

*DEKALB COUNTY HIGH SCHOOL*

*COURSE CATALOG*

*2022-2023*

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# Graduation Requirements

Every student graduating in Tennessee must follow the state requirements.

Students planning on playing college sports need to check with the counselor about NCAA graduation requirements.

Core Curriculum Requirements Class of 2024 to Current Year	
English .....	4 Credits
Math (Must include Alg 1, Alg 2, Geometry & 1 higher math)	4 Credits
Science (Must include Bio I, Chemistry/Physics & Lab Science)	3 Credits
Social Studies (Must include W. History/Geog, US History, Econ & Gov)	3 Credits
Business Management.....	1 credit
Lifetime Wellness.....	1 Credit
Personal Fitness	1/2 Credit
Personal Finance	1/2 Credit
Focus Area Classes	3 Credits
Foreign Language..... (2 credits in same language)	2 Credits
Fine Arts.....	1 Credit
Electives.....	4 Credits
<b>Total Credits Needed for Graduation 2024 + Current</b>	<b>27</b>

## Sample Course Sequencing for 6-Year Plans

Note: What follows are suggested sequences and reflect minimum requirements. Final Decisions on 9<sup>th</sup> grade English, Math, and Science placement should be based on grades earned in the 8<sup>th</sup> grade and on standardized testing scores.

On your 6-year plans, you need to list specifically which elective courses and focus area courses you wish to take. **DO NOT Simplify WRITE "ELECTIVE" OR "FOCUS AREA COURSE."** For example, if you would like to take Vocal Music as an elective, write "Vocal Music" in the elective spot. **Students may take any course DCHS offers as an elective course provided they meet the prerequisite and grade level requirements (refer to course descriptions for this information).** However, students who need courses for graduation requirements are given first opportunity to enroll in these courses.

<b>Sample University Path Course Sequencing for 6-year Plans</b>	
<b>Ninth Grade</b>	<b>Tenth Grade</b>
Regular or Honors English I (year- long)	Regular or Honors English II (year- long)
H. Algebra I or Algebra I (year- long)	H. Algebra II or Algebra II (year-long)
Biology I (year- long)	H. Physical Science or Regular Physical Science
Personal Fitness	World History/ Geography
Wellness	Fine Art Elective
Business Managment	Spanish I
First Elective from Focus Area	Elective from Focus area
Elective	Elective
<b>Eleventh Grade</b>	<b>Twelfth Grade</b>
Regular, Honors or Dual Enrollment English III	Regular, Honors, or Dual Enrollment English 1V
H. Geometry or Geometry (year- long)	Regular or Honors U.S. Government
H. Chemistry I or Chemistry I (year- long)	Regular or Honors Economics
U.S. History (year- long)	Applied Math Concepts, Statistics or DE Math
H. or regular Spanish II	Personal Finance
Elective from Focus area	Elective from Focus area
Elective	Elective
Elective	Elective
Elective	Elective
	Elective

**Note: If taking a yearlong class, student must pass both A & B sections for graduation purposes.**

### **Focus Area/ Program of Study:**

**\*- Dual-enrollment available for 11-12 grades  
Courses must be taken in order**

#### **Program of Study - Math & Science**

Course offering: Any three additional Math, or Science classes above what is required for graduation.

#### **Program of Study - Humanities**

Course offering: Any three additional English, Mythology, Foreign language or fine arts classes above what is required for graduation

#### **Career Cluster 1.0- Agriculture, Food and Natural Resources**

##### **Program of Study- Animal Science**

Course offerings  
AgriScience  
Small Animal Science  
Large Animal Science  
WBL- Internship at Vet office

##### **Program of Study-Horticulture Sciences**

Course offerings  
AgriScience  
\*Greenhouse Management  
\*I & E Landscaping  
WBL- Internship

