th grade, students are classified according to the number of credits earned toward graduation.

Freshman	0.0 – 5.5 Credits
Sophomore	6.0 – 11.5 Credits
Junior	12. – 17.5 Credits
Senior	18. + Credits

AWARDING OF CREDIT

In subjects which are one-semester courses only, one-half credit shall be awarded if a student earns a grade of 70 or above. In subjects which are full-year courses, one credit shall be awarded at the end of the school year if one of the following occurs: A student passes both semesters or a student attains a cumulative average of at least 70 over both semesters. If a student passes only one semester and attains a cumulative grade average of less than 70, one-half credit shall be awarded for the passing semester period. Credit shall be awarded for the failed semester when it is repeated and a grade of 70 is earned or a cumulative average of at least 70 over both semesters.

USING GUIDANCE SERVICES

The guidance department is an integral part of the overall school program. Counselors are available on school days and at various times during the summer to assist you in your needs in the following areas:

1. To identify strengths and weaknesses as they relate to your choice of courses or potential employment and training stations after completion of high school. Counselors help administer diagnostic tests in achievement, intelligence, interests and personality. They can assist you in determining choices of course subjects based on the results of these tests. They will also help you plan for the world of work or college.
2. To offer counseling in personal problem areas. Counselors can help you focus on self-development and on acquiring decision-making abilities; because academic growth and success are directly related to the mental health of each individual, counseling services meet a fundamental need. Whether the problems are here at school, with your friends, or if the problem is at home, the counselors are available to listen and help you work out your concerns.
3. To provide you with information regarding your placement in classes or programs. The counselors have many materials at their disposal to help you make the best choices of courses and programs within the school. Counselors can tailor programs to your needs now and in the future, whether it is occupationally or educationally.

CORRESPONDENCE COURSES

Credit toward state graduation requirements may be granted for correspondence courses only under the following conditions:

1. The institution offering the course is the University of Texas at Austin, Texas Tech University, or other public institution of higher education approved by the commissioner of education.
2. The correspondence course includes the state-required TEKS for such a course.
3. Students may earn a maximum of two state required credits through correspondence courses and may be enrolled in only one correspondence course at a time unless special permission is granted by the principal.
 - Grades earned for taking correspondence courses shall not be computed for determining class rank.
 - Seniors enrolled in a correspondence course must complete the course and submit the grade at least 30 days prior to the date of graduation.
 - The Superintendent or designee may exercise discretion in waiving limitations on an individual basis.

DISTANT LEARNING (ONLINE) COURSES

Credit toward state graduation requirements may be granted for internet courses only under the following conditions:

1. SUPERNet (internet courses) are offered through Texas Virtual School Network (TxVSN). All courses are approved through the Texas Education agency. The web site for SUPERNet is <http://vhs.sprnet.org>. For complete course information and to register for online courses, the student must contact his/her grade level counselor.
2. The internet course includes the state-required TEKS for such a course.
3. Students may earn a maximum of four state required credits through internet courses and may be enrolled in only one internet course at a time unless special permission is granted by the principal.
 - Grades earned for taking internet courses shall not be computed for determining class rank.
 - Seniors enrolled in an internet course must complete the course and submit the grade at least 30 days prior to the date of graduation.
 - The Superintendent or designee may exercise discretion in waiving limitations on an individual basis.
 - Beginning with the Freshman Class of 2016-2017 grades earned for taking internet courses shall be computed for determining class rank.

CREDIT RECOVERY

Edmentum PLATO is an online teacher directed computer program that is available to Jacksonville High School students for credit recovery of the core academic courses required for graduation. This is a district approved program that is based on Texas State standards and course curriculum. A certified teacher is in charge of the PLATO program. PLATO classes are scheduled each period during the school day. Also, PLATO classes are scheduled after school and during the summer. Grade level counselors are responsible for scheduling the students in the classes. The teacher/instructor interacts with the individual students during each period tutoring them, monitoring their progress, making sure they are completing their assignments, assessments and reviewing their grades. The time line of each course is based on the school's term grading periods. Course completion grades are posted and kept on file by the PLATO teacher/instructor. Grade sheets are given to the counselor in order for the grade to be entered on the student's transcript. PLATO courses may be used for original credit with principal and counselor approval.

HOME SCHOOL OR UNACCREDITED PRIVATE SCHOOL

A student entering high school with credits from home school or an unaccredited private school will be assessed by available instruments to determine awarding of credit for individual courses. Available instruments include but are not limited to: end-of-course exams, previously released EOC exams, and/or achievement tests. Assessment should be completed as soon as possible to ensure proper placement. Students will be given adequate time to prepare for testing.

FOUNDATION WITH ENDORSEMENT GRADUATION REQUIREMENTS

ACADEMIC CORE COMPONENTS*	CREDIT
English	4.0
<ul style="list-style-type: none"> • English I, English II, English III, An advanced English course 	
Mathematics **	4.0
<ul style="list-style-type: none"> • Algebra I, Geometry, Two additional advanced math courses 	
Science	4.0
<ul style="list-style-type: none"> • Biology, Integrated Physics & Chemistry or an advanced science course, Two additional advanced science courses 	
Social Studies	3.0 – 4.0
<ul style="list-style-type: none"> • World Geography and/or World History, U.S. History, U.S. Government (0.5 credit), Economics (0.5 credit) 	
Language Other Than English	2.0
<ul style="list-style-type: none"> • Two credits in the same language 	
Fine Arts	1.0
<ul style="list-style-type: none"> • One credit in fine arts (see fine arts descriptions) 	
Physical Education	1.0
<ul style="list-style-type: none"> • One credit in physical education or an equivalent substitute 	
Elective Courses	6.0 – 7.0
<ul style="list-style-type: none"> • The courses may be selected from the list of courses approved by the SBOE for Grades 9-12 	
TOTAL CREDITS WITH ENDORSEMENT REQUIRED	26.0

*College Board Advanced Placement courses may be substituted for requirements in appropriate subject areas.

**A student may earn a distinguished level of achievement by successfully completing the curriculum requirements for the Foundation High School Program and the curriculum requirements for at least one endorsement required by the Texas Education Code (TEC), §28.025(b-15), including four credits in science and four credits in mathematics to include Algebra II.

A student entering 9th grade beginning in 2014 must indicate an endorsement he or she plans to follow

ENGLISH COURSE DESCRIPTIONS

ENGLISH I-IV

The English sequence is intended for all students. Instruction should occur within the context of speaking, listening, writing, and reading and includes development in the skills delineated in the essential elements (TEKS).

Course: English I

Credit: 1.0 credit

Grade Placement: 9th

Course Description: emphasizes three parts: literature, grammar, and composition. Reading and interpretation of the literature selections are frequently used as topics for composition. Students are required to apply their knowledge of basic rules of grammar and usage in the compositions.

