

Course Catalog



2018-2019

**Deshler
High
School**

2018-2019

DESHLER HIGH SCHOOL

Graduation Information and Requirements

The Alabama Course of Study (outlined by the Alabama State Board of Education) determines course content by which course offerings at Deshler are governed. While counselors and teachers are available to help with appropriate course choices, students and their parents/guardians have the responsibility to select the diploma type and choose related courses to meet all graduation requirements. Prerequisites must be considered and choices evaluated according to educational and career goals.

May 17 is the deadline for all change requests due to INOW scheduling system. After that date, request errors for which the school staff is responsible will be corrected or changed. Also, requests for change will be considered only if the change will aid the school in balancing classes. Course selection is not a trial-and-error decision; students should treat registration as a most important decision-making time.

Course decisions for the following school year are made during registration in the spring, and faculty assignments are based on request numbers. Student must select a total of eight (8) credits plus three (3) alternate courses. It is imperative that students promptly return the completed form with course numbers to the guidance office. A parent's/guardian's signature is required. During the first three days of school, consideration will be given to requests for schedule changes. The process requires students completing a change-of-schedule form and immediately returning it to the guidance office for principal's review. Because the master schedule offers little flexibility, requests for change are discouraged. There will be no changes after the first three days with the exception and consideration of teacher recommendation. Because of the INOW format, schedule changes will be extremely limited.

Deshler High School will award a Standard Diploma or an Advanced Academic Diploma to students as determined by requirements listed.

The Standard Diploma or an Advanced Academic Diploma will be awarded to students who acquire the specified minimum credits in defined programs. Students will be required to earn all credits, take end-of-course tests, and participate in one administration of the ACT (as planned by the Alabama State Department of Education).

National Honor Society of Deshler High School

Please note: Consideration for membership in the National Honor Society is dependent on a student's meeting the following requirements in the school and community:

- ◆ **notable service**
- ◆ **responsible leadership**
- ◆ **exemplary character**
- ◆ **90.0 cumulative grade average (This average begins in grade nine.)**

Eligibility status is determined during a student's eleventh grade year. It is the responsibility of the student to plan his/her curriculum to meet these requirements. Preparing a comprehensive resume beginning in grade 9 and updating it each year will be beneficial when documentation of notable service, responsible leadership, and exemplary character is needed.

Senior Honor Students (determined for graduation ceremony)

To be designated as an honor student at graduation from Deshler High School, a student must

1. earn an Advanced Diploma, and
2. on a scale of 0-100 points, have a cumulative grade average, which ranks the student as one of the top ten academic students in the senior class. These students will have the ten highest grade averages of those on the Advanced Diploma.

Grades

The grading scale of Deshler High School follows: A=90-100; B=89-80; C=79-70; D=69-60; F=59-0. All grading reports are given to students to take home to parents. There are four grading periods of nine weeks each. At the midpoint of each grading period (about 4 ½ weeks), students receive progress reports. At the end of each grading period, students receive report cards. Parents should see these reports. Parents also may view grades, attendance, discipline, homework assignments, etc. online. Parents should call the school to receive the two codes needed to access each student's information. The online site is www.deshlerhigh.org. In the left column of the home page, select "grades" and continue.

Valedictorian/Salutatorian

The honor student with the highest grade average is the valedictorian. The honor student with the second highest grade average is the salutatorian. The valedictorian, salutatorian, and honor students will be determined after the third nine weeks grades in the second term of the senior year. The nine weeks grades at that time will reflect the weight of one-half credit.

Residency requirement: To be eligible for valedictorian or salutatorian, a student must have been a student at Deshler High School for a total of at least two complete academic years.

ACCESS Distance Learning Program

ACCESS Distance Learning is an education initiative of the Alabama Department of Education. It provides opportunities for Alabama public high school students to engage in Advanced Placement (AP), elective, and other courses to which they may not otherwise have access. All courses are offered at school during the regular school day by Internet connection linking classrooms, educators and students statewide. Courses are taught by highly-qualified teachers from their home school and linked by the Internet to students across the state. Courses linked from other schools online will be monitored by a trained facilitator. An ACCESS Distance Learning class may receive one credit, and the grade is included in rank and grade point average. Plagiarism, a form of cheating, will result in ACCESS administrators dismissing the students from the class with a zero average.

Additionally, it is recommended that students enrolled in AP classes take the Advanced Placement exam offered by the College Board in anticipation of receiving college credit for the class. The College Board charges a fee for each AP exam administered at Deshler in May through College Board.

Students interested in ACCESS must meet with the high school guidance counselor and complete the proper paperwork and submit a signed parent permission form prior to being allowed to enroll in ACCESS courses.

For a complete list of available courses, visit the ACCESS Distance Learning web site at <http://accessdl.state.al.us>. There may be a lab fee assessed by the school depending upon which course is taken.

Dual Credit/Dual Enrollment

Dual credit/dual enrollment options are available with local colleges to students who have completed grade ten and have a "B" average or above. The student must have attained the prerequisites required to enter the Early College/Dual Enrollment program at their prospective college. Any transportation, tuition, fees, or cost for those classes will be the responsibility of the students and parents/guardians. The student must have permission of the parent/guardian, superintendent, principal, and counselor and have completed the proper paperwork in a timely manner in the Deshler Counseling office in order to enroll in a dual credit and/or dual enrollment course at a college. The student's schedule at Deshler High School will have priority in determining the time and course selected at the college.

Muscle Shoals Center for Technology

A limited number (25) of Deshler Juniors and Seniors may attend the Muscle Shoals Center for Technology to enroll in courses offered for auto body, welding, carpentry, or cosmetology. Any transportation, supplies, and fees will be the responsibility of the students and parents/guardians. In order to be selected to enroll in courses at MSCFT, each student must complete a selection process. A limited number of students will be selected to attend. Each student must:

- Complete application to attend MSCFT
- Complete the self-assessments on alcareerinfo.org
- Meet with the counselor to discuss self-assessment results and application

The selection committee will make the final decision of attendees.

NATIONAL COLLEGIATE ATHLETIC ASSOCIATION **CLEARINGHOUSE: NCAA**

The NCAA website is www.eligibilitycenter.com.

This NCAA Clearinghouse checks academic eligibility, including ACT and/or SAT scores and transcripts, of prospective college-bound athletes for both Division I and Division II sports. Parents and students interested should log on to the website during the student's eighth or ninth grade to see core course requirements, check the core courses/credits approved by NCAA for Deshler High School, and other guidelines set by NCAA. A printable copy of the NCAA Guidelines is online; DHS suggests that parents and students print a copy, study, and highlight it. Please know that parents and students should consult the guidelines each year because the NCAA may revise a requirement and update the website. Guidelines that should never change include the following: prospective college bound student athletes **must** take college preparatory core classes, receive good grades, talk with their counselors and coaches about the NCAA requirements each year, and have ACT/SAT scores sent to the NCAA. **Course credit values awarded at the high school level may differ from NCAA values.** Values are dependent on the course and guidelines outlined by the NCAA. Assistance with registration and/or verification of Clearinghouse credits may be provided upon request by the athlete or parent(s) from either the coaching staff or guidance department. However, registration and verification of Clearinghouse credits are the full responsibility of the athlete and his/her parents.

At the completion of a student's junior year, he/she must register online with the Clearinghouse (cost in the \$60-\$70 range) and request that the counselor send a copy of the current high school transcript. The student must complete and turn in a "request-to-send-transcript" form to the guidance office. (A transcript with six semesters is preferred.) NCAA payment is done online with a credit card. The Clearinghouse requires that the student request ACT and/or SAT send copies of scores. The student must make that request as he/she registers to take either test by including the NCAA code of 9999 as one of the choices to receive the score. If the student participates in the federally funded lunch program and has used an ACT or SAT fee waiver, the NCAA application fee can be waived. The senior counselor must verify that information; therefore, the student should alert the counselor to expect a verification notice from NCAA. A copy of the final transcript will be sent in early June, after graduation, so that the NCAA can verify completion of high school requirements.

Deshler High School complies with title VI which prohibits discrimination on the basis of race, color, or national origin in any program or activity receiving Federal financial assistance; Title IX which prohibits discrimination on the basis of sex in education programs or activities receiving Federal financial assistance; and Section 504 which prohibits discrimination on the basis of handicap in programs or activities receiving Federal financial assistance. Deshler High School complies with ESEA, as amended by NCLB, and 2002 Defense Reauthorization, Act requiring public school to provide students' names, addresses, and telephone listings to military recruiters, when requested, unless a parent has opted out of providing such information.

Diploma Options for Students in the Class of 2021 and 2022

*If a student does not maintain an average of 80 or above in Biology I and Algebra I or have recommendations from Biology and Algebra teachers, the student should take Physical Science prior to enrolling in Chemistry.