## Career Cluster 2.0- Architecture and Construction

### **Program of Study- Construction and Carpentry**

Course offerings

Fundamentals of Construction

Resident & Commercial Construction I A & B

\*Resident & Commercial Construction II Practicum

### **Program of Study- Mechatronics**

Course offerings

Fundamentals of Manufacturing

\*Digital Electronics

\*Robotics

WBL-Internship

## Career Cluster 4.0- Business Management and Administration

### **Program of Study- Business Management 4.1**

Course offerings

Intro to Business & Marketing

Business Communications

Business Management

### **Program of Study- Office Management**

Computer Science Foundation

Business Communications

Business Management

### **Program of Study- Coding**

Course offerings

Computer Science Foundations

Coding I

Coding II

## Career Cluster 8.0- Health Science

### **Program of Study- Diagnostic Services**

Course offerings

Health Science

Diagnostic Medicine

\*Anatomy & Physiology

WBL-Clinical Internship

### **Program of Study- Therapeutic Nursing Services**

Health Science

Medical Therapeutics

\*Anatomy & Physiology

WBL-Clinical Internship

### **Program of Study- Sports and Human Performance**

Health Science Education

Rehabilitation Careers

\*Anatomy & Physiology 11-12

WBL-Clinical Internship 11-12

## Career Cluster 10.0- Human Services

### **Program of Study- Food and Beverage Services**

Course offerings  
 Culinary Arts I  
 Culinary Arts II  
 Culinary Arts III  
 Culinary Arts IV

### **Program of Study- Teaching Training Services**

Course offerings  
 Fundamentals of Education  
 Teaching as a Profession I  
 Teaching as a Profession II  
 \*Teaching as a Profession Practicum

### **Program of Study- Human Services**

Introduction to Human Services  
 Lifespan Development  
 Family Studies

### **Program of Study- Cosmetology**

\*Cosmetology I  
 \*Cosmetology II  
 \*Cosmetology III

## Career Cluster 13.0- Manufacturing

### **Program of Study- Precision Production 13.1**

Course offerings  
 Principles of Machining I  
 Principles of Machining II A & B  
 \*Adv. Manufacturing Practicum A & B

### **Program of Study- Mechatronics**

Course offerings  
 Fundamentals of Manufacturing  
 \*Digital Electronics  
 \*Robotics  
 WBL-Internship

## Career Cluster 16.0- Transportation, Distribution, and Logistics

### **Program of Study- Automotive Technology 16.41**

Course offerings  
 Maintenance & Light Repair I  
 Maintenance & Light Repair III  
 \*Maintenance & Light Repair IV

## Career Cluster -Criminal Justice & Law Enforcement

### Program of Study- Criminal Justice

Course offerings

Criminal Justice I

Criminal Justice II

\*Criminal justice III-Forensic Criminal Investigations

SDC Criminal justice III

## DCHS Courses

**Prerequisite = A course/requirement that must be taken/met before another course.**

**Concurrent = A course that must be taken either before or during another course.**

**Students can only sign up for courses that are on their grade level and courses for which they have met the prerequisite requirements.**

## ENGLISH

**ESL English / Grade Level 9-12 / prerequisite: Must be from non-English language background.**

The ESL program is for students from non-English language backgrounds. This class may be taken for English credit up to 2 times. After 2 credits, students may take ESL English for elective credits.

**English I A & B/ Grade Level 9 / Prerequisite: None**

English I consist of instruction in basic level-nine grammar, mechanics, and vocabulary as well as instruction in some literary terms. This course also includes a review of grammar and usage skills found on the English I state end-of-course exam, which is given to all ninth grade students.

**Honors English I A & B/ Grade Level: 9 / Prerequisite:** Placement should be based on grades earned in the 8<sup>th</sup> grade and on standardized testing scores. This English class is designed for college-bound students and offers a condensed curriculum which includes instruction in grammar, mechanics, vocabulary, and literature (English and American). For composition, students are required to learn all sentence structures, which enable them to compose various types of paragraphs consisting of varied sentence beginnings and structures. These paragraphs are graded for content and for grammatical and mechanical errors. This course also includes a review of grammar and usage skills found on the English I state end-of-course exam, which is given to all ninth grade students.

**English II A & B/ Grade Level: 10 / Prerequisite: English I or Honors English I**

English 10 consists of instruction in basic level-ten grammar, mechanics, and vocabulary as well as instruction in literary. Students taking this course will take the state End of Course exam.

**Honors English II A & B/ Grade Level: 10 / Prerequisite: Recommended Honors English I**

This English class is designed for college-bound students and offers a condensed curriculum, which includes instruction in grammar, mechanics, vocabulary, and literature (English and American). For composition students are required to learn all sentence structures, which enable them to compose various types of paragraphs consisting of varied sentence beginnings and structures. These paragraphs are graded for content and for grammatical and mechanical errors. Students taking this course will take the End of Course exam.

**English III / Grade Level: 11 / Prerequisites: Regular or Honors English I & II**

The English II class emphasizes learning sentence structure, recognizing sentence fragments and run-on sentences, learning to write good paragraphs, writing book reports, and acquainting students with American literature

**Honors English III / Grade Level: 11 / Prerequisites: Recommended Honors English I & II**

This is a course for college-bound students and is structured much like an introductory college English class. Students will become acquainted with the *Harbrace College Handbook*, write themes and correct them using the handbook, and will learn how to do appropriate outlines for research papers. Students will also study and write themes concerning American literature focusing on setting, characterization, comparison/contrast, persuasion, and narratives

**English IV / Grade Level: 12 / Prerequisites: Regular or Honors English I, II, & III**

This course builds on the skills taught in preceding English classes including grammar, usage, mechanics, and practical application of writing skills. Students will also study British literature.