Course: Pre AP English I

Credit: 1.0 credit

Grade Placement: 9th

Course Description: goes beyond the English I course in both content and scope. This is done through a study of a variety of genres by authors from all regions. Students are to achieve a high degree of competency in the basic skills of reading, writing, listening, and speaking. Students will review language study, composition, and literary skills, building upon past language study and analyzing new literary selections. *Five extra points will be calculated into the student's overall GPA each semester for this class.*

Course: English II

Credit: 1.0 credit

Grade Placement: 10th

Course Description: emphasizes three parts: reading, writing and grammar. Literature and composition assignments are selected for the needs and interests of students. Students are required to apply their knowledge of basic rules of grammar and usage in the compositions.

Course: Pre AP English II

Credit: 1.0 credit

Grade Placement: 10th

Course Description: goes beyond the English II course in both content and scope. Extensive practice, especially in the area of writing, will aid in the development of skills and techniques. *Five extra points will be calculated into the student's overall GPA each semester for this class.*

Course: English III

Credit: 1.0 credit

Grade Placement: 11th

Course Description: emphasizes three parts: American literature, grammar, and composition, focusing on a background in American literature. Knowledge of American literature parallels our American historical growth. Students are required to apply their knowledge of grammar and usage in compositions dealing with literature selections and a research paper.

Course: English IV

Credit: 1.0 credit

Grade Placement: 12th

Course Description: is designed to present a sequential and fused program in reading, writing, speaking, listening and reasoning. A variety of traditional English literature is surveyed. Instruction concerning the development and completion of a research paper is of particular value to senior students.

Course: English III or IV Dual Credit Composition

Credit: 1.0 Credit

Grade Placement: 11th - 12th

Course Description: This class is offered on the high school campus as dual credit with Jacksonville College for courses ENGL 1301 and ENGL 1302. *Seven extra points will be calculated into the student's overall GPA each semester for this class.*

English 1301 includes the development of skills and competencies in the course subject matter in reading, writing, speaking, and critical thinking. Course activity is mainly nonfiction reading and an extensive work in the processes of composition. **Prerequisite:** Placement scores as set by Jacksonville College.

English 1302 includes further training in composition and critical thinking combined with the study of drama, poetry, and short stories for analysis of thematic approach style. **Prerequisite:** A grade of 70 or higher in English 1301.

Course: English for Speakers of Other Languages I-II

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: is designed for the student of limited English proficiency (LEP), that is, a student whose primary language is not English and/or who comes from a home where the primary language is other than English. ESOL I and ESOL II may be substituted for English I and II for students with limited English proficiency.

ENGLISH ELECTIVES

Course: Journalism

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: is a beginning course designed for students interested in scholastic journalism and journalistic writing. After reviewing the significant historical events of American print journalism, students examine all aspects of a publication's production, from fact-gathering to graphics design. This course helps students to recognize and use journalistic style in the writing of news, features, and editorials; they also practice techniques of copy editing, proofreading, and headline writing. Publication's design advertising, and editorial policies are also treated in this course. *This course is recommended as a prerequisite for one or both of the advanced journalism courses.*

Course: Advanced Journalism (I - III) (Yearbook)

Credit: 1.0 credit

Grade Placement: 10th - 12th

Prerequisite: Journalism I

Course Description: Journalistic writing, editing, and graphic skills necessary to produce a high school yearbook will be taught along with organizational skills. Must have been in either Journalism I or Photojournalism to be in the class.

Course: Advanced Journalism (I - III) (Newspaper)

Credit: 1.0 credit

Grade Placement: 10th - 12th

Prerequisite: Journalism I (may be waived by instructor)

Course Description: Journalistic writing, editing, and graphic skills necessary to produce "The Drumbeat," the high school newspaper, will be taught. Recommendation of English teachers is also advised.

Course: Photojournalism

Credit: 1.0 credit

Grade Placement: 10th - 12th

Course Description: is a course designed for students interested in the journalistic aspect of photography. The course of study includes the development and uses of photographic skills for news and publication purposes. It develops competency in taking, developing, and printing new photographs for use in school publications. It also deals with the elements of photo composition, the selection, cropping, and scaling of new photos; and elements of

design and layout involving photographs. Students will be required to take an assigned number of pictures during each six weeks and meet deadlines in order to pass the class. Taking pictures outside of class is mandatory. Some expenses must be met by students. Projects and deadlines are mandatory.

Course: READ 180

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: This course emphasizes the improvement of reading development through reinforcement and extension of reading skills.

Course: Independent Study Speech I, II and III

Credit: 1.0 credit

Grade Placement: 9th -12th

Course Description: This is a one-year course that allows interested students to practice and develop skills necessary to compete in UIL events. This includes mathematics, calculator, science, current events, spelling, social studies, computer, accounting and others. The emphasis of the class is preparing to speak in front of a group. Students are asked to do prose and poetry readings, as well as to inform and persuade the audience toward their opinions. Expectations of the class include representing JHS at academic competitions on Saturdays and at the District level. Competition may extend to Regional and State level.

Course: Independent Study Speech-Research

Credit: 1.0

Grade Placement: 11th

Course Description: This is class that provides advanced academic students an opportunity to achieve both academic and personal excellence through comprehensive, innovative and creative learning environments. The program will build collaborative partnerships between education and the business community to better prepare students for college and future careers.

MATHEMATICS COURSE DESCRIPTIONS

Course: Algebra I

Credit: 1.0 credit

Grade Placement: 9th

Course Description: is a one-year course designed to enhance the ability to think and analyze solutions to problems as opposed to simply memorizing. Algebra I is an important foundation for students who plan to study more advanced math courses. **Not open to students who completed Algebra I in 8th grade.**

Course: Geometry

Credit: 1.0 credit

Grade Placement: 9th - 10th

Prerequisite: Algebra I.

Course Description: is a one-year course designed to teach students to think logically. Students will learn to analyze, organize, and apply facts concerning figures composed of points, lines, and surfaces or combinations of these. The facts learned in geometry are very important since they play a prominent part in industry, mechanics, physical sciences and advanced mathematics.

Course: Geometry Pre AP

Credit: 1.0 credit

Grade Placement: 9th - 10th

Prerequisite: Algebra I.

Course Description: is a one-year course designed for students showing advanced aptitude toward mathematics and the ability to reason logically. This course includes the same topics as geometry, but in greater depth and scope. Greater emphasis will be placed on topics such as coordinate proofs, transformations, and principles of logic. Required research and projects will be included. *Five extra points will be calculated into the student's overall GPA each semester for this class.*

Course: Mathematical Models with Applications

Credit: 1.0 credit

Grade Placement: 10th - 11th

Prerequisite: Algebra I

Course Description: is a mathematics course that will extend the concepts covered in Algebra I to include such topics as using multiple representations, technology, applications and modeling, and numerical fluency in problem-solving contexts. The student will be required to use a graphing calculator. This course must be taken prior to Algebra II.

Course: Algebra II

Credit: 1.0 credit

Grade Placement: 10th - 12th

Prerequisite: Algebra I and Geometry (or concurrently enrolled in Geometry) [Recommended that students purchase a TI83+ or higher calculator.]

Course Description: is a one-year mathematics course that will extend the concepts covered in Algebra I to include such topics as functions, complex numbers, quadratic equations, and matrices and determinants. The student will be required to use a graphing calculator.

