

Course Catalog



2017-2018

Deshler
High
School

2017-2018
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

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

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

**DIPLOMA OPTIONS FOR STUDENTS
IN THE CLASSES OF 2018, 2019, AND 2020**

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

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

Deshler High School

Course Catalog

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

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

GEOMETRY ESSENTIALS A (course 700018) is aligned to Geometry and provides students with foundational skills identified in the Geometry course. The courses include essential concepts to equip students with the geometry skills necessary for employment and independent living.

Grade level: 11, 12

Prerequisites: Algebraic Essentials A, Algebraic Essentials B

Credit: 1

GEOMETRY ESSENTIALS B (course 700019) is aligned to Geometry and provides students with foundational skills identified in the Geometry course. The courses include essential concepts to equip students with the geometry skills necessary for employment and independent living. Students will take the state provided end of course test for Geometry.

Grade level: 12

Prerequisites: Algebraic Essentials A, Algebraic Essentials B, Geometry Essentials A

Credit: 1

GEOMETRY ESSENTIALS (course 750651) This course that combines Geometry Essentials A and B into a one year, one-credit course. Geometry Essentials contains the course content for students following the Essentials pathway. This course provides students with foundational skills identified in the general education Geometry course. The course includes essential concepts to equip students with the geometry skills necessary for employment and independent living.

Grade level: 10, 11

Prerequisites: Essentials Algebra IA and Essentials Algebra IB or Algebraic Essentials

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

ESSENTIALS ALGEBRA II (course 750701) contains the course content for students following the Essentials pathway. This course provides students with foundational skills identified in the general education Algebra II course. The course includes algebra concepts to equip students with more advanced algebra skills necessary for employment and independent living.

Grade level: 12

Prerequisites: 3 math credits; Essentials Algebra IA, Essentials Algebra IB and Essentials Geometry

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

ESSENTIALS ALGEBRA WITH FINANCE (course 750801) contains the course content for students following the Essentials pathway. This course integrates foundational algebra, probability and statistics, and geometry to solve financial problems that occur in everyday life. These skills are identified in the general education Algebra with Finance course. The course includes real-world problems in investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting, and planning for retirement in order to equip students with the skills necessary for employment and independent living.

Grade level: 12

Prerequisites: 3 math credits; Essentials Algebra IA, Essentials Algebra IB and Essentials 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

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

ESSENTIALS II: U.S. HISTORY TO 1877 (course 700032) This course follows a chronological study of major events, issues, movements, leaders, and groups of people of the United States through Reconstruction from a national and Alabama perspective.

Grade level: 10

Prerequisite: World History and Geography since 1500

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.

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

ESSENTIALS III: U.S. HISTORY FROM 1877 (course 700033) This course begins with the post-Reconstruction United States and its shift into a more industrialized society and continues through the twentieth century to the present.

Grade level: 11

Prerequisite: 10th grade Essentials United States History

Credit: 1

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

ESSENTIALS IV: U. S. GOVERNMENT (course 700035) This course focuses on the origins, structure, and functions of government at all levels. It also includes a detailed study of the constitution of the United States and its provisions.
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

ESSENTIALS IV: ECONOMICS (course 700034) This course focuses on the functions and institutions of modern-day economic systems and theory. Students gain skills that will enable them to anticipate changes in economic conditions and how to adjust to the changes to improve their lives and their communities. Teachers must meet highly qualified teacher status for the appropriate course and grade.
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

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
Prerequisite: 8th Grade Science
Credit: 1

Lab Fee: \$20.00

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
Prerequisite: 8th Grade Science and/or parental approval
Credit: 1

Lab Fee: \$20.00

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
Prerequisite: Biology
Credit: 1

Lab Fee: \$20.00

ESSENTIALS: PHYSICAL SCIENCE (course 750101) provides students with practical knowledge of Physical Science including scientific process and application skills; periodic table; solutions; bonding; chemical formulas; physical and chemical change; gravitational, electromagnetic, and nuclear forces; motion; energy; energy transformation; electricity and magnetism; nuclear science; metric units. Teachers must meet highly qualified teacher status for the appropriate course and grade.
Grade level: 10-12
Prerequisite: Essentials Biology
Credit: 1

Lab Fee: \$20.00

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
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

Lab Fee: \$20.00

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

ESSENTIALS: EARTH AND SPACE SCIENCE (course 750301) provides students with practical knowledge of Earth and Space Science including scientific process and application skills; energy in the Earth system; weather; seasons; theories for origin and age of the universe; stars, pulsars, quasars, black holes, and galaxies; Earth and space scientists; space exploration.