**Honors English IV /Grade Level: 12 / Prerequisites: Recommended Honors English I, II, & III**

This course builds on the writing and research processes taught in the preceding advanced English courses. It places an emphasis on writing, thinking, and reading on a variety of topics including British literature. This class also emphasizes critical, expository, and descriptive writing.

**Yearbook A & B/ Grade Level: 10-12 / Prerequisite: Need Teacher Approval**

Yearbook is a learn-by-doing class in which students use the computer to design, edit, and produce the yearbook. Class is year-long. Students must take A & B sections. Students are chosen by the yearbook advisor/teacher to take this class.

**Bible History/ Grade Level: 9-12 / Prerequisite: None**

The purpose of this course is to enable students to acquire an understanding and appreciation of the Bible's major ideas, historical/geographical contexts, and literary forms. The course will include the study of the Bible in its historical, sociological, and cultural contexts, and its impact on later cultures, societies, and religions.

**Honors Mythology/ Grade Level: 10-12 / Prerequisite: Need Teacher Approval**

This course is designed as a college class and will explore a sample of Greek, Roman, and Norse mythology. Using many sources, both written and visual, students will analyze the language and basis of mythology that many writers use to explain concepts and ideas in their own writings. Students will leave this course with an understanding of the difference between Greek, Roman, and Norse mythology, the historical context for the myths, and the use of evidence and discussion to critically analyze the thought process behind the implementation of mythology in past and present society. A particular focus of the course is the legacy of mythology in modern literature and popular culture.



## Math

<b>Suggested Math Course Sequencing</b>			
<b>UNIVERSITY PATH</b>			
<b>9<sup>th</sup></b>	<b>10<sup>th</sup></b>	<b>11<sup>th</sup></b>	<b>12<sup>th</sup></b>
<b>H. Algebra I or Algebra I Year-Long</b>	<b>Algebra II or H. Algebra II Year-Long</b>	<b>Geometry or H. Geometry Year-Long</b>	<b>Statistics, AP Calculus or Dual Enrollment Math</b>

### **Honors Algebra I A & B/ Grade Level: 9**

This study includes operations with rational numbers, equations, inequalities, graphing, polynomials, factoring, functions, radicals, and quadratics. Students will take a state end-of-course exam during this course. Placement should be based on grades earned in the 8<sup>th</sup> grade and on standardized testing scores.

### **Algebra I A & B/ Grade Level: 9**

This course covers the same material as the Algebra I - Single Semester course, but does so in 2 semesters. Students who benefit from receiving math instruction at a slower pace will benefit from this class. Students will take a state end-of-course exam during this course.

### **Honors Algebra II A & B/ Grade Level 11/ Prerequisite: Algebra I**

This study includes operations with rational numbers, equations, inequalities, graphing, polynomials, factoring, functions, radicals, and quadratics. Students will take a state end-of-course exam during this course.

### **Algebra II A & B/ Grade Level: 11/ Prerequisite: Algebra I**

This course covers the same material as the Algebra II - Single Semester course, but does so in 2 semesters. Students who benefit from receiving math instruction at a slower pace will benefit from this class. Students will take a state end-of-course exam during this course.

### **Honors Geometry A & B/ Grade Level: 10 / Prerequisite: Algebra I**

Geometry is a course that uses problem situations, physical models, and appropriate technology to investigate geometric concepts, relationships, and systems. Students will take a state end-of-course exam during this course.

### **Geometry A & B/ Grade Level: 10 / Prerequisite: Algebra I**

Geometry is a course that uses problem situations, physical models, and appropriate technology to investigate geometric concepts, relationships, and systems. Students will take a state end-of-course exam during this course.

**Honors Pre-Calculus / Grade Level: 11-12 / Prerequisites: Algebra I, Algebra II, Geometry,**  
For students wanting to take AP Calculus.

### **AP Calculus AB / Grade Level: 11-12 / Prerequisites: H. Algebra I, H. Algebra II, & H. Geometry,**

This course covers limits of functions, the derivative, and applications of the derivative. This is a semester long course. Students will earn one math credit. Students will take the AP exam at the end of this course. Students who pass the test will receive college credit.