**A foreign language is recommended but not required for standard diploma. ALL athletes are encouraged to take a foreign

Advanced	Standard
4 credits in English <ul style="list-style-type: none"> • Honors English 9 • Honors English 10 • Honors English 11 • Honors English 12 , AP English 12 or Dual Enrollment English 101 or 102 	4 credits in English <ul style="list-style-type: none"> • English 9 • English 10 • English 11, Dual Enrollment 101 • English 12, Dual Enrollment 101 or 102
4 credits in math <ul style="list-style-type: none"> • Algebra I • Honors Geometry • Algebra II with Trigonometry • Math Investigations or Pre-calculus 	4 credits in math <ul style="list-style-type: none"> • Algebra I or Algebra IA and IB • Geometry • Algebra II or Algebra II w/Trig • Math Elective
4 credits in social studies <ul style="list-style-type: none"> • Honors World History • Honors US History to 1877 • Honors US History 1877 - Present or AP US History • Honors Government /Economics 	4 credits in social studies <ul style="list-style-type: none"> • World History • US History to 1877 • US History 1877 to Present • Government/Economics
4 credits in science <ul style="list-style-type: none"> • Honors Biology • Chemistry I* • Two Electives from Physics, Forensic Science, Human Anatomy & Physiology 	4 credits in science <ul style="list-style-type: none"> • Biology I • Physical Science • 2 Science Electives
1 credit in Advanced Composition and Speech	
1 credit in Career Preparedness	1 credit in Career Preparedness
1 Foreign Language credit	Foreign language recommended**
2 credits in CTE/Arts Education, and/or Foreign Language. Students are encouraged to complete two courses in sequence.	3 credits in CTE/Arts Education, and/or Foreign Language. Students are encouraged to complete two courses in sequence.
1 credit in Physical Education (L.I.F.E.) (Lifelong Individualized Fitness Education)	1 credit in Physical Education (L.I.F.E.) (Lifelong Individualized Fitness Education)
0.5 credit in Health	0.5 credit in Health
Electives	Electives
Total of 28 credits	Total of 24 credits

language in order to meet NCAA eligibility requirements. Some colleges require a foreign language for admission.

Diploma Options for Students in the Class of 2019 and 2020

*If a student does not maintain an average of 80 or above in Biology and Algebra I or have recommendations from Biology and Algebra teachers, the student should take Physical Science prior to enrolling in Chemistry.

Advanced	Standard
4 credits in English <ul style="list-style-type: none"> • Honors English 9 • Honors English 10 • Honors English 11 • Honors English 12 , AP English 12 or Dual Enrollment English 101 or 102 	4 credits in English <ul style="list-style-type: none"> • English 9 • English 10 • English 11, Dual Enrollment 101 • English 12, Dual Enrollment 101 or 102
4 credits in math <ul style="list-style-type: none"> • Algebra I • Honors Geometry • Algebra II with Trigonometry • Math Investigations or Pre-calculus 	4 credits in math <ul style="list-style-type: none"> • Algebra I or Algebra IA and IB • Geometry • Algebra II or Algebra II w/Trig • Math Elective
4 credits in social studies <ul style="list-style-type: none"> • Honors World History • Honors US History to 1877 • Honors US History 1877 - Present or AP US History • Honors Government /Economics 	4 credits in social studies <ul style="list-style-type: none"> • World History • US History to 1877 • US History 1877 to Present • Government/Economics
4 credits in science <ul style="list-style-type: none"> • Honors Biology • Chemistry I* • Two Electives from Physics, Forensic Science, Human Anatomy & Physiology 	4 credits in science <ul style="list-style-type: none"> • Biology I • Physical Science • 2 Science Electives
1 credit in Advanced Composition and Speech	
1 credit in Career Preparedness	1 credit in Career Preparedness
1 Foreign Language credit	Foreign language recommended**
2 credits in CTE/Arts Education, and/or Foreign Language. Students are encouraged to complete two courses in sequence.	3 credits in CTE/Arts Education, and/or Foreign Language. Students are encouraged to complete two courses in sequence.
1 credit in Physical Education (L.I.F.E.) (Lifelong Individualized Fitness Education)	1 credit in Physical Education (L.I.F.E.) (Lifelong Individualized Fitness Education)
0.5 credit in Health	0.5 credit in Health
Electives	Electives
Total of 26 credits	Total of 24 credits

**A foreign language is recommended but not required for standard diploma. ALL athletes are encouraged to take a foreign language in order to meet NCAA eligibility requirements. Some colleges require a foreign language for admission.

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The courses listed below are designed to assist students and parents in planning the student's schedule for this school year. If questions concerning a course are still unanswered after reading the descriptions, contact a counselor at Deshler High School (256 389-2910) for further assistance.

ENGLISH

ENGLISH 9 (course 200005) emphasizes language and writing skills. Students study verbal usage, coordination and subordination, parallel structure, sentence variety, and originality. An introduction to research is also emphasized. The study of literature requires reading, analyzing, and writing about given literary works (novels, short stories, poetry, and drama). Students will take the state provided end of course test.

Grade level: 9

Prerequisite: English 8

Credit: 1

HONORS ENGLISH 9 (course 200006) includes an accelerated study of grammar, punctuation, spelling, vocabulary, and the writing process. Students focus on different types of expository and expressive writing, complete a "mini" research paper, and study elements of the novel, short story, poetry, and drama. Students will take the state provided end of course test.

Grade level: 9

Prerequisite: English 8 and parental approval

Credit: 1

ENGLISH 10 (course 200009) emphasizes language skills, including punctuation, sentence structure, paragraph development, and standard usage. Short writing assignments are completed as well as developed essays in the narrative, persuasive, and expository modes. Pre-twentieth century American literature is examined. At least one novel is assigned each nine weeks. Students will take the state provided end of course test.

Grade level: 10

Prerequisite: English 9 or Honors English 9

Credit: 1

HONORS ENGLISH 10 (course 200010) emphasizes language skills, including punctuation, sentence structure, paragraph development, and standard usage. Short writing assignments are frequent, and a variety of essays in the narrative, persuasive, and expository modes are completed in response to required reading. An extensive study of pre-twentieth century American literature is required. At least one novel is assigned each nine weeks. Students will take the state provided end of course test.

Grade level: 10

Prerequisite: English 9, Honors English 9, and/or parental approval

Credit: 1

ENGLISH 11 (course 200013) emphasizes a survey of major American literature from colonial times to the present. Students will analyze literature and recognize its position in historical context. Major emphasis is also given to the development of composition skills, including frequent writing assignments. A research paper is required. Students will take the state provided end of course test.

Grade level: 11

Prerequisite: English 10 or Honors English 10

Credit: 1

HONORS ENGLISH 11 (course 200014) is an accelerated course covering an extensive survey of American literature. Students follow a comprehensive writing program stressing both expository writing and literary analysis. A research paper, critical analysis of poetry, fiction and nonfiction, and supplementary novels are required. Students will take the state provided end of course test.

Grade level: 11

Prerequisite: English 10, Honors English 10, and/or parental approval

Credit: 1

ENGLISH ESSENTIALS 11 (course 700007) emphasizes application of previously learned skills. Students exhibit increased knowledge of reading, writing, and language usage through interaction with the school, community, and work settings. Students will take the state provided end of course test.

Grade level: 11

Prerequisite: English Essentials 10

Credit: 1

ENGLISH 12 (course 200017) coordinates the study of British literature and composition. Students will refine composition techniques and the study of grammar will be coordinated with writing skills. A research paper and supplementary novels are required.

Grade level: 12

Prerequisite: English 11

Credit: 1

HONORS ENGLISH 12 (course 200018) is an accelerated course for seniors who are planning to attend college. The course coordinates the study of British literature with an extensive reading and writing program that stresses literary analysis. A research paper, supplementary novels, and poetry explication are required.

Grade level: 12

Prerequisite: English 11, Honors English 11, Dual Enrollment English, AP English 11, and/or parental approval

Credit: 1

ENGLISH ESSENTIALS 12 (course 700008) allows students the opportunity to demonstrate previously taught skills to acquire increased proficiency through practice in specific work settings. Students demonstrate learned skills as they successfully make the transition from school to community and competitive employment. This is a Work Essentials equivalent course.

Grade level: 12

Credit: 1

ADVANCED PLACEMENT (AP) ENGLISH 12: LITERATURE AND COMPOSITION (course 200020) is designed for highly motivated seniors who enjoy literature and wish to attempt college level work. The course includes world masterpieces of recognized literary merit. Writing assignments focus on the critical analysis of literature. Students will be responsible for the cost of the textbook for this course as well as the cost of the AP Exam.

Grade level: 12

Prerequisite: English 11, Honors English 11, Dual Enrollment English, and/or parental approval

Credit: 1, college credit may also be obtained based on AP test score

ADVANCED COMPOSITION AND SPEECH (course 200043) is a course designed for college-bound students. It cannot be substituted for English 11 or English 12 and is open to only 11th and 12th grade students. The course includes developing writing and speaking skills that are important for success in college.

Grade level: 11-12

Prerequisite: Advanced Diploma track

Credit: 1

ENGLISH COMPOSITION I (ENGLISH 101) – DUAL ENROLLMENT (course 903201)

provides instruction and practice in the writing of at least six (6) extended compositions and the development of analytical and critical reading skills and basic reference and documentation skills in the composition process.

English Composition I may include instruction and practice in library usage.

Grade level: 11-12

Prerequisite: Successful completion of ENG 093; or a score of 42 or better on the English section of ASSET; or a score of 20 or better on the ACT (or equivalent SAT score).

Credit: 1

ENGLISH COMPOSITION II (ENGLISH 102) – DUAL ENROLLMENT (course 903202)

provides instruction and practice in the writing of six (6) formal, analytical essays, at least one of which is a research project using outside sources and/or references effectively and legally. Additionally, English Composition II provides instruction in the development of analytical and critical reading skills in the composition process. English Composition II may include instruction and practice in library usage.

Grade level:12

Prerequisite: A grade of "C" or better in ENG 101 or the equivalent.

Credit: 1

CREATIVE WRITING (Course 200033) NOTE: DOES NOT FULFILL ANY OF THE FOUR ENGLISH CREDITS REQUIRED FOR GRADUATION. Students compose poetry, short stories, and critical responses.

Grade level: 9-12

Prerequisite: None

Credit: 1

LITERATURE, NOVELS (course 200029) NOTE: DOES NOT FULFILL ANY OF THE FOUR ENGLISH CREDITS REQUIRED FOR GRADUATION. Readings, discussions, and writings on selected novelists such as Hawthorne, Twain, and Melville. Students read, discuss, and compose writing relating to both teacher-assigned and self-selected novels.