Grade level: 11-12

Lab Fee: \$20.00

Prerequisite: Essentials 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)

ESSENTIALS: ENVIRONMENTAL SCIENCE (course 750401) provides students with a practical knowledge of Environmental Science including scientific process and application skills; natural and human impacts; carrying capacity; renewable and nonrenewable energy resources; properties and importance of water; land use practices; composition and erosion of soil.

Grade level: 11-12

Lab Fee: \$20.00

Prerequisite: Essentials Biology and Essentials Physical Science

Credit: 1

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

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

ART I/VISUAL ARTS LEVEL I (course 280093) 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

ART II /VISUAL ARTS LEVEL II (course 280094) builds on the knowledge and skills acquired in 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: Art I and teacher recommendation.

Credit: 1

ART III/VISUAL ARTS LEVEL III (course 280095) 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: Art II and teacher recommendation.

Credit: 1

ART IV/VISUAL ARTS LEVEL IV (course 280096) 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: Art III 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

ARTS SURVEY (A.K.A. HUMANITIES) (course 280001) is a chronological cultural literacy survey of mythology, art history, architecture, music, theater, and philosophy. Students gain an overview of some of the most influential people and ideas of Western civilization. Creative projects and activities enhance the learning experience.

Grade level: 10-12

Fee: \$15.00

Prerequisite: "B" average in English and teacher recommendation.

Credit: 1

BAND I/INSTRUMENTAL LEVEL I (course 280031) includes marching band and concert band. 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 Band.

Grade Level: 9-12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

BAND II/INSTRUMENTAL LEVEL II (course 280033) includes marching band and concert band. 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. Second Year of Band.

Grade Level: 10-12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

BAND III/INSTRUMENTAL LEVEL III (course 280035) includes marching band and concert band. 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. Third Year of Band.

Grade Level: 11-12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

BAND IV/INSTRUMENTAL LEVEL IV (course 280037) includes marching band and concert band. 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. Fourth Year of Band.

Grade Level: 12

Fee: \$50.00

Prerequisite: Director Approval

Credit: 1

CHORUS I/VOCAL LEVEL I (course 280051) 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/VOCAL LEVEL II (Course 280053)

CHORUS/VOCAL LEVEL III (Course 280055)

CHORUS/VOCAL LEVEL IV (Course 280057)

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

Theater I (course 280071) is an introduction to theatre, this course includes the study of plays, make-up and costume, technical areas of production, acting, film study and voice and diction. Emphasis is on developing interest in theatre and on how theater skills can be translated into everyday living skills. The second semester goes into greater detail and builds further on the development of student interest in theatre. The students will participate in an end of the year performance.

Grade level: 9-12

Fee: \$25.00 (Class fee covers Theater Association dues)

Prerequisite: None

Credit: 1

Theater II (course 280072) provides the motivated theatre student the opportunity to develop further the talents and techniques needed for a variety of stage performances (e.g., solo and duet acting and literary interpretation). Individual instruction is given in the areas of vocal training, stage movement, characterizations and timing for the stage and film. Concentrating on in-depth performance, this is a laboratory course with emphasis on performing before an audience. Students formulate talents for major production work as well as for district and state competition. This is a performance-based course, and should expect to work some outside the regular hours of the school day on performances.

Grade level: 9-12

Fee: \$25.00 (Class fee also covers Theater Association dues.)

Prerequisite: Completion of Theater I

Credit: 1

Advanced Theater III (course 280073) This is a concentrated laboratory for rehearsal and performance of plays. Emphasis is on major production work as well as on district and state theatre competition. This course also includes opportunities for students to experience various areas of individual interest (e.g., stage management, film projects, directing, acting). Actual performance continues to be its emphasis.

Grade level:10-12

Fee: \$25.00 (Class fee also covers Theater Association dues.)