Course: Algebra II Pre AP

Credit: 1.0 credit

Grade Placement: 10th - 12th

Prerequisite: Algebra I and Geometry (or concurrently enrolled in Geometry) [Recommended that students purchase a TI83+ or higher calculator.]

Course Description: is a one-year course designed for students showing advanced aptitude toward mathematics. The course covers the same topics as Algebra II, but in greater depth and scope. Additional topics that are beneficial to college-bound students considering math and science careers are included. *Five extra points will be calculated into the student's overall GPA each semester for this class.*

Course: Algebraic Reasoning

Credit: 1.0 credit

Grade Placement: 11th - 12th

Prerequisite: Algebra I

Course Description: Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets.

Course: Precalculus

Credit: 1.0 credit

Grade Placement: 11th - 12th

Prerequisite: Algebra II (Recommended that students purchase a TI-83 or higher calculator.)

Course Description: is a one year course designed to follow Algebra II. Precalculus is a preparatory class for Calculus, and it covers the essential elements of trigonometry, analytical geometry, as well as real numbers and coordinates; functions and their graphs; polynomial and rational functions; exponential and logarithmic functions; circular functions and their properties; trigonometric functions, their properties, identities, and applications; vectors; complex numbers; polar coordinates and their graphs; sequences and series; curves in a plane, conics and transformations; second degree relations; matrices and determinants; the binomial theorem; and limits. Students planning to take Calculus should take this course. It is recommended that students earn average or above average grades in Geometry and Algebra II.

Course: Precalculus Pre AP

Credit: 1.0 credit

Grade Placement: 11th - 12th

Prerequisite: Algebra II (Recommended that students purchase a TI-83 or higher calculator.)

Course Description: is a one-year course designed to follow Algebra II. Precalculus Pre AP is a preparatory class for Calculus and it covers the essential elements of trigonometry, analytical geometry, as well as real numbers and coordinates; functions and their graphs; polynomial and rational functions; exponential and logarithmic functions; circular functions and their properties; trigonometric functions, their properties, identities, and applications; vectors; complex numbers; polar coordinates and their graphs; sequences and series; curves and transformations; second degree relations; matrices and determinants; the binomial theorem; and limits, but in greater depth and scope than Precalculus. Students planning to take Calculus should take this course. It is recommended that students earn average or above average grades in Geometry and Algebra II. *Five extra points will be calculated into the student's overall GPA each semester for this class.*

Course: AP Calculus AB

Credit: 1.0 credit

Grade Placement: 12th

Prerequisite: Precalculus (Recommended that students purchase a TI-83 or higher calculator.)

Course Description: is recommended for the advanced mathematics student who desires to pursue a career in Engineering, Physics, Mathematics or other science-related fields. It includes concepts and skills associated with the limit of function; the derivative and application of derivatives; integration and techniques of integration; along with application of integrals. AP Calculus is designed to prepare a motivated student to take the Advanced Placement Calculus Examination as offered by the College Board. Students who receive a three to five on the examination may receive college credit in this area. The textbook used will be a college textbook and work will be equivalent to that performed by college students. Acceptance in this class does not mandate that you participate in the Advanced Placement Examination; however, you will be encouraged to study more and attempt the examination. *Seven extra points will be calculated into the student's overall GPA each semester for this class.*

SCIENCE COURSE DESCRIPTIONS

Course: Integrated Physics and Chemistry

Credit: 1.0 credit

Grade Placement: 9th - 10th

Course Description: course is an introductory course for Grades 9 and 10 designed to show the relationship between chemistry and physics in the following topics: motion, waves, energy transformations, properties and changes in matter, critical thinking, and the safe manipulation of laboratory apparatus and materials. **Students who have completed Chemistry may not take Integrated Physics and Chemistry.**

Course: Biology

Credit: 1.0 credit

Grade Placement: 9th - 10th

Course Description: is the study of the structure, growth and function of the life systems of selected organisms. The study will encompass historical contributions to biological concepts; energy production, transfer, and use in living systems; and the inter-relatedness of organisms with each other and their environments. Students acquire data using their senses and instrumentation. Observations are made of living organisms in the environment, prepared specimens, various ecosystems, and inherited traits. Student investigations emphasize accurate observations, collection of data, data analysis, and safe manipulation of laboratory apparatus and materials in the laboratory.

Course: Pre AP Biology

Credit: 1.0 credit

Grade Placement: 9th - 10th

Course Description: goes beyond the content and scope of Biology. The main difference in the courses is in the level of instruction, pace and testing policies. Students are encouraged to develop thinking skills and study habits that will benefit them in college courses. The information presented is patterned after college Botany and Zoology classes to insure success at the college level. *Five extra points will be calculated into the student's overall GPA each semester for this class.*

Course: AP Biology

Credit: 1.0 credit

Grade Placement: 10th - 12th

Prerequisite: Biology (Pre AP Biology is recommended.)

Course Description: is designed for the students who have an interest in more in-depth study of concepts of biology. The course is recommended for anyone considering a field in the biological sciences, serious UIL science competitors, or will take botany and zoology their freshman year of college. Major topics included are evolution, animal behavior, cellular respiration, heredity, biochemistry, the cell and its processes, tissues and other related topics. The students participate in leading discussions, presenting class materials and completion of 12 laboratory activities suggested by the College Board. The students will be eligible to take the Advanced Placement Examination as offered by the College Board. (While not required it is encouraged.) Those receiving from a three to five on the examination can apply for college credit in this area. Topics cover a college biology course for majors in biology; a college textbook is required with the laboratory more complex and equivalent to that performed by college students. *Seven extra points will be calculated into the student's overall GPA each semester for this class.*

Course: Chemistry

Credit: 1.0 credit

Prerequisite: one unit of high school science and Algebra I

Grade Placement: 10th - 12th

Course Description: is the study of the structure, composition, and behavior of matter and emphasizes the investigation of matter, its interactions, and the factors affecting the interactions. A laboratory oriented course that stresses the observation of matter and its behavior, classification of matter, communication of data, measurement of chemical quantities, predictions of chemical phenomena, and manipulation of chemical investigations. Students acquire data by using their senses and instrumentation. The investigations emphasize accurate observations, collection of data, data analysis, and safe manipulation of laboratory materials.

Course: Pre AP Chemistry

Credit: 1.0 credit

Grade Placement: 10th - 12th

Course Description: goes beyond the content and scope of Chemistry as described above. *Five extra points will be calculated into the student's overall GPA each semester for this class.*

Course: Physics

Credit: 1.0 credit

Grade Placement: 11th - 12th

Prerequisites: Algebra I and Algebra II or Geometry.

Course Description: is designed to study matter and energy and their interactions. Fundamental concepts in the areas of mechanics, light, sound, heat, electricity, magnetism and nuclear phenomena are introduced. Students acquire information using the senses and instrumentation. Observations of laws of force and motion, the nature of light, wave phenomena, and properties of electricity and magnetism are integral components of the course. Student investigations emphasize accurate observations, collection of data, data analysis, and the safe use of laboratory equipment.