Grade level: 9-12

Prerequisite: None

Credit: 1

MATHEMATICS

Students successfully completing both Algebra IA and Algebra IB earn two math credits and meet the Algebra I requirement for graduation.

ALGEBRA IA (course 210008) is the first of a two year Algebra I course sequence. This course provides a thorough development of the theory, skills, and problem solving techniques essential as a foundation for all further study of mathematics. The real number system, reasoning with equations and inequalities, interpreting functions, reasoning with functions and inequalities, use of linear, quadratic, and exponential models, statistics and probability are areas of Algebra I studied in this course. Emphasis is given to solving equations and graphing functions. The use of scientific and graphing calculators is encouraged when appropriate. **Students taking Algebra IA must also take Algebra IB in the same academic school year.*

Grade level: 9

Prerequisites: 8th Grade Math

Credit: 1

ALGEBRA IB (course 210009) is the second of a two year Algebra I course. This course continues the theory, skills, and problem solving techniques of Algebra IA. Mastery of these skills is essential for all further study of mathematics. The real number system, seeing structure in expressions, arithmetic with polynomials and rational expressions, creating equations, reasoning with functions and inequalities, building functions, use of linear, quadratic, and exponential models, are areas of Algebra I studied in this course. The use of scientific and graphing calculators is encouraged when appropriate. Students will take the state provided end of course test.

Grade level: 9 or 10

Prerequisites: Algebra IA

Credit: 1

ALGEBRA I (course 210005) builds on foundational mathematics content learned by students in Grades K-8 by expanding mathematical understanding to provide students with a strong mathematics education. Content in the real number system, reasoning with equations and inequalities, seeing structure in expressions, building and interpreting functions, arithmetic with polynomials and rational expressions, creating equations, use of linear, quadratic, and exponential models, statistics and probability includes the use of reasoning and problem-solving skills, which may be applied to life situations beyond the classroom setting. This course serves as the cornerstone for all high school mathematics courses; therefore, all subsequent mathematics courses require student mastery of the Algebra I content standards. Students will take the state provided end of course test.

Grade level: 9

Prerequisites: 8th grade math and parental approval

Credit: 1

GEOMETRY (course 210010) builds on Algebra I concepts and increases students' knowledge of shapes and their properties through geometry-based applications, many of which are observable in aspects of everyday life. This knowledge helps develop visual and spatial sense and strong reasoning skills. The Geometry course requires students to make conjectures and to use reasoning to validate or negate these conjectures. The use of proofs and constructions is a valuable tool that enhances reasoning skills and enables students to better understand more complex mathematical concepts. Technology should be used to enhance students' mathematical experience, not replace their reasoning abilities. Because of its importance, this Euclidean geometry course is required of all students receiving an Alabama High School Diploma. Students will take the state provided end of course test.

Grade level: 9, 10, 11

Prerequisites: Algebra IA and Algebra IB or Algebra I

Credit: 1

HONORS GEOMETRY (course 210011) builds on Algebra I concepts and increases students' knowledge of shapes and their properties through geometry-based applications, many of which are observable in aspects of everyday life. This knowledge helps develop visual and spatial sense and strong reasoning skills. The Geometry course requires students to make conjectures and to use reasoning to validate or negate these conjectures. The use of proofs and constructions is a valuable tool that enhances reasoning skills and enables students to better understand more complex mathematical concepts. Technology should be used to enhance students' mathematical experience, not replace their reasoning abilities. Because of its importance, this Euclidean geometry course satisfies a requirement of all students receiving an Alabama High School Diploma and prepares students for Algebra II with Trigonometry. Students will take the state provided end of course test.
Grade level: 10
Prerequisites: Algebra I
Credit: 1

ALGEBRAIC CONNECTIONS (course 210015) is a course designed for students who wish to increase their mathematical knowledge and skills prior to enrollment in the Algebra II course or the Algebra II with Trigonometry course. Algebraic Connections expands upon the concepts of Algebra I and Geometry, with an emphasis on applying functions to make predictions and to calculate outcomes.
Grade level: 11-12
Prerequisites: Algebra I and Geometry
Credit: 1

ALGEBRA II (course 210016) extends the concepts and skills of Algebra I in solving problems using a variety of methods that promote the development of improved communication skills and foster a deeper understanding of mathematics. Application-based problems and the appropriate technology are incorporated for numerical and graphical investigations. Algebra II does not meet the graduation requirements for the Alabama High School Diploma with Advanced Academic Endorsement. Students will take the state provided end of course test.
Grade level: 12
Prerequisites: 3 math credits; Algebra IA, Algebra IB and Geometry or Algebra I, Geometry, Algebra w/ Finance, and/or Algebraic Connections
Credit: 1

ALGEBRA WITH FINANCE (course 210036) is a college and career preparatory course that integrates algebra, pre-calculus, probability and statistics, calculus and geometry to solve financial problems that occur in everyday life. Real-world problems in investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting and planning for retirement are solved by applying the relevant mathematics that are taught at a higher level.
Grade level: 11-12
Prerequisites: Algebra I, Geometry
Credit: 1

ALGEBRA II WITH TRIGONOMETRY (course 210017) extends the concepts and skills of Algebra I with additional algebraic and trigonometric content. Mastery of the content standards of this course is necessary for success in higher-level mathematics. The use of appropriate technology is encouraged for numerical and graphical investigations that enhance analytical comprehension. Algebra II with Trigonometry is required for the Alabama High School Diploma with Advanced Academic Endorsement. If a student chooses to take the Algebraic Connections course, it must be taken prior to the Algebra II with Trigonometry course. Students will take the state provided end of course test.
Grade level: 11, 12
Prerequisites: Algebra I, Geometry or Algebra I, Honors Geometry, and Algebraic Connections, parental approval
Credit: 1

MATHEMATICAL INVESTIGATIONS (course 210019) is intended to extend students' knowledge of mathematical development. Beginning with ancient numeration systems, students explore relationships between mathematics and nature, music, art, and architecture as well as the contributions of well-known mathematicians. The course extends the scope of prerequisite courses, integrating topics with an emphasis on application-based problem solving.

Grade level: 12

Prerequisites: Algebra I, Geometry, and Algebra II with Trigonometry, and/or parental approval

Credit: 1

PRE-CALCULUS (course 210020) is considered to be a prerequisite for success in calculus and college mathematics. Algebraic, graphical, numerical, and verbal analyses are incorporated during investigations of the Pre-calculus content standards. Parametric equations, polar relations, vector operations, conic sections, and limits are introduced along with an expanded study of polynomial and rational functions, trigonometric functions, and logarithmic and exponential functions using appropriate technology.

Grade level: 12

Prerequisites: Algebra I, Geometry, and Algebra II with Trigonometry, and/or parental approval

Credit: 1

PRECALCULUS ALGEBRA (MATH 112) – DUAL ENROLLMENT (course 907601)

This course emphasizes the algebra of functions - including polynomial, rational, exponential, and logarithmic functions. The course also covers systems of equations and inequalities, quadratic inequalities, and the binomial theorem. Additional topics may include matrices, Cramer's Rule, and mathematical induction.

Grade level 11-12

Prerequisite: high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score. An alternative to this is that the student should successfully pass with C or higher (S if taken as pass/fail) Intermediate College Algebra.

Credit: 1

PRECALCULUS WITH TRIGONOMETRY (MATH 113) – DUAL ENROLLMENT

(course 907602) This course includes the study of trigonometric (circular functions) and inverse trigonometric functions, and includes extensive work with trigonometric identities and trigonometric equations. The course also covers vectors, complex numbers, DeMoivre's Theorem, and polar coordinates. Additional topics may include conic sections, sequences, and using matrices to solve linear systems.

Grade level: 11-12

Prerequisite: high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score is required. An alternative to this is that the student should successfully pass with a C or higher (S if taken as pass/fail) MTH 112.

Credit: 1

ADVANCED PLACEMENT (AP) STATISTICS (course 210027) College-level advanced course approved by the College Board Advanced Placement (AP) Program for statistics; introductory, non-calculus based course to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusion from data. This course is taught through ACCESS Distance Learning. If a minimum number of students are enrolled, a certified math teacher will facilitate the class.

Grade level: 12

Prerequisite: Algebra II with Trigonometry and/or Pre-Calculus.

Credit: 1, college credit may also be obtained based on AP test score

SOCIAL STUDIES

WORLD HISTORY 1500 to PRESENT (course 230013) Students survey world history from 1500 to the present. It focuses on the developments and changes in the European, Asian, African, and American civilizations and ways in which interactions of these cultures have influenced the formations of the world.

Grade level: 9

Prerequisite: None

Credit : 1

HONORS WORLD HISTORY 1500 TO PRESENT (course 230014) Through historical inquiry, students gain an understanding and appreciation of history as a story of people much like themselves and become increasingly able to understand global interdependence and connections among world societies. Critical thinking and analysis are the basis for the upper level work in this course.

Grade level: 9

Prerequisite- None

Credit: 1

UNITED STATES HISTORY TO 1877 (course 230016) is a required course offering a comprehensive study of U.S. History from pre-discovery to the Industrial Age. Emphasis is placed on Native American civilizations, European exploration, colonialism, westward expansion, the Civil War, and the rise of industrialism.

Grade level: 10

Prerequisite: World History and Geography since 1500

Credit: 1

HONORS UNITED STATES HISTORY TO 1877 (course 230017) Students begin with the earliest discoveries on the North American continent and follow a chronological study of the major events, issues, movements, leaders, and groups of people of the United States through Reconstruction from a national and an Alabama perspective. Critical thinking and analysis are the basis for the upper level work in this course.