Prerequisite: Completion of Theater II

Credit: 1

Theater Production I (course 280076) Students study technical areas in the preparation of a play. Ever wonder “how did they do that?” Stagecraft students learn about all the "behind the scenes" activities of theatre like special effects, set building, lighting, sound, properties, make-up, and costuming. Students work on seasonal productions, and should expect to get their hands dirty. Students must be willing to work after school on occasion as all students in the course are required to serve as the technical crew for all school theatrical productions.

Grade level 10-12

Fee: \$25.00

Prerequisite: none (Class fee also covers Club and Theater Association Dues.)

Credit: 1

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- fitsall" 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.

FUNDAMENTALS OF AGRISCIENCE (course 420101) provides students with a fundamental overview of the cluster. Students are involved in classroom and laboratory activities in each of the five Agriscience areas – Agribusiness Systems; Plant Systems; Animal Systems; Environmental and Natural Resources; and Power, Structure, and Technical Systems.. 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 (Can count as a science elective)

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

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

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

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: \$35.00

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: \$35.00

Prerequisite: Business Technology Applications

Credential: Microsoft Office Specialist

Software: Microsoft Office 2013

Credit: 1

LAW IN SOCIETY (course 410023) is designed to acquaint students with the basic legal principles common to business and personal activities. This course is an overview of criminal, civil, contract, and consumer law. Students enrolled in this class are eligible for membership in Future Business Leaders of America (FBLA).

Grade level: 10-12

Fee: \$20.00

Prerequisite: Career Preparedness

Credit: 1

MANAGEMENT PRINCIPLES (course 480011) is designed to provide students with an overview of in-depth marketing concepts. Students enrolled in this class will learn about advertising, selling, and promotion in today's job market. Students will also learn about necessary interview skills and resume builders for today's job market. Students are eligible for membership Future Business Leaders of America (FBLA).

Grade level: 9-12

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

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

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: 10-12

Fee: None

Prerequisite: Business Technology Applications or Multimedia Publications/Design, with a "75" average or higher and approval of faculty sponsor. Students must apply for a position on the yearbook staff.

Credit: 1

COMPUTER INFORMATION SYSTEMS (CIS 125) Dual Enrollment (course 925607)

Business Applications of Microcomputer Software. A study of the application of microcomputer software to the business environment. Included are word processing, data management, presentation, and spreadsheet software programs.

Grade Level: 10-12

Prerequisite: Students must apply online for Early College at UNA and complete an Early College Course Approval Form

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 two Business, Management and Administration courses or be enrolled in while taking Cooperative Education.

Classes include Career Preparedness, BTA, BTA-Advanced, Multimedia Publications, Multimedia Design, Law in Society, or any of the Information Technology Courses.

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.

ENGINEERING GRAPHICS/DRAFTING DESIGN TECHNOLOGY

INTRODUCTION TO DRAFTING DESIGN (410005) is an introduction to the Drafting Design Technology field. It provides essential information that builds a strong foundation for the entire program. Emphasis is placed on student safety, tools, and procedures, geometric construction, sketching, dimensioning practices, visualization, and orthographic projection concepts. Computer-Aided Drafting (CAD) functions and techniques using CAD software applications are introduced. Upon successful completion of this course, students are able to utilize the tools and interpret basic drafting standards to complete a multi-view drawing. This entry level course may be taken as one of the optional technical courses with credit applied to the Industrial Maintenance Technology program.

Grade level: 9-12

Fee: \$20.00

Prerequisite: None

Credential: AutoCAD

Credit: 1

INTERMEDIATE DRAFTING (course 430010) designed to further the development of students' knowledge regarding the use of drafting practices and procedures. Students expand their ability to illustrate more complex objects using the Computer-Aided Drafting (CAD) system. Topics include: sectioning, auxiliary views, threads and fasteners, pictorials, and the continuation of conventional dimensioning practices. Upon successful completion, students are able to develop section views, primary auxiliary views, thread representations and pictorial views, and apply dimensions properly on a drawing.

Grade level: 10-12

Fee: \$20.00

Prerequisite: Introduction to Drafting Design

Credential: AutoCAD

Credit: 1

INTRODUCTION TO ARCHITECTURAL DESIGN (course 430013) introduces students to the basic terminology, concepts, and principles of the Architectural Design field. Emphasis is placed on floor plan layout, electrical layout, foundations typical elevations, and section drawings. Upon successful completion of this course, students are able to draw a basic residential architectural construction drawing.