Course: Pre AP Physics

Credit: 1.0 credit

Grade Placement: 11th - 12th

Course Description: goes beyond the content and scope of Physics as described above. *Five extra points will be calculated into the student's overall GPA each semester for this class.*

Course: Anatomy & Physiology of Human Systems

Credit: 1.0 credit

Grade Placement: 11th or 12th grade

Prerequisite: Biology, Chemistry

Course Description: This course is designed for students who desire an understanding of the structure and function of the human body systems. Recommended for students who are interested in health related careers.

Course: Dual Anatomy and Physiology of Human Systems

Credit: 1.0 credit

Grade Placement: 12th

Prerequisite: Pre AP Biology and Chemistry are recommended as prerequisites.

Course Description: is a course for those students who desire an understanding of the structure and function of the human body systems. Cat dissection is included for muscle and circulatory studies (necessary course for Kinesiology majors, PE and coaching emphasis, biology majors and health oriented majors.) Dual enrollment at Lon Morris College or Jacksonville College is required for students. Class is held on the High School Campus. *Seven extra points will be calculated into the student's overall GPA each semester for this class.*

Course: Environmental Systems

Credit: 1.0 credit

Grade Placement: 11th - 12th

Prerequisite: one unit of life science and one unit of physical science

Course Description: Environmental Science is a laboratory course that explores the interactions between living things and their environments. The course involves the study of natural resources and pollution and examines world issues related to ecology.

SOCIAL STUDIES COURSE DESCRIPTIONS

Course: United States History

Credit: 1.0 credit

Grade Placement: 11th - 12th

Course Description: is a one-year course (the second year of study of U.S. History). It continues the focus from the eighth grade on the history, geography, and political and economic growth of the nation; the theme of culture as a characteristic of American society, past and present including significant individuals, issues and events after the period of Reconstruction to the present. The study of U.S. geography, in regard to location and shape, is integrated into the course.

Course: Dual United States History

Credit: 1.0 credit

Grade placement: 11th - 12th

Course Description: is an intense study of the political, military, diplomatic, social, and cultural history of the United States from the period of discovery and exploration to the present. Lectures, discussions, examinations of different points of view, and readings will dominate the course. Students will gain invaluable practice in deeper comprehension in reading, taking objective exams, answering the document-based questions, and developing an organized and readable essay. *Seven extra points will be calculated into the student's overall GPA each semester for this class.*

Course: World History

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: includes further study of the history and development of world cultures encountered in the earlier secondary social studies courses. Content includes the development of early civilization, western civilization

and other world regions from their early days to present. Students should be better able to understand world events that may arise in the present and in the future. An attempt is made to show the interrelationships in the world with stress on the way one period on history may influence a succeeding period.

Course: Pre AP World History

Credit: 1.0 credit

Grade Placement: 9th – 12th

Course Description: the purpose of this course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. Focused primarily on the past thousand years of the global experience, the course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage prior to AD 1000. Periodization, explicitly discussed, forms the organizing principle for dealing with change and continuity from that point to the present. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study. This course should also be viewed as a gateway to more advanced work in social studies. *Five extra points will be calculated into the student's overall GPA each semester for this class.*

Course: World Geography

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: is a one-year course that provides the opportunity to study the interaction of people and their physical environments in the major areas of the world. Students acquire an understanding of the physical setting of the earth, locate and study different land forms and regions of the world, learn how people and geography impact each other and urbanism. Content offers students the opportunity to put into practice the geographical concepts and skills accumulated through earlier social studies programs.

Course: Pre AP World Geography

Credit: 1.0 credit

Grade Placement: 9th – 12th

Course Description: a course that goes beyond the standard World Geography course in both content and scope. The course provides an opportunity to study, in depth, cultural, social, political and economic geography in a physical geographical framework throughout the world's regions. Content offers students the opportunity to put in practice the geographical concepts and skills accumulated through earlier social studies programs. Successful completion of this class will also afford the student the skills to assist them in other advanced social studies classes such as AP World History, AP US History, and AP Government and Economics. This course will also fulfill the required World Geography credit towards graduation under the Recommended High School Program. *Five extra points will be calculated into the student's overall GPA each semester for this class.*

Course: United States Government

Credit: 0.5 credit

Grade Placement: 12th

Course Description: is a one-semester course that provides an opportunity to study, in depth, the foundation of the U.S. political system; to analyze the political institutions, process and values of the system; to trace the development of the U.S. governmental system; and to analyze the structure and functions of government on local, state and federal levels.

Course: U S Government Dual

Credit: 0.5 credit

Grade Placement: 12th

Course Description: This is an intensive college level course offered concurrently through Jacksonville College. The student must meet all requirements for admission to be enrolled in college to take this course (see counselor for details). The college tuition and fees are the responsibility of the student. The course is a survey for the United States political landscape including theoretical principals of government, political systems, parties, the structure and function of federal, state and local governments, and United States political policies. Successful completion of this course will count for Government 2305 in college. *Seven extra points will be calculated into the student's overall GPA for this class.*

Course: Economics

Credit: 0.5 credit

Grade Placement: 12th

Course Description: is a one-semester course that provides opportunity to study basic principals concerning production, consumption, and distribution of goods and services. Content builds an understanding of the components of the free enterprise system. Students study concepts such as supply and demand, the banking system, comparative economic systems, and the national economy.

FINE ARTS COURSE DESCRIPTIONS

Course: Art I

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: Beginning Art: This class fulfills the fine art requirement for graduation. Art I students learn basic design through use of the Elements and Principals of Art. Focus is on basic design, drawing, painting, printmaking and sculpture. Students explore perception, creative expression, historical and cultural heritage and critical evaluation.

Course: Art II

Credit: 1.0 credit

Grade Placement: 10th - 12th

Course Description: Intermediate Art: Prerequisite – Successful completion of Art 1.

Art II: This course provides further exploration of creative expression. Basic design is demonstrated through thoughtful use of Elements and Principals of Art. Students explore perception, creative expression, historical and cultural heritage and critical evaluation. Students receive more in-depth instruction in drawing, painting, printmaking and sculpture techniques.

Course: Art III

Credit: 1.0 credit

Grade Placement: 11th - 12th

Course Description: Advanced Art: Prerequisite – Successful completion of Art 1 and Art II.

Students explore perception, creative expression, historical and cultural heritage and critical evaluation. Students at the Art III level should demonstrate command of the elements and principals of art and be comfortable speaking about their artwork. Students will be expected to investigate their personal artistic expression through drawing, painting, printmaking and sculpture.

Course: Art IV

Credit: 1.0 credit

Grade Placement: 12th

Course Description: Prerequisite – Successful completion of Art 1, Art II and Art III.

This class is recommended for students wishing to pursue Art at the college level. Focus will be on creating a well rounded art portfolio showing a concentration in either medium or subject matter. Students will be expected to work independently. The class will have regular portfolio evaluations and critiques. By the second semester, students will be expected to write an artist statement and be researching and applying for college entry and scholarship

opportunities. As a final exam, students will be expected to edit and present their portfolio and speak about their area of concentration using precise vocabulary of Art.