Grade level: 10

Prerequisite: World History, Honors World History, and/or parental approval

Credit: 1

UNITED STATES HISTORY FROM 1877 TO PRESENT (course 230019) continues the study of United States History from the tenth grade course. The eleventh grade course focuses on the impact of twentieth and twenty-first century events in America. Students will take the state provided end of course test.

Grade level: 11

Prerequisite: 10th grade United States History

Credit: 1

HONORS UNITED STATES HISTORY FROM 1877 TO PRESENT (course 230020) beginning with the post-Reconstruction United States and its shift into a more industrialized society, the course continues through the twentieth century to the present. With skills developed in abstract thinking, students compare, analyze, and explain events and developments rather than simply list or identify them. Students will take the state provided end of course test.

Grade level: 11

Prerequisite: World History, Honors World History, US History to 1877, Honors US History to 1877, and/or parental approval

Credit: 1

ADVANCED PLACEMENT UNITED STATES HISTORY (course 230022) is the equivalent to an introductory college course in U.S. history. Studies cover a range of topics from Pre-Columbian Societies to present day. This course is taught through ACCESS Distance Learning. Students will be responsible for the cost of the textbook for this course as well as the cost of the AP Exam. If a minimum number of students are enrolled, a certified history/social science teacher will facilitate the class.

Grade level: 11

Prerequisite: World History, Honors World History, US History to 1877, Honors US History to 1877, and/or parental approval

Credit: 1, college credit may also be obtained based on AP test score

UNITED STATES GOVERNMENT (course 230041) is required for all seniors. Students will study the development of our system of government and the principles that bind us together in the United States. Emphasis is placed on Congress, the courts, and the Presidency, campaigns and elections, and the landmark Supreme Court decisions that have shaped our country

Grade level: 12

Prerequisite: N/A

Credit: 0.5

HONORS UNITED STATES GOVERNMENT (course 230042) advanced work in the government's origins, functions, and branches of U. S. government; representative democracy; federalism; political/civic life; analysis of Constitution, Bill of Rights, and other relevant documents; foreign policy.

Grade level: 12

Prerequisite: N/A

Credit: 0.5

ECONOMICS (course 230051) is a required course for all seniors. Emphasis is placed on the basic economic principles of our economy, functions of government within the economy, and the role of America in the world economy. Students will also be exposed to the aspects of personal finance such as saving, investing, establishing credit and becoming an informed consumer.

Grade level: 12

Prerequisite: N/A

Credit: 0.5

HONORS ECONOMICS (course 230052) basic elements of economics; comparative economic systems and economic theories; role of the consumer; business and labor issues; functions government; structure of U. S. banking system; role of Federal Reserve bank.

Grade level: 12

Prerequisite: N/A

Credit: 0.5

HISTORY ELECTIVE /HISTORY THROUGH FILM (course 230032) NOTE: DOES NOT FULFILL ANY OF THE FOUR SOCIAL STUDIES CREDITS REQUIRED FOR GRADUATION. In History through film class students will watch different historical films from all different points of history. Students will watch the film, then take a test and have a class discussion on each film. Most of the films that are shown are based on true stories. We will watch films from WWI, WWII, Civil War, Vietnam War, Revolutionary War, French and Indian War, War in Iraq, and other historical wars. We also watch films based on events or people such as the Civil Rights Movement, Cold War, and other true events of American history.

Grade level: 10-12

Prerequisite: N/A

Credit: 1

PSYCHOLOGY (course 230071) NOTE: DOES NOT FULFILL ANY OF THE FOUR SOCIAL STUDIES CREDITS REQUIRED FOR GRADUATION. History of psychological inquiry; methods of scientific research; human development; sensation and perception; motivation and emotion; states of consciousness; social psychology, cognition; intelligence and assessment; personality theories; stress; mental disorders and treatments
Grade level: 10-12
Prerequisite: N/A
Credit: 1

ADVANCED PLACEMENT (AP) PSYCHOLOGY (course 230072) NOTE: DOES NOT FULFILL ANY OF THE FOUR SOCIAL STUDIES CREDITS REQUIRED FOR GRADUATION. College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for psychology This course is taught through ACCESS Distance Learning. Students will be responsible for the cost of the textbook for this course as well as the cost of the AP Exam. If a minimum number of students are enrolled, a certified history/social science teacher will facilitate the class.
Grade level: 11-12
Prerequisite: World History/Honors World History and US History to 1877/ Honors US History to 1877 and/or parental approval
Credit: 1, college credit may also be obtained based on AP test score

SCIENCE

BIOLOGY (course 220011) is designed to provide students with a fundamental understanding of life sciences. It includes inquiry-based experiences and lab activities. This course covers all standards from the 2015 Science Alabama Course of Study. Topics covered in this course include disciplinary core ideas such as from molecules to organisms: structures and processes; ecosystems: interactions, energy, and dynamics; heredity: inheritance and variation of traits; and unity and diversity.

Grade level: 9

Lab Fee: \$20.00

Prerequisite: 8th Grade Science

Credit: 1

HONORS BIOLOGY (course 220012) is designed to provide a deeper understanding of life sciences as well as to promote scientific reasoning and inquiry skills. It includes inquiry-based experiences and lab activities. This course covers all standards from the 2015 Science Alabama Course of Study. Topics covered in this course include disciplinary core ideas such as from molecules to organisms: structures and processes; ecosystems: interactions, energy, and dynamics; heredity: inheritance and variation of traits; and unity and diversity.

Grade level: 9

Lab Fee: \$20.00

Prerequisite: 8th Grade Science and/or parental approval

Credit: 1

PHYSICAL SCIENCE (course 220051) is an introduction to chemistry and physics. The chemistry portion emphasizes matter, elements, compounds and mixtures, bonding and chemical reactions. The physics portion emphasizes mechanics, heat, energy, light, electricity and magnetism.

Grade level: 10-12

Lab Fee: \$20.00

Prerequisite: Biology

Credit: 1

CHEMISTRY (course 220061) focuses on the general aspects of chemistry, including the atomic theory and its history of development; the kinetic theory of solids, liquids, and gases; the periodic table and periodicity; acids, bases, and the concept of pH; stoichiometry; solutions; naming compounds; writing, balancing and predicting reactions; electron configurations; and use of scientific data. It is recommended that College-bound students take this course for a background in chemistry. This course meets the science requirement for Advanced Diploma.

Grade level: 10-12

Lab Fee: \$20.00

Prerequisite: Biology and Algebra I or teacher's recommendation (It is recommended that students have a "B" average or better in Algebra I and a science teacher recommendation.)

Credit: 1

EARTH AND SPACE SCIENCE (course 220081) introduces students to an advanced study of Earth and perspectives of the universe from the Earth as well as future challenges and technologies required for space exploration. Weather and other geological forces and their effect on climatic conditions on Earth will be examined. This course does not meet the science requirement for Advanced Diploma.

Grade level: 11-12

Lab Fee: \$20.00

Prerequisite: Physical Science

Credit: 1

ENVIRONMENTAL SCIENCE (course 220029) is designed to provide the students with a balanced approach to the study of the environment. An emphasis is placed on the ecosystems and the development of thinking and decision-making skills related to environmental issues. This course does not meet the science requirement for Advanced Diploma.

Grade level: 11-12

Lab Fee: \$20.00

Prerequisite: Biology

Credit: 1 (see also Environmental Management, course 420026)

PLANT BIOTECHNOLOGY (course 420053) provides students with an opportunity to develop an understanding of plant genetics and biotechnology relative to agriculture-related products and services. Emphasis is placed on cellular biology, applied genetics and biotechnology concepts, and social and environmental impacts of biotechnology. **This course is offered as a 3rd or 4th science offering but has not currently been NCAA approved.*

Grade level: 10-12

Lab Fee: \$20.00

Prerequisite: Foundations of Agriscience

Credit 1 Career Tech (can count as a science elective)

FORENSIC AND CRIMINAL INVESTIGATIONS (410025) A one-credit course that focuses on the history of forensic science, criminal investigation, forensic serology and DNA, forensic studies in anthropology, toxicology, fingerprinting, firearms, physics, and document examination. This course meets the science requirement for Advanced Diploma.

Grade level: 10-12

Lab Fee: \$20.00

Prerequisite: Chemistry and Algebra I

Credit 1 Career Tech (can count as a science elective)

HUMAN ANATOMY AND PHYSIOLOGY (course 220026) is designed for students who are interested in pursuing biomedical, nursing, and other science-based careers. It is organized to follow a logical sequence of the ten systems of the human body with emphasis on diseases and disorders. Students are introduced to a wide range of careers. This course meets the science requirement for Advanced Diploma.

Grade level: 11-12

Lab Fee: \$20.00

Prerequisite: Biology

Credit: 1

PHYSICS (course 220071) is concerned with mechanics, heat, light and optics, sound, electricity, and magnetism. Students will develop problem-solving skills to apply these topics to the world around them. Emphasis is placed on performing labs and writing laboratory reports. This course meets the science requirement for Advanced Diploma.

Grade level: 11-12

Lab Fee: \$20.00

Prerequisite: Biology, Algebra II, Algebra II w/Trig, and teacher approval

Credit: 1

ADVANCED PLACEMENT (AP) BIOLOGY (course 220014)

NOTE: BIOLOGY COURSES 220011 and 220012 ARE DEVELOPED FROM THE BIOLOGY CORE. THESE THREE COURSES ARE THE ONLY SCIENCE COURSES THAT FULFILL THE "BIOLOGY" GRADUATION REQUIREMENT.

College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for biology; scientific process and application skills; molecules; cells; heredity; evolution; organisms; populations. This course is taught through ACCESS Distance Learning. Students will be responsible for the cost of the textbook for this course as well as the cost of the AP Exam. If a minimum number of students are enrolled, a certified science teacher will facilitate the class.