**AP Calculus BC / Grade Level: 11-12 / Prerequisites: H. Algebra I, H. Algebra II, H. Geometry & AP Calculus AB,**

This course covers limits of functions, the derivative, and applications of the derivative. This is a yearlong course. Students will take the AP exam at the end of this course. Students who pass the test will receive college credit.

**Honors Statistics A & B/ Grade Level 12**

Statistics is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The major themes in Statistics include: interpreting categorical and quantitative data, conditional probability and other rules of probability, using probability to make decisions, and making inferences and justifying conclusions.

**Statistics A & B/ Grade Level 12**

Statistics is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The major themes in Statistics include: interpreting categorical and quantitative data, conditional probability and other rules of probability, using probability to make decisions, and making inferences and justifying conclusions.

**Sails Math A & B/ Grade Level 12**

Remedial math class for those students who score less than a 19 on the math section of the ACT. Meets remedial math requirements for students going onto post-secondary education.

## Science

### Science Course Sequencing Recommendations

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
<i>Minimum Requirements for Graduation</i>			
<b>Biology I</b>	<b>Physical Science</b>	<b>Chemistry</b>	

**Honors Biology I A & B/ Grade Level: 9**

Honors Biology I is a course that introduces students to the world of living things. The students explore the following: basic life processes at the molecular, cellular, systemic, organismal, and ecological levels of organization within the biosphere; interdependence and interactions within the environment to include relationships, behavior, and population dynamics; cultural and historical scientific contributions of men and women; evidence that supports biological evolution; and current and emerging technologies. Students will have open ended test questions and independent work. Students will take a state end-of-course exam during this course. By invite only.

**Biology I A & B/ Grade Level: 9-10 / Prerequisite: None**

Biology I is a course that introduces students to the world of living things. The students explore the following: basic life processes at the molecular, cellular, systemic, organismal, and ecological levels of organization within the biosphere; interdependence and interactions within the environment to include relationships, behavior, and population dynamics; cultural and historical scientific contributions of men and women; evidence that supports biological evolution; and current and emerging technologies. Students will take a state end-of-course exam during this course.

**Inclusion Biology I A & B/ Grade Level: 9-10 / Prerequisite: None**

This course has the same components as regular Biology I. Class is co-taught at a slower pace with two regular Ed teachers. Students will take a state end-of-course exam during this course.

**Physical Science A & B/ Grade Level: 10-11 / Prerequisite or Concurrent Course: Algebra I**

Physical Science is a course that explores the relationship between matter and energy. The student will investigate the following: force and motion, structure and properties of matter, interactions of matter, and energy.

**Honors Physical Science A & B/ Grade Level: 10-11 / Prerequisite or Concurrent Course: Algebra I**

Physical Science is a course that explores the relationship between matter and energy. The student will investigate the following: force and motion, structure and properties of matter, interactions of matter, and energy. Prerequisites: A/B in Biology I.

**Honors Biology II A & B / Grade Level: 11-12 / Prerequisite: A or B in Biology I**

Biology II is a course that introduces students to major specialty areas of biology. The students explore the following: comparative anatomy, zoology, embryology, genetics, immunology, microbiology, and botany.

**Honors Chemistry I A & B/ Grade Level: 10-12 / Prerequisites: Physical Science and Algebra I**

Chemistry is a course that explores the properties of substances and the changes that substances undergo. The student will investigate the following: atomic structure, matter, energy, interactions of matter, properties of solutions, and acids and bases.

**Chemistry I A & B/ Grade Level: 10-12 / Prerequisites: Physical Science and Algebra I**

Chemistry is a course that explores the properties of substances and the changes that substances undergo. The student will investigate the following: atomic structure, matter, energy, interactions of matter, properties of solutions, and acids and bases.

**AP Chemistry A & B/ Grade Level: 11-12 / Co-Requisites: AP Chemistry Lab**

AP chemistry is a college level general chemistry course. AP Chemistry is a continuation of Chemistry I, but it investigates in greater depth the fundamental makeup of matter, the interactions of matter, and the energy of such interactions. The student will investigate the following: structure of matter, states of matter, and reactions.

**Honors Physics A & B/ Grade Level: 10-12 / Prerequisites: Algebra I, & Physical Science or Biology.** Physics is a course that deals with the relationship between matter and energy and how they interact. The following major areas will be investigated: mechanics, thermodynamics, waves and sound, light and optics, electricity and magnetism, atomic and nuclear physics.