Course: AP Studio Art 2-D Design

Credit: 1.0 credit

Grade Placement: 11th - 12th

Course Description: is not based on a written examination; instead, students submit portfolios for evaluation at the end of the school year. There are two distinct portfolios: the General Portfolio and the Drawing Portfolio. Since no standards, universally, valid studio art course can or should exist, the AP Studio Art Development Committee suggests guidelines for the submission of an AP portfolio rather than delineating a specific course. The portfolios are designed to allow freedom in structuring AP Studio Art courses while keeping in mind that the quality and breadth of the work should reflect first-year college-level standards. Therefore, the major responsibility for creating an AP course in art and preparing work to submit for evaluation belongs to the participating teachers and students. *Seven extra points will be calculated into the student's overall GPA each semester for this class. Art II or III is a prerequisite. Fee required.*

Course: AP Studio Art 3-D Design

Credit: 1.0

Grade Placement: 11th - 12th

Course Description: students are asked to demonstrate understanding of 3-D design through any three dimensional approach, including, but not limited to, figurative or nonfigurative sculpture, architectural models, metal work, ceramics, glass work, installation, performance, assemblage and 3-D fabric/fiber arts.

Course: Band I-IV

Credit: 1.0 credit

Grade Placement: 9th - 12th

Prerequisites: Approval of the band director and previous band experience (may be waived by band director).

Course Description: is the high school level instrumental music program that offers students the opportunity to increase the skills gained in middle school level band. Continued emphasis is placed on the highest quality of music and marching. Many after school practices and events are required as part of the grade. Enrollment for the full school year is required.

Course: Choral Music I-IV

Credit: 1.0 credit

Grade Placement: 9th-12th

Course Description: Includes 4 performing groups: Concert Men's Choir, Concert Women's Choir, Freshman Women's Choir and Varsity Mixed Chorale. Admission to the choir program is determined by recommendation of the Middle School Choir Director or approval of the High School Choir Director in cases where the student has no middle school choir experience. Admission to the Varsity Mixed Chorale must be approved by the choir director and is based on past choir participation and a student audition with the director that includes sight reading, ear training, and singing for the director.

Course: Theater Arts I: Introduction to Theater and Theater Arts II-IV

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: is an introductory one-year course for students interested in acting and obtaining a basic theater background. This course includes the study of basic acting concepts and skills, expressive use of the body and voice, theater production concepts and skills and aesthetic growth through appreciation of theatrical events.

Course: Theater Arts II-IV

Credit: 1.0 credit

Grade Placement: 10th - 12th

Prerequisite: Theater Arts I.

Course Description: are one-year courses offered in sequence to Theater Arts I. The course content is a continuation of concepts and skills developed in Theater Arts I

Course: Theater Production I-III

Credit: 1.0 credit

Grade Placement: 10th - 12th

Prerequisite: Theatre Arts I (on the high school level)

Course Description: are one-year courses offered in sequence. Each year provides practical hands-on experience in acting and stagecraft through the preparation and performance of scenes, monologues and plays for classroom use. "This class will also include a six week unit on Stage Movement, including Broadway Choreography." Students in these classes are invited to work as technical personnel for the performances of the shows publicly presented by **Theater Production IV.**

Course: Theater Production IV

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: This is an advanced and technical production class, responsible for rehearsing and preparing a season of shows, including a fall production, a children's show, the UIL One-Act Contest Play and the spring performance. **Theater Production IV entrance is by audition and instructor approval only.**

Course: Technical Theatre (I-IV)

Credit: 1.0 credit

Grade Placement: 10th – 12th

Prerequisite: Theatre Arts 1 or Production 1 (on the high school level)

Course Description: this class is designed for hands-on design and construction of sets, costumes, makeup, lights, and stage movement. Students will learn how to construct flats (the basic unit of set construction) as well as how to sew costumes, design and execute multiple makeup designs, design lighting plots and learn how to focus instruments to execute those designs. Students will read plays and design the technical aspects of that show.

Course: Dance I-III (Pre-Drill)

Credit: 1.0 credit

Grade Placement: 9th - 11th grade

Course Description: is a one year course designed to prepare a student for the competitive tryout required to gain membership into the Cherokee Charmers drill team. Tryouts will be in the spring semester of each school year. Students may be obligated to attend extra-curricular activities such as football games, practices outside of the regular school day, and spring show. *An estimated fee of \$50 is **required** for dance clothes and uniforms. This fee will be due by the end of September.* If a student makes the Cherokee Charmers drill team, they will use the clothing purchased in pre-drill, as one of their uniforms.

Course: Dance I-IV (Cherokee Charmers)

Credit: 1.0 credit

Grade Placement: 9th-12th grade

Course Description: is a one year course based off grade level when entering the Cherokee Charmers drill team. The students are individuals selected at the conclusion of the competitive team tryouts as members of the Cherokee Charmers.

FOREIGN LANGUAGE COURSE DESCRIPTION

Course: Spanish I

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: concentrated study in the skills of reading, writing, speaking, listening and comprehension. An introduction of cultural understanding will be incorporated. Upon mastery of Spanish I skills, the student will receive credit and have a foundation for further study.

Course: Spanish II

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: Upon mastery of Spanish I skills, the components of reading, writing, speaking, listening, comprehension and cultural understanding will be extended. Upon mastery of Spanish II skills, the student will receive credit and have a foundation for further study.

Course: Spanish III

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: Upon mastery of Spanish II skills a continuation of the skills developed in Spanish I and II with the incorporation of literature and a more in-depth study of the history of Spanish speaking countries (will be emphasized). Upon mastery of Spanish III skills, the student will receive credit and have a foundation for further study.

Course: Spanish IV / AP Spanish Language and Culture

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: is designed for students showing advanced aptitude toward learning a second language, and who have an interest in developing a stronger proficiency in the communicative skills of listening, speaking, reading and writing Spanish. The history and diverse culture of Spanish-speaking countries will also be studied. Opportunity is given for college credit by taking the College Board AP exam. *Seven extra points will be calculated into the student's overall GPA each semester for this class.*

Course: Spanish V / AP Spanish Literature and Culture

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: The course is intended to be the equivalent of a third-year college Introduction to Spanish Literature course, covering selected works from the literatures of Spain and Spanish America. Because students read and analyze literature orally and in writing in Spanish for the purpose, the language proficiency reached by the end of the AP course is generally equivalent to that of college students who have completed a fifth or sixth semester of Spanish in composition, conversation and grammar as well. *Seven extra points will be calculated into the student's overall GPA each semester for this class.*

PHYSICAL EDUCATION COURSE DESCRIPTIONS

Course: Dance I-III (Pre-Drill)

Credit: 1.0 credit

Grade Placement: 9th-11th grade

Course Description: is a one year course designed to prepare a student for the competitive tryout required to gain membership into the Cherokee Charmers drill team. Tryouts will be in the spring semester of each school year. Students may be obligated to attend extra-curricular activities such as football games, practices outside of the regular school day, and spring show. *An estimated fee of \$50 is **required** for dance clothes and uniforms. This fee will be due by the end of September.* If a student makes the Cherokee Charmers drill team, they will use the clothing purchased in pre-drill, as one of their uniforms.