Grade level: 9-12

Fee: \$20.00

Prerequisite: Introduction to Drafting Design

Credential: AutoCAD

Credit: 1

INTERMEDIATE ARCHITECTURAL DESIGN (course 430014) provides students with instruction regarding more advanced and detailed architectural plans. Topics include: multilevel floor plan layout, building specifications, detailing, plumbing, and electrical plans with basic site plan layout. Students are encouraged to research and develop a career readiness project with instructor's approval. Upon successful completion of this course, students are able to organize, layout, and draw more advanced level residential architectural plans.

Grade level: 10-12

Fee: \$20.00

Prerequisite: Introduction to Architectural Design

Credential: AutoCAD

Credit: 1

THREE-DIMENSIONAL SOLID MODEL DESIGN (course 430016) provides students the opportunity to explore 3-D modeling. Emphasis is placed on working planes, profile creation, protrusions, and rendering techniques. Students create 2-D part drawings relative to 3-D models. Advanced students may elect to study the principles of 3-D animation. Students are encouraged to research, develop, and present a career related project.

Grade level: 11-12

Fee: \$20.00

Prerequisite: Intermediate Design

Credential: AutoCAD

Credit: 1

FOOD, WELLNESS AND DIETETICS

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

Prerequisite: This course is not a prerequisite for courses included in all pathways within the cluster; however, students are encouraged to take the course before entering a pathway.

Credit: 1

Credential: ServSafe

PARENTING (course 510023) Parenting is a one-credit course. The course allows students to focus on parenting roles and responsibilities. Content provides opportunities for students to explore family structures and stages of the family life cycle; roles and responsibilities of parents across the life span; factors influencing the decision to become a parent; preparation for parenthood; birth defects; challenges of teen pregnancy and parenthood; signs and changes in pregnancy; prenatal development, labor, and delivery; stages of child development; children with exceptionalities; meeting physical, health, and safety needs of children and adolescents; positive parent-child relations; guidance and discipline of children and adolescents; sources of parenting information, support, and assistance; technology impacting parenting; and career opportunities related to parenting. 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

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

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

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

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 (course 490013 – 1 credit); (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, Insurance: \$20.00

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

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. *There is no fee unless taking the Pass Assured Program

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

Credit: 1

Credential: Certified Nursing Assistant

INFORMATION TECHNOLOGY CLUSTER

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

COMPUTER MANAGEMENT AND SUPPORT (course 410019) provides students with skills necessary to manage a stand-alone computer on a home network. Topics include computer hardware, computer operating systems, network architecture, network protocols, career opportunities, and network design and security.

Grade level: 10-12

Fee: \$35.00

Prerequisite: Information Technology Fundamentals

Credential: Microsoft Technology Associate

Credit: 1

NETWORKING (course 520021) provides students with skills involving a hands-on, career-oriented approach to learning networking that includes practical experiences. It is recommended that Information Technology Fundamentals be taken prior to this course.

Grade level: 10-12 Fee: \$35.00

Prerequisite: Information Technology Fundamentals

Credit: 1

COMPUTER APPLICATIONS – ROBOTICS (course 260002) Fall Only Computer Applications incorporates Best Robotics into a classroom setting. Students will utilize technology skills to build and program a robot and design a marketing campaign for their robotics business. They will participate in the Best Robotics Competition at Northwest Shoals Community College. Students will understand the practical use of math concepts and applied physics, solve real-world science and engineering problems, gain an increased interest in engineering, math, and science, understand the engineering profession, and experience “design-to-market” product development. Students will be competent in abstract thinking, self-directed learning, teamwork, project management, decision-making, problem-solving, and leadership.

Grade level: 10-12

Fee: \$35.00

Prerequisite: Information Technology Fundamentals

Credit: 1

COMPUTER SCIENCE – PLTW (course 560025) Students create apps for mobile devices, automate tasks in a variety of languages, find patterns in data, and interpret simulations. Students collaborate to create and present solutions that can improve people’s lives. This is the basic computer science course and the first one in Project Lead The Way (PLTW).

Grade level: 9 -12

Fee: \$35.00

Credit: 1