Grade level: 11 - 12

Prerequisite: Honors Biology and Chemistry

Credit: 1, college credit may also be obtained based on AP test score

FOREIGN LANGUAGE

The Foreign Language Department recommends that the first and second courses of foreign language be taken in consecutive years.

SPANISH 1 (course 270153) introduces the student to the language and culture of Spanish-speaking countries. Basic skills in listening, speaking, reading and writing are stressed through a gradual immersion of students in simple vocabulary and grammar used in daily conversations. A textbook, workbook, CD's, video clips, magazines, websites, and films are used to support basic language acquisition and foster cultural understanding. This course may be taught through ACCESS Distance Learning.

Grade level: 9-12

Fee: \$15.00

Prerequisite: Grade level English and parental approval. An average of a C or above in English recommended.
Credit: 1

SPANISH 2 (course 270154) is a continuation and reinforcement of Spanish vocabulary and grammar with a focus on the development of a novice mid-to-high level of proficiency in speaking, reading and writing. A textbook, workbook, CD's, magazines, websites, video clips, and films are used to foster language proficiency, cross-curriculum connections and cross-cultural comparisons. This course may be taught through ACCESS Distance Learning.

Grade level: 10-12

Fee: \$15.00

Prerequisite: Spanish I and teacher approval

Credit: 1

SPANISH 3 (course 270155) is an intensive study of Spanish grammar with an emphasis on writing and conversation skills in the classroom. Through the use of authentic texts and scholarly resources, students will expand their learning about the geography, history, and culture of Spain and Latin America. This course may be taught through ACCESS Distance Learning.

Grade level: 11-12

Fee: \$15.00

Prerequisite: Spanish II and teacher approval

Credit: 1

FRENCH 1 (course 270023) is a study of the basic grammar and vocabulary of the French language. Comprehension and proper pronunciation are emphasized. Each lesson includes oral drills, written practice, and reading exercises. French geography, history, and art are also explored. This course will be taught through ACCESS Distance Learning.

Grade level: 9-12

Fee: \$15.00

Prerequisite: Grade level English and parental approval

Credit: 1

FRENCH 2 (course 270024) is a continuation of the study of grammar and vocabulary. A major emphasis is placed on the oral use of the language in everyday situations, which gives the student opportunities to become proficient and confident. French literature is also studied. This course will be taught through ACCESS Distance Learning.

Grade level: 10-12

Fee: \$15.00

Prerequisite: French I

Credit: 1

FRENCH 3 (course 270025) is a study of French in intensive grammar and emphasizes the use and importance of conversational skills. This course will be taught through ACCESS Distance Learning.

Grade level: 11-12

Fee: \$15.00

Prerequisite: French 2

Credit: 1

LATIN 1 (course 270111) is a first- year classical language course, which provides an introduction to the Latin language and Roman culture. Latin I illustrates the influence of the Roman culture on the cultures of the Western world throughout history. Basic pronunciation, spelling, and translation are included in the course; emphasis is placed on reading, grammar, and culture. This course will be taught through ACCESS Distance Learning.

Grade level: 9-12

Prerequisite: Grade level English and parental approval

Credit: 1

LATIN 2 (course 270112) is a second-year classical language course, which includes a review of the skills previously studied, often accomplished by using Roman literature, Roman history, Roman mythology, and a study of Caesar's *Commentaries*. This course will be taught through ACCESS Distance Learning.

Grade level: 10-12

Prerequisite: Latin I

Credit: 1

ARTS EDUCATION

VISUAL ARTS

VISUAL ARTS, INTRODUCTION TO VISUAL ARTS I (course 286100) teaches basic design concepts, drawing, color theory, and the elements and principles of art through creative projects and the study of art history.

Grade level: 9-12

Fee: \$30.00

Prerequisite: None

Credit: 1

VISUAL ARTS, VISUAL ARTS II (course 286200) builds on the knowledge and skills acquired in Introduction to Introduction to Visual Art I. Drawing and painting lessons, artist studies, and creative projects enrich student's knowledge of design concepts and art history.

Grade level: 10-12

Fee: \$30.00

Prerequisite: Introduction to Visual Art I and teacher recommendation.

Credit: 1

VISUAL ARTS, VISUAL ARTS III (course 286300) continues to develop technical skills in drawing, painting, and printmaking and introduces 3-dimensional design. Creative problem solving, development of aesthetic sensibility, design principles, and art history are stressed.

Grade level: 10-12

Fee: \$30.00

Prerequisite: Visual Arts II and teacher recommendation.

Credit: 1

VISUAL ARTS, VISUAL ARTS IV (course 286400) refines technical skills in drawing, painting, printmaking, and 2- and 3-dimensional design. Independent projects, creative problem solving, development of sensibility, design principles, and art history are stressed.

Grade level: 10-12

Fee: \$30.00

Prerequisite: Visual Arts III and teacher recommendation.

Credit: 1

VISUAL ARTS, CERAMICS II (course 286207) this intermediate level course is first of a sequential high school course focusing on the medium of ceramics. Creating, presenting, responding and connecting drive critical thinking, meaning, reflection, production and assessment to understand how ceramics communicates ideas and allows for self-expression. Through exploration and experimentation, this course provides students with a more in depth foundation in the ceramic studio processes, art criticism, aesthetics, and art history. Students will respond to personal experiences and express ideas using a variety of traditional and contemporary ceramic process, while effectively applying the elements of art and principles of design. Safe practices and proper use of tools, equipment and materials are emphasized.

Grade level: 10-12

Fee: \$30.00

Prerequisite: Introduction to Visual Art I and teacher recommendation.

Credit: 1

VISUAL ARTS, Drawing II (course 286210) This intermediate level course is first of a sequential high school course focusing on the medium of drawing. Creating, presenting, responding and connecting drive critical thinking, meaning, reflection, production and assessment to understand how drawing communicates ideas and allows for self-expression. Through exploration and experimentation, this course provides students with a more formal foundation in the drawing studio processes, art criticism, aesthetics, and art history. Students will respond to personal experiences and express ideas using a variety of traditional and contemporary drawing process, while effectively applying the elements of art and principles of design. Safe practices and proper use of tools, equipment and materials are emphasized.

Grade level: 10-12

Fee: \$30.00

Prerequisite: Introduction to Visual Art I and teacher recommendation.

Credit: 1

ADVANCED PLACEMENT ART HISTORY (course 280101) provides students with an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students will examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. Students are encouraged to take the College Board AP Art History Exam to receive college credit. Students will be responsible for the cost of the AP Exam.

Prerequisite: Success in other humanities, such as history and literature, or in any of the studio arts and teacher recommendation.

Credit: 1

Fee: \$30.00

MARCHING BAND/CONCERT BAND

MARCHING BAND I/TRADITIONAL AND EMERGING ENSEMBLES:

INTRODUCTION TO MARCHING BAND I (course 283102) .

All band students must meet the approval of the band director before being admitted to this class. Students are strongly recommended to have had prior musical experience on their instruments. Students must be willing and able to perform strenuous physical activity. Attendance at all rehearsals and performances is required. This course requires some extended hour school days. **FIRST YEAR OF MARCHING BAND.** This course is offered only in the fall.

Grade Level: 9-12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

MARCHING BAND II/TRADITIONAL AND EMERGING ENSEMBLES:

INTRODUCTION TO MARCHING BAND II (course 283202)

All band students must meet the approval of the band director before being admitted to this class. Students are strongly recommended to have had prior musical experience on their instruments. Students must be willing and able to perform strenuous physical activity. Attendance at all rehearsals and performances is required. This course requires some extended hour school days and will be offered only in the fall. **SECOND YEAR OF MARCHING BAND.**

Grade Level: 10-12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

**MARCHING BAND III/TRADITIONAL AND EMERGING ENSEMBLES:
INTRODUCTION TO MARCHING BAND III (course 283302)**

All band students must meet the approval of the band director before being admitted to this class. Students are strongly recommended to have had prior musical experience on their instruments. Students must be willing and able to perform strenuous physical activity. Attendance at all rehearsals and performances is required. This course requires some extended hour school days and will be offered only in the fall. THIRD YEAR OF MARCHING BAND.

Grade Level: 11-12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

**MARCHING BAND IV/TRADITIONAL AND EMERGING ENSEMBLES:
INTRODUCTION TO MARCHING BAND II IV (course 283402)**

All band students must meet the approval of the band director before being admitted to this class. Students are strongly recommended to have had prior musical experience on their instruments. Students must be willing and able to perform strenuous physical activity. Attendance at all rehearsals and performances is required. This course requires some extended hour school days and will be offered only in the fall. FOURTH YEAR OF MARCHING BAND.

Grade Level: 12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

**CONCERT BAND I/TRADITIONAL AND EMERGING ENSEMBLES:
INTRODUCTION TO CONCERT BAND I (course 283100)**

All concert band students must meet the approval of the band director before being admitted to this class. Students are strongly recommended to have had prior musical experience on their instruments. Students must be willing and able to perform strenuous physical activity. Attendance at all rehearsals and performances is required. This course requires some extended hour school days and will be offered only in the spring. FIRST YEAR OF CONCERT BAND.

Grade Level: 9-12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

**CONCERT BAND II/TRADITIONAL AND EMERGING ENSEMBLES:
INTRODUCTION TO CONCERT BAND II (course 283200)**

All concert band students must meet the approval of the band director before being admitted to this class. Students are strongly recommended to have had prior musical experience on their instruments. Students must be willing and able to perform strenuous physical activity. Attendance at all rehearsals and performances is required. This course requires some extended hour school days and will be offered only in the spring. SECOND YEAR OF CONCERT BAND.