Course: Dance I-IV (Cherokee Charmers)

Credit: 1.0 credit

Grade Placement: 9th-12th grade

Course Description: is a one year course based off grade level when entering the Cherokee Charmers drill team. The students are individuals selected at the conclusion of the competitive team tryouts as members of the Cherokee Charmers.

Course: Physical Education I-IV

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: are designed to develop students in sportsmanship and team and individual activities. Physical fitness training will be done daily with an emphasis on calisthenics and aerobic workouts including one to two miles of running. The variety of activities enables students to gain knowledge and skills for leisure and lifetime sports activities. Uniforms (shirt and shorts) are rented as a service to students for a nominal fee. The school washes uniforms after each day's activities.

Course: Physical Education Equivalents I-IV

Credit: 1.0 credit

Grade Placement: 9th - 12th

Course Description: Courses are designed for those students in athletic events (football, basketball, volleyball, baseball, soccer, golf and tennis) and cheerleading.

Course: Adventure/Outdoor Living Education

Credit: 0.5 – 1.0

Grade Placement: 9th – 12th

Course Description: Students will develop competency in outdoor education activities such as backpacking, hunter safety, conservation, archery, camping, hiking, orienteering, water sports, or water safety that provide opportunities for enjoyment and challenge.

Course: Cheerleading (I-IV)

Credit: 1.0 credit

Grade Placement: 9th-12th

Course Description: is a method of earning PE credit. The students are selected through competitive tryouts. Students enrolled in this course are obligated to extra-curricular activities and practices outside of the regular school day.

HEALTH COURSE DESCRIPTION

Course: Sports Medicine I & II

Credit: 1.0 credit

Grade Placement: 10th – 12th Course Description: provides practical career oriented content for students interested in athletic training or sports medicine. This course will include anatomy, injury prevention, recognition, and rehabilitation.

The University of Texas at Austin OnRamps Courses

Jacksonville High School will offer four courses through The University of Texas at Austin OnRamps program for the 2019-2020 school year.

- PHYS 1301 (General Physics I - Mechanics, Heat, and Sound)
- UT Computer Science 302 (Thriving in our Digital World)
- Math 1314 (College Algebra)
- UT Geol 302E (Intro to Geoscience- Earth, Wind and Fire)

OnRamps is a dual enrollment program from the University of Texas at Austin that brings the college experience to the High School classroom, transforming how students learn and preparing them for post-secondary success.

- Students will earn a University of Texas at Austin Transcript
- OnRamps college course credit is accepted at any public university or college in Texas as well as many private and non-Texas institutions.

OnRamps Dual Enrollment Process:

1. Students are enrolled in a yearlong course taught by their high school teacher for high school credit
2. During the fall semester OnRamps students must complete a series of required online assignments, which are designated by an instructor of Record at The University of Texas at Austin. Students earn a grade that would be equivalent to UT Austin credit or better on the required assignments to be eligible to be dually enrolled in the university course offered during the spring semester.
3. During the spring semester students must complete a series of additional required assignments that are designated by the university's instructor of record to determine successful completion of the college course.
4. The university's instructor of record will award students the appropriate grade based on their performance for the college course. The high school teacher will separately award credit for the grade earned in the high school course, which may differ for that for the college course.

Students interested in enrolling in an OnRamps Course must meet all JHS Pre-Requisite requirements and UT Austin Pre-Requisite requirements.

General Physics I - Mechanics, Heat and Sound: **JHS Pre-Requisites:** Must be an 11th or 12th grade student in the 2019-2020 school year who has previously taken Algebra I, Algebra II and Geometry. **UT Austin OnRamps Pre-Requisites:** Algebra I, Algebra II, and Geometry

Introduction to Geoscience – Earth, Wind and Fire: **JHS Pre-Requisites:** Must be an 11th or 12th grade student in the 2019-2020 school year who has previously taken Algebra I, Geometry and/or currently taking Algebra II. The student must also have three science credits, one of which may be taken concurrently. **UT Austin OnRamps Pre-Requisites:** Biology and Chemistry; or IPC and Chemistry

College Algebra: **JHS pre-requisites:** Must be a 10th or 11th grade student in the 2019-2020 school year who has previously taken Algebra I and Pre-AP Geometry. **UT Austin OnRamps Pre-Requisites:** Algebra I and Geometry

Computer Science: **JHS Pre-Requisites:** Open to all grade levels of students who have previously taken Algebra I. **UT Austin OnRamps Pre-Requisites:** Algebra I

For more information please contact your grade level Counselor or the College and Career Advisor.

Career and Technical Education

Career Clusters

Students may choose a Career Pathway from any of the following AchieveTexas Career Clusters.

- Agricultural, Food and Natural Resources
- Arts, A/V Technology and Communication
- Education and Training
- Business and Finance
- Health Science
- Hospitality and Tourism
- Transportation, Distribution and Logistics

Industry Certification Programs

Numerous industry certification programs are available at Jacksonville High School. Exam fees are paid by the Career and Technical Education Department for qualified students.

Potential Industry Licensure and Certification Opportunities Available at JHS Include:

- Adobe Certified Associate (ACA) in Photoshop, Dreamweaver and Flash
- Cardiopulmonary Resuscitation (CPR)
- Certified Veterinary Assistant (CVA)
- Internet & Computing Core (IC3)
- Microsoft Office Specialist in Word, Excel, PowerPoint and Outlook
- Equipment and Engine Training Council (EETC) for all Outdoor and Power Equipment Courses.
- OSHA CareerSafe Construction Industry
- OSHA CareerSafe General Industry
- ServSafe
- Texas Food Handlers
- Texas Master Gardner
- Floral Design

Special Education Placement

Students receiving special education services when appropriate should be included in Career and Technical Education as a part of a chosen career Program of Study. As mandated by TEA, there are no longer any VEH or IVE programs available; therefore, in this course catalog, there are no special courses listed as such. Self-contained courses will follow a similar course description as those listed; however, student age, grade and re-enrollment status are all at the discretion of the ARD committee. Please contact the Jacksonville High School Special Education Supervisor for specific self-contained courses available.

Course Descriptions

Agricultural, Food and Natural Resources

Course: Principles of Agriculture Food and Natural Resources

Credit: 1

Grade Placement: 9 - 12

Course Description: An introductory course into the agriculture industry, allows students to gain basic knowledge over a variety of agriculture topics. This course includes topics such as the National FFA Organization, livestock, food, and fiber industries, plant and soil science, natural resources, agricultural mechanics, and personal finances / record-keeping. Students will be strongly encouraged to join and participate in the Jacksonville FFA Chapter.

Course: Small Animal Management

Credit: .5 Fall Semester

Grade Placement: 10 – 12

Prerequisite: Principles of Agriculture Food and Natural Resources

Course Description: This course focuses on animal systems, career opportunities, and entry requirements in the small animal industry, a growing multi-million dollar industry. Animal species to be addressed in this course of study include, but are not limited to: small mammals, amphibians, reptiles, avian, dogs, and cats. Students will be strongly encouraged to join and participate in the Jacksonville FFA Chapter.

Course: Equine Science

Credit: .5 SPRING Semester

Grade Placement: 10 – 12

Prerequisite: Principles of Agriculture Food and Natural Resources

Course Description: This course will help students learn selection, nutrition, reproduction, health, and management of horses in the equine industry. Animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules. Students will have the opportunity to participate on the Horse Judging CDE team as well as field trips to local equine facilities. Students will be strongly encouraged to join and participate in the Jacksonville FFA Chapter.

Course: Livestock Production

Credit: 1

Grade Placement: 10 – 12

Prerequisite: Principles of Agriculture Food and Natural Resources

Course Description: This year-long class concentrates on the practical application of science based principles of food animal production. Subjects covered include, but are not limited to: breeds of animals, animal reproduction, animal nutrition, animal genetics, animal products, animal pests and diseases, animal health, parturition, record keeping, agriculture leadership and more. Students will be strongly encouraged to join and participate in the Jacksonville FFA Chapter.

Course: Veterinary Medical Applications

Credit: 1

Grade Placement: 10 - 12

Prerequisite: Livestock Production / Equine Science or Small Animal Management

Course Description: The purpose of this course is to prepare students for careers in the field of animal science, with a specific focus on veterinary practices as they relate to both large and small animal species. Students will acquire academic skills and knowledge, as well as technical knowledge and skills related to animal systems and the workplace. They will also develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Students will be strongly encouraged to join and participate in the Jacksonville FFA Chapter.

Course: Advanced Animal Science

Credit: 1

Grade Placement: 1 1- 12

Prerequisite: Small Animal Management and Equine Science or Livestock Production

Must have passed Biology and Chemistry or IPC, Algebra I and Geometry.

Course Description: Students will continue their study in animal health, nutrition, reproduction, and management with a focus on disease, parasites, and basic surgical procedures related to animal health and veterinary medicine. Students will be strongly encouraged to join and participate in the Jacksonville FFA Chapter. (can be used as 4th science)

Course: Horticulture Science

Credit: 1.0

Grade Placement: 10 - 12

Prerequisite: Principles of Agriculture Food and Natural Resources

Course Description: An introductory level course to the Horticulture Industry. This course covers topics such as horticultural career opportunities, basic plant science, propagation, vegetable, fruit, and nut production, landscape and turf management, and differences in hobby and large-scale production. Students will be actively involved in lab activities in the greenhouse propagating, growing, and preparing plants for retail sale. Students will be strongly encouraged to join and participate in the Jacksonville FFA Chapter.

Course: Floral Design

Credit: 1

Grade Placement: 9 - 12

Course Description: This course is designed to introduce students to the career possibilities in the floral industry and to provide knowledge in the techniques of floral design. Students will develop creative floral arrangements for a variety of traditional events while using principles of art and design. Business management practices and career opportunities will be discussed intensively. Students will be strongly encouraged to join and participate in the Jacksonville FFA Chapter. (can be used as a fine arts credit)

Course: Advanced Plant and Soil Science

Credit: 1

Grade Placement: 12

Prerequisite: A minimum of one credit from the courses in the Agriculture, Food, and Natural Resources cluster. Must have passed Biology and IPC, Chemistry or Physics.

Course Description: Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting. (Can be used as 4th science)

Course: Agricultural Mechanics & Metal Technologies

Credit: 1

Grade Placement: 10 -12

Prerequisite: Principles of Agriculture Food and Natural Resources

Course Description: This course teaches proficiency in cutting and welding, along with the sciences and properties of various metals and fusing and cutting techniques. Students will be expected to use the oxy-fuel rig for cutting and welding, and the SMAW (arc) welder using various types of electrodes. Welding will be performed in several positions which include flat, horizontal, and vertical. The course develops an understanding of tool operation, electrical wiring, plumbing, carpentry, and metal working techniques. Students will obtain NCCER Core certification in this course. Unsafe behavior may result in dismissal from the class and entire program. Students will be strongly encouraged to join and participate in the Jacksonville FFA Chapter.

Course: Agricultural Facilities Design and Fabrication

Credit: 1

Grade Placement: 10 - 12

Prerequisite: Agricultural Mechanics & Metal Technologies

Course Description: Students attain knowledge and skills related to agricultural facilities design and fabrication. Students explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings. This course focuses heavily on designing structures including barns, animal facilities, workshops, and storage facilities for specific agricultural uses. Unsafe behavior may result in dismissal from the class and entire program. Students will be strongly encouraged to join and participate in the Jacksonville FFA Chapter.

Course: Welding I

Credit: 2

Grade Placement: 10 - 12

Prerequisite: Agricultural Mechanics & Metal Technologies and NCCER Core

Course Description: Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success

Course: Welding II

Credit: 2

Grade Placement: 11-12

Prerequisite: Welding I and NCCER Core

Course Description: Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course qualifies for dual credit through Tyler Junior College.

Course: Practicum in Ag, Food & Natural Resources

Credit: 2 credits

Grade Placement: 11 - 12

Prerequisite: Recommended: a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources cluster.

Course Description: The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories.

Arts, Audio/Video Technology, and Communications

Course: Principles of Arts, Audio/Video Technology, and Communications

Credit: 1

Grade Placement: 9 - 12

Course Description: Students are introduced to knowledge and skills required of careers in the Arts, Audio/Video Technology, and Communications. Students will discover the history of communication, learn about script writing and even produce an old time radio program. Within this course, students will be expected to develop an understanding of the various and multifaceted career opportunities. Students should have a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

Course: Digital Media

Credit: 1

Grade Placement: 10- 12

Prerequisites: Principles of Arts, Audio/Video Technology, and Communications

Course Description: Through the study of digital and interactive media and its application in information technology, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment. This course qualifies for dual credit through Tyler Junior College.

Course: Audio/Video Production I

Credit: 1

Grade Placement: 10 – 12

Prerequisite: Principles of Arts, Audio/Video Technology, and Communications

Extracurricular work will be required

Course Description: Careers in audio and video technology and production span all aspects of the audio/video communications industry. Within this course, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will develop an understanding of the industry with a strong focus on pre-production, production, and post-production. Students will be involved in audio and video activities in order to produce videos and programs to be broadcast on the JISD's television station JNDN-TV. Selected programs will be seen on the school website as well as local cable channel 20.

Course: Advanced Audio/Video Production II

Credit: 2

Grade Placement: 11 - 12

Prerequisites: Principles of Arts, Audio/Video Technology, and Communications

Audio/Video Production

Extracurricular work will be required

Course Description: Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this course, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities. Intensive work with these activities will cumulate in professional quality productions for JISD's television station JNDN-TV as well as the districts web site.

Course: Graphic Design and Illustration I

Credit: 1

Grade Placement: 10 – 12

Prerequisite: Principles of Arts, Audio/Video Technology, and Communications or Art II

Course Description: In addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students taking this course will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

Business Management and Administration

Course: Business Information Management (BIM I)

Credit: 1

Grade Placement: 9 - 12

Course Description: Students implement personal and interpersonal skills to strengthen individual performance in the workplace and post- secondary education. Students will apply technical skills through word-processing, spreadsheet, database and electronic presentation software.