Grade Level: 9-12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

**CONCERT BAND III/TRADITIONAL AND EMERGING ENSEMBLES:
INTRODUCTION TO CONCERT BAND III (course 283300)**

All concert band students must meet the approval of the band director before being admitted to this class. Students are strongly recommended to have had prior musical experience on their instruments. Students must be willing and able to perform strenuous physical activity. Attendance at all rehearsals and performances is required. This course requires some extended hour school days and will be offered only in the spring. THIRD YEAR OF CONCERT BAND.

Grade Level: 9-12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

**CONCERT BAND IV/TRADITIONAL AND EMERGING ENSEMBLES:
INTRODUCTION TO CONCERT BAND IV (course 283400)**

All concert band students must meet the approval of the band director before being admitted to this class. Students are strongly recommended to have had prior musical experience on their instruments. Students must be willing and able to perform strenuous physical activity. Attendance at all rehearsals and performances is required. This course requires some extended hour school days and will be offered only in the spring.

FOURTH YEAR OF CONCERT BAND.

Grade Level: 9-12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

**JAZZ BAND I/ TRADITIONAL AND EMERGING ENSEMBLES: INTRODUCTION TO
JAZZ ENSEMBLES I (course 283104)**

All jazz band students must meet the approval of the band director before being admitted to this class. Students are strongly recommended to have had prior musical experience on their instruments. Students must be willing and able to perform strenuous physical activity. Attendance at all rehearsals and performances is required. This course requires some extended hour school days and will be offered only in the spring.

FIRST YEAR OF JAZZ BAND

Grade Level: 9-12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

CHORUS

**CHORUS I/TRADITIONAL AND EMERGING ENSEMBLES: INTRODUCTION TO
MIXED CHORUS I (course 283600)**

provides opportunities for growth in the understanding of musical elements (rhythm, melody, form, harmony, dynamics, expressive elements, tone color or timbre, articulation, and style) as applied to the music performed. Students will learn to enjoy participating in vocal music, work cooperatively with other students in the musical organization and serve the school by participating in performances. May repeat for credit. Attendance at all scheduled performances is required. This course requires some extended hour school days. First Year of Chorus.

Grade level: 9-12

Fee: \$30.00

Prerequisite: Director Approval

Uniform Rental: \$ 10.00

Credit: 1

CHORUS II (Course 283700)

CHORUS III (Course 283800)

CHORUS IV (Course 283900)

SHOW CHIOR/MUSICAL THEATRE (Course 280075) Performance oriented; the study of musical theatre history, styles, performance, and technical production; focuses on acting; directing; movement and mime; design; scriptwriting; singing; criticism; aesthetics

Grade level: 9-12

Fee: \$20.00

Prerequisite: Director Approval

Uniform Rental: \$ 10.00

Credit: 1

**CHAMBER CHORUS I/TRADITIONAL AND EMERGING ENSEMBLES:
INTRODUCTION TO CHAMBER CHORUS I (course 283604)**

This is a performance based class of experienced students with a higher level than basics. Students will learn to enjoy participating in vocal music, work cooperatively with other students in the musical organization and serve the school by participating in performances. May repeat for credit. Attendance at all scheduled performances is required. This course requires some extended hour school days.

Grade level: 9-12

Prerequisite: Audition and Director Approval

Credit: 1

Fee: \$30.00

Uniform Rental: \$ 10.00

PHYSICAL EDUCATION AND HEALTH

The guidance department strongly recommends that students schedule L.I.F.E. (health related fitness) in the 9th grade.

L.I.F.E.: HEALTH RELATED FITNESS

The focus of **Lifelong Individualized Fitness Education (L.I.F.E.) (course 240002)** is health enhancing physical activity. LIFE provides a blueprint for a lifetime of healthy living. Through the LIFE course, students learn to apply the various aspects of fitness and assess their own fitness levels. Students are required to develop and maintain an individual level of fitness that forms the groundwork for a healthy future. Learning how to make physical activity a part of life beyond high school is the main objective. LIFE capitalizes on high school students' increased ability to accept responsibility for their own actions as students begin to realize the need for setting long-range fitness goals for the future.

Grade level: 9-12

Prerequisite: None

Credit: 1

Team Course Numbers

240016 Team Sports

240017 Varsity Baseball I

240018 Varsity Baseball II

240019 Varsity Baseball III

240020 Varsity Baseball IV

240021 Varsity Basketball I

240022 Varsity Basketball II

240023 Varsity Basketball III

240024 Varsity Basketball IV

240025 Varsity Cheerleading I

240026 Varsity Cheerleading II

240027 Varsity Cheerleading III

240028 Varsity Cheerleading IV

240033 Varsity Football I

240034 Varsity Football II

240035 Varsity Football III

240036 Varsity Football IV

240037 Varsity Golf I

240038 Varsity Golf II

240039 Varsity Golf III
240040 Varsity Golf IV
240045 Varsity Softball I
240046 Varsity Softball II
240047 Varsity Softball III
240048 Varsity Softball IV
240053 Varsity Tennis I
240054 Varsity Tennis II
240055 Varsity Tennis III
240056 Varsity Tennis IV
240061 Varsity Volleyball I
240062 Varsity Volleyball II
240063 Varsity Volleyball III
240064 Varsity Volleyball IV

HEALTH (course 250002) a state requirement for graduation from high school, is composed of several health content areas. Students are exposed to general information concerning good health practices so that they may make educated lifestyle decisions. Content areas covered are mental health, substance abuse, first aid, personal health, family health, disease prevention and nutrition.

Grade level: 10-12

Prerequisite: None

Credit: 0.5

Special Electives

DRIVER AND TRAFFIC SAFETY EDUCATION (course 290001)/HEALTH (course 250002): (both numbers should be listed as requests) consists of classroom instruction from a driving text and driving instruction in a car with the teacher. Due to the nature of the Driver's Education course, it is best if the student is 15 or older at the beginning of the school year. In order to complete the driving requirement for the course, a student must have a driver's permit and at least a grade of "60" for the classroom instruction. **(A student seeking a driver's permit must take a completed school enrollment form, available in the school office, to the Alabama State Troopers office.** In order to take the test with the Alabama State Troopers office, a student must present the enrollment form.) Beginning Fall, 2007, students that receive a passing grade for the classroom portion of the Driver Education class will have the option of taking the Alabama License Road Test under the supervision of the Driver Education Instructor instead of taking the test at the Department of Motor Vehicles.

Grade level: 10-12

Drivers' Ed Fee: \$20.00

Prerequisite: None

Credit: 0.5

COLLEGE PREP ENRICHMENT COURSE (course 802200) is designed to improve student competence in areas tested on standardized college entrance examinations. College bound students who have completed and are currently enrolled in Algebra II or Algebra II with Trig and Chemistry will benefit most from participation in test preparation activities. Students will explore careers, prepare resumes, and research scholarship programs in addition to preparing for the ACT test.

Required materials: Smart Words (vocabulary workbook) and The Real ACT Prep Guide.

Grade level: 11 (Priority for 11th graders, 10th graders admitted with availability and teacher approval)

Prerequisite: A minimum of a "C" in all core classes and/or teacher approval of enrollment. Students must have taken the ACT at least once.

Fee: \$20.00

Credit: 1

DESHLER HIGH SCHOOL

CAREER AND TECHNICAL EDUCATION

CURRICULUM

The goal of Deshler's Career and Technical Education curriculum is to provide students access to a flexible system of rigorous school and work-based learning planned collaboratively by students, parents, educators, and employers. Deshler's Career and Technical Education curriculum keeps pace with the rapid changes in business and industry by offering students high caliber learning experiences that are in a continuous process of review and improvement. Deshler's Career and Technical Education curriculum continually readdresses student learning by individualizing instruction with emphasis on customized learning rather than generic "one-size-fits all" instruction. Deshler's Career and Technical Education curriculum provides for implementation of new measures and methods for assessing and certifying what students know and are able to do. This curriculum includes additional performance and outcome-based measurements that address acquisition of individual knowledge and skills.

AGRISCIENCE

Agriscience offers students a rigorous program of studies that prepares them for rewarding careers in agriscience disciplines.

AGRISCIENCE (course 420009) provides students with a general overview of the Agriculture, Food and Natural Resources Cluster and pathways. Students enrolled in this course are eligible for membership in Future Farmers of America.

Grade level: 10-12

Fee: \$20.00

Prerequisite: None

Credential: None

Credit 1

ENVIRONMENTAL MANAGEMENT (course 420026) provides students with an in-depth study of environmental management principles and practices including natural resources, ecology, waste management, water and air quality, pesticide management and use, and energy conservation.

Grade level: 10-12

Fee: \$20.00

Prerequisite: None

Credential: None

Credit 1

LANDSCAPE DESIGN AND MANAGEMENT (course 420057) The Landscape Design and Management course allows students to become more knowledgeable about and appreciative of landscape design and management. Topics include career opportunities, safety, landscape design, plant selection, landscape growth and the environment, landscape establishment and management, interior landscaping and xeriscaping, landscape business management, and technology. Students enrolled in this course are eligible for membership in Future Farmers of America.

Grade level: 10-12

Fee: \$20.00

Prerequisite: Agriscience

Credential: To Be Determined

Credit 1 Career Tech

PLANT BIOTECHNOLOGY (course 420053) provides students with an opportunity to develop an understanding of plant genetics and biotechnology relative to agriculture-related products and services. Emphasis is placed on cellular biology, applied genetics and biotechnology concepts, and social and environmental impacts of biotechnology. Students enrolled in this course are eligible for membership in Future Farmers of America.

Grade level: 10-12

Fee: \$20.00

Prerequisite: Foundations of Agriscience

Credential: To Be Determined

Credit 1 Career Tech (can count as a science elective)

RESIDENTIAL LANDSCAPE ESTABLISHMENT AND MANAGEMENT (course 420059)

Residential Landscape Establishment and Maintenance is a one-credit course that focuses on the residential landscape industry. Topics include career opportunities, safety, plant nutrition, pest management, plant identification, residential landscape design and maintenance, tool and equipment maintenance, residential landscape business management, and technology. Students enrolled in this course are eligible for membership in Future Farmers of America.

Grade level: 10-12

Fee: \$20.00

Prerequisite: Agriscience

Credential: To Be Determined

Credit 1 Career Tech

TURF GRASS MANAGEMENT (course 420056) prepares students for sports turfgrass careers. Emphasis is placed on turfgrass growth, turfgrass management, sports fields, turfgrass tools and equipment, business management, and technology.

Grade level: 10-12

Fee: \$20.00

Prerequisite: Foundations of Agriscience

Credential: To Be Determined

Credit 1 Career Tech

BUSINESS, MANAGEMENT AND ADMINISTRATION CLUSTER

Career Technical Education Curriculum Core is covered in each Business, Management and Administration course taught at Deshler High School as required by the Alabama Course of Study for Career/Technical Education.

CAREER PREPAREDNESS (course 400025) is a required course for graduation for the new diploma that provides content knowledge and skills in the areas of Career Development and Academic Planning; Computer Skill Applications; and Financial Literacy Knowledge. Students enrolled in this course are eligible for membership in Future Business Leaders of America (FBLA).

Grade level: 9-12

Fee: \$20.00 Donation

Prerequisite: None

Credential: Microsoft Office Specialist

Credit: 1

BUSINESS TECHNOLOGY APPLICATIONS (course 450006) is designed to assist students in developing technological proficiencies in word processing, spreadsheets, databases, presentations, communications, Internet use, ethics, and careers using technology applications. Students enrolled in this course are eligible for membership in Future Business Leaders of America (FBLA).

Grade level: 9-12

Fee: \$20.00

Prerequisite: None

Credential: Microsoft Office Specialist

Software: Microsoft Office 2013

Credit: 1

ADVANCED BUSINESS TECHNOLOGY APPLICATIONS (course 450031) provides students with project-based application of concepts learned in Business Technology Applications or Business Essentials and the students earning an A or B average may receive 3 hours of college credit at Northwest Shoals Community College. Students enrolled in this course are eligible for membership in Future Business Leaders of America (FBLA).

Grade level: 9-12

Fee: \$20.00

Prerequisite: Business Technology Applications

Credential: Microsoft Office Specialist

Software: Microsoft Office 2013

Credit: 1

FOUNDATIONS OF BUSINESS LEADERSHIP (course 450009) Students develop an understanding of how academic skills in mathematics, economics, and written and oral communications are integral

components of success in any career. Students examine leadership and management materials to determine impact on business and industry and legal and ethical behavior, determine how resources are managed to achieve company goals, and identify employability and essential skills needed to obtain a career and be successful in the workplace. Students identify principles of business management and analyze business practices to determine ethical and social responsibilities. Students planning to Co-op in 11th or 12th grades are strongly encouraged to take this course. Students will have the opportunity to prepare for Work Keys in this course.

Grades - 11-12

Fee: \$20.00

Prerequisite: Career Preparedness

Credential: Microsoft Office Specialist

Credit: 1

MULTIMEDIA DESIGN (course 410016) A one-credit course designed to provide students with hands-on skills involving graphic design, digital photography, Web publishing, and digital video production. Students use various hardware peripherals and software for completing documents. Students enrolled in this course are eligible for membership in Future Business Leaders of America (FBLA).

Grade level: 10-12

Fee: \$35.00

Prerequisite: Career Preparedness

Credential: Microsoft Office Specialist – PowerPoint & Adobe

Software: Microsoft Office 2013, Audacity, HTML, Moviemaker, Expression Web, Adobe Premiere, Adobe Photoshop, Adobe Illustrator

Credit: 1

MULTIMEDIA PUBLICATIONS (course 410017) is designed to provide students with the ability to utilize digital equipment and multimedia digital imaging software, produce interactive media projects, and develop publication layouts. Students use various hardware peripherals as well as the Internet for integrating skills to create a variety of publications. Students enrolled in this course are eligible for membership in Future Business Leaders of America (FBLA).

Grade level: 10-12

Fee: \$35.00

Prerequisite: Career Preparedness

Credential: Microsoft Office Specialist - PowerPoint

Software: Microsoft Office 2013, Audacity, HTML, Moviemaker, Expression Web, Adobe Premiere, Adobe Photoshop, Adobe Illustrator

Credit: 1

WORKFORCE ESSENTIALS/ROBOTICS (course 400016) Basic concepts and operations; technology problem-solving and decision-making tools; technology research tools; social, ethical and human issues; technology communications tools; technology productivity tools

Grade level: 10-12 Fee: \$35.00

Prerequisite: Information Technology Fundamentals

Credit: 1

YEARBOOK/ANNUAL STAFF/ENTREPRENEURSHIP (course 400017) is a two year course that offers students an opportunity to learn the fundamentals of publishing, including marketing, advertising, layout, design, copy writing, and editing. Students enrolled in this course produce the school's yearbook and the course will be taken two consecutive years.

Grade level: 11-12

Fee: None

Prerequisite: Business Technology Applications or Multimedia Publications/Design, with a "75" average or higher and approval of faculty sponsor

Credit: 1

COOPERATIVE EDUCATION (course 400122) is a required component of the Cooperative Education work-based experience. First credit.

Course 400133 – second credit

Course 400144 – third credit

Course 400212 – fourth credit

Prerequisite: Complete a Cooperative Education Application and turn in to Dr. Melody Murphy. Then an interview will be conducted by Dr. Murphy prior to enrollment in Co-op.

Grade level: 11-12

Requirement: Must have completed Career Prep and at least one course in another Career Tech pathway.

Credit: 1

Fee: \$20.00

GUIDELINES FOR ENROLLMENT IN COOPERATIVE EDUCATION

1. Must have good attendance in school (determined by principal).
2. Must have good behavior and conduct in school and community.
3. Must be 16 years of age by September 1.
4. Must have consent of parent or guardian.
5. Must submit an application to program coordinator.
6. Must have approval of program coordinator.
7. Must provide own transportation.
8. Must have a job or acquire a job at the beginning of the semester. May be a paid or non-paid position.
9. Must be enrolled the entire semester to earn a full credit (half credits are not awarded).
10. Maintain employment throughout the semester.
11. Must provide proof of health insurance.
12. Must provide proof of automobile insurance.
13. Must provide a valid driver's license.

CRITERIA FOR CREDIT IN COOPERATIVE EDUCATION

A. Complete a minimum of 270 work hours

B. Maintain continuous employment throughout the school year/semester (as it applies)

C. Complete a weekly sign-in/check-in with the cooperative education teacher (more if requested)

D. Complete all required forms by the stated deadlines

E. If employment is lost during the semester/year, student must actively seek and document new employment (forms provided by cooperative education teacher). New employment must be gained within a three (3) week time period or credit will not be awarded.

DUAL ENROLLMENT – CAREER TECH

BUSINESS APPLICATIONS OF MICROCOMPUTER SOFTWARE (CIS 125/146) - A study of the application of microcomputer software to the business environment. Included are word processing, data management, presentation, and spreadsheet software programs. This is a partnership with either the University of North Alabama or Northwest Shoals Community College. Students earn college credit for these classes.

FOOD, WELLNESS AND DIETETICS

The Food, Wellness and Dietetics Pathway is for students who are interested in pursuing careers in nutrition, wellness, and health and disease prevention. Courses provide students with knowledge in event planning; photographic styling applications; social media and digital design techniques; developing and adapting food products for marketing and specific nutrition needs; meal planning; food safety; and the scientific investigation of production, processing, preparation, evaluation, and utilization of food.

FAMILY AND CONSUMER SCIENCES- (course 510004) Family and Consumer Sciences is a one-credit course that serves as the foundation course for the Human Services cluster. Course content provides opportunities for students to explore the core content included in the Family Studies and Consumer Sciences; Early

Childhood Development and Services; Fashion; Interior Design; Food, Wellness, and Dietetics; and Consumer Sciences pathways. Major topics are marriage and family life, parenting and care giving, consumer services, apparel, housing, food and nutrition, and technology and careers. Students enrolled in this course are eligible for membership in Family, Career and Community Leaders of America (FCCLA).

Grade level: 9-12

Fee: \$30.00

Credit: 1

Credential: ServSafe

FASHION (course 510041) introduces students to the selection and care of clothing and accessories for individuals and families throughout the life span. A school-based laboratory is required for this course.

Grade level: 10-12

Fee: \$30.00

Prerequisite: FACS

Credential: NPC in Customer Service and Sales

Credit: 1

FOOD AND NUTRITION (course 510011) designed to enable students to explore the relationship between food, nutrition, fitness, and wellness. Students learn how to select and prepare nutritious foods. Students enrolled in this course are eligible for membership in Family, Career and Community Leaders of America (FCCLA).

Grade level: 10-12

Fee: \$30.00

Prerequisite: FACS

Credential: ServSafe

Credit: 1

INFANT AND TODDLER DEVELOPMENT (course 510027) is a one-credit course that includes an in-depth study of infant and toddler development. The course focuses on the knowledge and skills needed for career opportunities in this specialized stage of human development, language development, and cognitive development. The physical care, emotional needs, health and nutritional needs of infants and toddlers are addressed. Instruction based on the latest research and development on how to develop and provide enriching programs and environments for children under three years of age that maximize the development of the whole child is included in the course. Informal and formal observation techniques to observe, record, and interpret the behaviors of infants and toddlers in various settings are addressed in the program. Students enrolled in this course are eligible for membership in Family, Career and Community Leaders of America (FCCLA).