Course: Business Information Management II (BIM II)
Credit: 1
Grade Placement: 10 - 12
Prerequisites: Business Information Management
Course Description: Students implement personal and interpersonal skills to strengthen individual performance in the workplace and post- secondary education. Students will apply complex technical skills through word-processing and spreadsheet, and developing electronic presentations using multimedia software. This course qualifies for dual credit through Tyler Junior College. *Seven extra points will be calculated into the student's overall GPA each semester for this class.*

Course: Principles of Business, Marketing, and Finance
Credit: 1
Grade Placement: 9 - 11

(a) General requirements. This course is recommended for students in Grades 9-11. In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles.

Course: Accounting I
Credit: 1 credit
Grade Placement: 10 - 12
Prerequisites: Recommended Principles of Business, Marketing, and Finance
Course Description: Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students formulate and interpret financial information for use in management decision making.

Course: Accounting II
Credit: 1 credit
Grade Placement: 10 - 12
Prerequisites: Accounting I This course satisfies a high school mathematics graduation requirement.
Course Description: Students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial technological, international, social, legal and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial and operational accounting activities. Students will formulate, interpret and communicate financial information for use in management decision making.

Education and Training

Course: Principles of Education and Training
Credit: 1
Grade Placement: 9 - 12
Prerequisites: None
Course Description: Principles of Education and Training is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster.

Course: Human Growth and Development
Credit: 1
Grade Placement: 10 – 12
Prerequisite: Principles of Education and Training

Course Description: Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones.

Course: **Instructional Practices in Education and Training**

Credit: 2

Grade Placement: 11 - 12

Prerequisites: **Principles of Education and Training**
Human Growth and Development

Course Description: A field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching practices. Students will work under the joint direction and supervision of a teacher who has expertise in the areas of child development and educational methodology and an exemplary educator who is working in an instruction role in an elementary/middle/high school setting. Students will learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers.

Health Science

Course: **Principles of Health Science**

Credit: 1

Grade Placement: 9 - 12

Course Description: The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

Course: **Medical Terminology**

Credit: 1

Grade Placement: 10 - 12

Course Description: This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Course: **Health Science Theory**

Credit: 1

Grade Placement: 10 - 12

Recommended Prerequisites: **Principles of Health Science and Biology**

Course Description: The Health Science course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. This course qualifies for dual credit through Tyler Junior College.

Course: **Practicum in Health Science**

Credit: 2

Grade Placement: 11 - 12

Prerequisites: **Principles of Health Science and Biology**
OSHA Certification

Course Description: This course is designed to give students supervised practical application of previously studied knowledge and skills. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education.

Hospitality and Tourism

Course: Principles of Hospitality and Tourism

Credit: 1

Grade Placement: 9 - 10

Course Description: The hospitality and tourism industry includes lodging; travel and tourism; recreation, amusements, attractions, and resorts; restaurants and food beverage service. Students use knowledge and skills that meet industry standards to function effectively in various positions within this exciting and growing industry.

Course: Intro to Culinary Arts

Credit: 1

Grade Placement: 10- 11

Prerequisite: Principles of Hospitality and Tourism

Course Description: This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. Students will gain insight into the operation of a well-run restaurant.

Course: Culinary Arts

Credit: 2

Grade Placement: 10 - 12

Recommended Prerequisites: Principles of Hospitality and Tourism and Restaurant Management

Course Description: This laboratory-based course begins with the fundamentals and principles of the art of food preparation and includes management and production skills and techniques. Students can pursue a national sanitation certification and other appropriate industry certifications. The knowledge and skills required for careers in the restaurant, food, and beverage industry are practiced as food is prepared for campus based restaurant.

Course: Advanced Culinary Arts

Credit: 2

Grade Placement: 11 - 12

Prerequisites: Culinary Arts and Serve Safe Certification

Course Description: This laboratory-based course begins with the fundamentals and principles of the art of food preparation and includes management and production skills and techniques. Students can pursue a national sanitation certification and other appropriate industry certifications. The knowledge and skills required for careers in the restaurant, food, and beverage industry are practiced as food is prepared for campus based restaurant.

Course: Interior Design

Credit: 1

Grade Placement: 10- 12

Course Description: Interior Design I is a technical course that addresses physiological and sociological needs of individuals by enhancing the environments in which they live and work. Students will use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, promote sustainability, and compete in industry. Students are strongly encouraged to participate in extended learning experiences through FCCLA and other leadership or extracurricular organizations.

Transportation, Distribution, and Logistics

Course: Principles of Transportation Systems

Credit: 1

Grade Placement: 9 - 12

Course Description: Students gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws, and regulations, and

common practices used in the logistics of warehousing and transportation systems. This course allows students to reinforce, apply and transfer their knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

Course: Energy, Power and Transportation Systems

Credit: 1

Grade Placement: 9 - 12

Course Description: Introduces students to the business and industries of the transportation careers. Student will learn to understand the interaction between various vehicle systems, and the logistics used to move goods and services. Students prepare to meet the expectations of employers in this industry.

Course: Small Engine Technology I

Credit: 1

Grade Placement: 10 - 12

Prerequisites: Principles of Transportation Systems and Energy, Power of Transportation

Course Description: This course is designed to provide training for entry-level employment in the small engine technology industry. Engine Technology includes knowledge of the function, diagnosis, and service of the systems and components of all types of small engines such as lawn mowers, motorcycle, and irrigation engines. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems and small engine overhauls. In addition, students will receive instruction in safety, academic, and leadership skills as well as career opportunities. EETC certification will be offered. OSHA Certification will be obtained.

Course: Small Engine Technology II

Credit: 2

Grade Placement: 11 - 12

Prerequisites: Small Engine Technology I and OSHA Certification

Course Description: Advanced Small Engine Technology includes advanced knowledge of the function, diagnosis, and service of the systems and components of all types of small engines such as lawn mowers, motorcycles, and irrigation engines. This course is designed to provide advanced training for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems and small engine overhauls. In addition, the student will receive instruction in safety, academic, and leadership skills as well as career opportunities. EETC certification will be offered.

Career Preparation

Course: Career Preparation I

Credit: 2-3

Grade Placement: 12

Career Preparation I provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. This instructional arrangement should be an advanced component of a student's individual program of study. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

*The student will be required to meet the entrance criteria listed for the Career Education Preparation Program.

*The student must show proof of employment.

*The student must have passed the end of course exams required for graduation and be on schedule to graduate.

Course: Principles of Law, Public Safety, Corrections and Security

Credit: 1.0

Grade Placement: 9-12

Course Description: The Law, Public Safety, Corrections and Security Career cluster focuses on planning, managing, and providing legal services, public safety, protective services and homeland security including professional and technical support services. *This is an online class.*

Course: Principles of Applied Engineering

Credit: 1.0

Grade Placement: 9-12

Course Description: This course provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