Grade level: 11-12

Fee: \$25.00

Prerequisite: None

Stackable Credential: Adult/Infant CPR

Credit: 1

SPORTS NUTRITION (course 510017) examines the relationship between nutrition, physical performance, and overall wellness. Students will learn how to choose nutritious foods for healthy lifestyles and peak performance. Health and disease prevention through nutrition, physical activity, and wellness practices are essential components of the course. This course emphasizes the metabolic process and management of food choices for optimal health and physical performance. Students are challenged to develop personal fitness and nutrition plans. Career and technical student organizations are integral, co-curricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

Grade level: 10-12

Fee: \$30.00

Prerequisite: FACS

Credential: ServSafe

Credit: 1

HEALTH SCIENCE

The Health Science program provides students with essential knowledge and skills for pursuing a career in health care. The rigorous and challenging content of the Health Science program lends itself to a variety of instructional strategies, including contextual applications, virtual classrooms, and the use of multimedia. Career and technical student organizations (HOSA) are integral, co-curricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities,

expand workplace-readiness skills, and broaden opportunities for personal and professional growth. Students in all courses will have the opportunity to be certified in American Heart Association First Aid and CPR/AED.

FOUNDATIONS OF HEALTH SCIENCE (course 490007) this is a required course in the health science curriculum and a prerequisite to all other courses. This one credit course introduces students to a wide range of health careers. Integrated academics combined with health care knowledge and skills provide the framework for a strong health care delivery system in the twenty-first century. Students enrolled in this course are eligible for membership in Health Occupations Students of America (HOSA).

Grade level: 10-12

Fee: \$10.00

Prerequisite: None

Credit: 1

SPORTS MEDICINE FUNDAMENTALS (course 490028) Sports Medicine introduces students to the sports medicine profession. Course content specifies core knowledge and skills needed by workers in the sports medicine field. Students enrolled in this course are eligible for membership in Health Occupations Students of America (HOSA).

Grade level: 10-12

Fee: \$10.00

Prerequisite: Foundations of Health Science

Credit: 1

HEALTH SCIENCE INTERNSHIP (490014 – 2 credits) is a one or two credit course designed for students in Grades 11 or 12. This course includes a variety of knowledge and skills necessary for becoming a health care worker or for preparing students for postsecondary education programs. Health Science Internship includes clinical experiences in a health care facility. Students enrolled in this course are eligible for membership in Health Occupations Students of America (HOSA).

Grade level: 11-12

Fee: \$10.00

Prerequisite: Foundations of Health Science, Internship Application, Teacher Approval

Insurance: \$20.00

Credit: See above

Uniform: Must be purchased

Credential: Patient Care Technician

INTRODUCTION TO PHARMACY (course 490022) —introduces students to the pharmacy profession. Course content emphasizes the history of medicine, technology and legal issues. Students may opt to take the Pass Assured Pharmacy Technician computer-driven course which will prepare them to sit for Pharmacy Technician Exam*. Students enrolled in this course are eligible for membership in Health Occupations Students of America (HOSA).

Grade level: 11-12

Fee: \$50.00*

Prerequisite: Foundations of Health Science.

*Students may not take the exam until the spring of their senior year.

Credit: 1

Credential: Pharmacy Technician

NURSE AIDE TRAINING (course 490034) - is a two-credit course that is designed for high school seniors to develop health care specific knowledge for a career in the medical field. Students pursue skill mastery in the classroom and laboratory, and also participate in intensive job-specific training in the clinical area. The Nurse Aide Training program and Health Science instructor must be approved by the Alabama Department of Public Health (ADPH), Division of Health Care Services, for students to be eligible for the National Nurse Aide Assessment. Students must successfully complete an approved program and pass the National Nurse Aide Assessment certification exam in order to become a Certified Nurse Aide (CNA). Students enrolled in this course are eligible for membership in Health Occupations Students of America (HOSA).

Grade level: 12

Fee: \$10.00

Prerequisite: Foundations of Health Science, Internship Application, Teacher Approval

Liability Insurance: \$20.00

Credential: Certified Nursing Assistant

Credit: 1

HOSPITALITY AND TOURISM CLUSTER

The Hospitality and Tourism cluster prepares high school students for the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services using real work, hands-on knowledge and skills in commercial and professional lab settings. This diversified and intensive education program enables students to pursue careers in one of Lodging and Recreation, Travel, and Tourism.

HOSPITALITY AND TOURISM FOUNDATION COURSE (course 500011) – A one-credit foundation course designed to introduce students to the hospitality and tourism industry, the lodging industry, and culinary arts. This course is a required course and serves as the prerequisite for Culinary Arts I, Travel and Tourism I, and Lodging I.

Grade level: 9-12

Fee: \$30.00

Prerequisite: Career Preparedness

Credential: NPC in Customer Service and Sales

Credit: 1

EVENT PLANNING (course 500015) - Students will learn to organize and plan all aspects of business and social events including the food, location, and décor associated with hiring an event planner. Concepts taught in the course to meet the needs of clients include planning for the event with activities, establishing a budget, determining the theme, planning the guest list, determining the location, developing an event plan schedule, planning transportation needs, training of staff, staging the event, calculating room and space requirements, providing necessary technology and equipment, planning food and beverage services, securing entertainment, understanding legal issues in event planning, and conducting post-evaluations of events. Students demonstrate leadership characteristics and make decisions based on integrating knowledge of financial, human resources, promotion, and event management principals. Students are prepared for various career opportunities in event planning.

Grade level: 9-12

Fee: \$30.00

Prerequisite: Hospitality and Tourism

Credential: NPC in Customer Service and Sales

Credit: 1

LODGING I (course 500031) - A one-credit course designed to prepare students to perform tasks related to the operation of lodging facilities and the care of guests who use these facilities, either through direct guest contact or the provision of background services that enhance the guest experience.

Grade level: 9-12

Fee: \$30.00

Prerequisite: Hospitality and Tourism

Credential: NPC in Customer Service and Sales

Credit: 1

TRAVEL AND TOURISM I (course 500021) - A one-credit course focused on the development, research, packaging, promotion, and delivery of a traveler's experiences that may include creating guide books, planning trips and events, managing a customer's travel plans, or overseeing a convention center.

Grade level: 9-12

Fee: \$30.00

Prerequisite: Hospitality and Tourism

Credential: NPC in Customer Service and Sales

Credit: 1

INFORMATION TECHNOLOGY CLUSTER

The Information Technology (IT) cluster provides learners with essential knowledge and skills for pursuing careers in the following three pathways: Database Design; Network Systems and Computer Services; and Programming and Software Development. The IT industry is a dynamic and entrepreneurial working environment that has a revolutionary impact on the economy and society. In addition to careers in the IT industry, IT careers are available in

every sector of the economy - from Financial Services to Medical Services, Business to Engineering and Environmental Services. Rigorous instruction is provided to equip learners with knowledge and skills for college and career readiness.

INFORMATION TECHNOLOGY FUNDAMENTALS (course 520005) introduces students to the knowledge base and technical skills for information technology careers. Students study the nature of business and demonstrate knowledge of the functions of information systems in business.

Grade level: 9-12

Fee: \$35.00

Prerequisite: Career Preparedness, Teacher Approval

Credential: Microsoft Technology Associate

Credit: 1

PROJECT LEAD THE WAY – COMPUTER SCIENCE

At a time when computer science affects how we work and live, PLTW Computer Science empowers students in grades 9-12 to become creators, instead of merely consumers, of the technology all around them. The program's interdisciplinary courses engage students in compelling, real-world challenges. As students work together to design solutions, they learn computational thinking – not just how to code – and become better thinkers and communicators. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

COMPUTER SCIENCE ESSENTIALS PLTW (course 520046) Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to Computer Science Principles and Computer Science A.

Grade level: 9-12

Fee: \$35.00

Prerequisite: Career Preparedness, Teacher Approval

Credential: None

Credit: 1

ADVANCED PLACEMENT (AP) COMPUTER SCIENCE PRINCIPLES PLTW (course 520018) Using Python® as a primary tool, students explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and use what they've learned to tackle challenges like app development and simulation. *This course is endorsed by the College Board, giving students the opportunity to take the AP CSP exam for college credit.*

Grade level: 9-12

Fee: \$35.00

Prerequisite: Computer Science Essentials PLTW

Credential: AP Computer Science Exam

Credit: 1

CYBERSECURITY PLTW (course 520051) – A one-credit course that introduces students to the tools and concepts of cybersecurity and encourages them to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

Grade level: 9-12

Fee: \$35.00

Prerequisite: Computer Science Essentials PLTW

Credit: 1

JUNIOR RESERVE OFFICER TRAINING CORPS (JROTC)

Partnership with Sheffield High School

JUNIOR RESERVE OFFICER TRAINING CORPS (JROTC) is a program offered to high schools that teaches students character education, student achievement, wellness, leadership, and diversity. It is a cooperative effort between the military and the high schools to produce successful students and citizens, while fostering in each school a more constructive and disciplined learning environment. JROTC provides course work on leadership, civics, geography and global awareness, health, and wellness, language arts, life skills, and U.S. history. The curriculum is based on the principles of performance-based, learner-centered education and promotes development of core abilities capacity for life-long learning, communication, responsibility for actions and choices, good citizenship, respectful treatment of others, and critical thinking techniques. . Students must apply to participate, and an academic team composed of the principal and selected teachers and/or counselors will make student selection.

Grade level: 9-12

Prerequisite: Career Prep

Credit: 1

Credential: JROTC Certificate