## Social Studies

### Social Studies Course Sequencing Recommendations

9 <sup>th</sup>	10 <sup>th</sup>	12 <sup>th</sup>	12 <sup>th</sup>
Minimum Requirements for Graduation			
	W. History/Geography	US History	Economics & Government & Personal Finance

**World History/Geography / Grade Level: 10-12 / Prerequisite: None**

In World History, students study the history of humankind and geographical concepts with a more concentrated focus from the Renaissance to present day. The six social studies standards of essential content knowledge and four process skills are integrated for instructional purposes. Students will utilize different methods that historians use to interpret the past, including points of view and historical context.

**SDC United States History A & B/ Grade Level: 11 / Prerequisite: None**

In United States History, students study the history of the United States Reconstruction to the present. The six social studies standards of essential content knowledge and four process skills are integrated for instructional purposes. Students will utilize different methods that historians use to interpret the past, including points of view and historical context. Students must pass both A & B classes. Students will take a state exam for possible college credit during this course.

**Economics / Grade Level: 12**

In Economics students study how people, businesses, and governments choose to use resources.

**United States Government / Grade Level: 12**

This course focuses on the United States' founding principles and beliefs. Students will study the structure, functions, and powers of government at the national, state, and local levels.

**H. Economics / Grade Level: 12**

In Economics students study how people, businesses, and governments choose to use resources. Students will complete extra projects for the Honors credit.

**H. United States Government / Grade Level: 12**

This course focuses on the United States' founding principles and beliefs. Students will study the structure, functions, and powers of government at the national, state, and local levels. Students will complete extra projects for the Honors credit.

**Personal Finance / grade Level 12 / prerequisite: None**

This course first helps students develop a foundation in the fundamentals of personal finance. Students then have the opportunity to use the knowledge and skills gained to explore types of financing and investments, the stock market, and stock valuation. Students acquire an understanding and appreciation of the need for saving and investing. The capstone activity is the development of a diversified stock portfolio. Throughout the course students are presented with problem-solving situations for which they must apply academic and critical thinking skills.

**Physical Education/Sports****Lifetime Wellness / Grade Level: 9 / Prerequisite: None**

In lifetime wellness students spend 9 weeks in the classroom studying disease prevention, family life, reproduction, safety, first aid, nutrition, and substance use and abuse. Students spend the other 9 weeks in the gym focusing on personal fitness, fitness assessment, and physical activities.

**Physical Education II / Grade Level 9-12 / Prerequisite: None**

P.E. II is an advanced physical education class, which includes fitness tests, exercise & calisthenics, running, weightlifting, and individual/dual/team sports. (May be taken multiple times for credit).

**Football A & B/ Grade Level: 9-12 / Prerequisite: Approval of Football Coach/Students will receive  $\frac{1}{2}$  credit for this course each semester.**

Football players and managers can take this course during the fall semester. Students will learn drills and plays that relate to football as well as participate in conditioning, flexibility, and agility exercises. Students are required to attend after school and evening practices and games.

**Girls Basketball A & B/ Grade Level: 9-12 / Prerequisite: Approval of Basketball Coach/Students will receive  $\frac{1}{2}$  credit for this course each semester.**

Basketball players and managers can take this course in the fall and spring semesters. The objectives for this course are for students to gain an appreciation of the game through studying the history, rules, strategies, and fundamentals with emphasis on conditioning techniques and sportsmanship. Students are required to attend after school and evening practices and games.

**Boys Basketball A & B/Grade Level: 9-12 /Prerequisite: Approval of Basketball Coach Students will receive  $\frac{1}{2}$  credit for this course each semester.**

Basketball players and managers can take this course in the fall and spring semesters. The objectives for this course are for students to gain an appreciation of the game through studying the history, rules, strategies, and fundamentals with emphasis on conditioning techniques and sportsmanship. Students are required to attend after-school and evening practices and games.

**Baseball / Grade Level: 9-12 / Prerequisite: Approval of Baseball Coach/Students will receive  $\frac{1}{2}$  credit for this course each semester.**

This is a spring semester course open only to varsity baseball players. The objectives for this course are for students to gain an appreciation of the game through lifting weights, throwing, conditioning, and sportsmanship. Students are required to attend after school and evening practices and games.

**Softball / Grade Level: 9-12 / Prerequisite: Approval of Softball Coach/Students will receive  $\frac{1}{2}$  credit for this course each semester.**

This is a spring semester course open only to varsity softball players. The objectives for this course are for students to gain an appreciation of the game through lifting weights, throwing, conditioning, and sportsmanship. Students are required to attend after-school and evening practices and games.

**Football Cheerleading / Grade Level: 9-12 / Prerequisite: Approval of Cheerleading Coach Students will receive a participation grade only.****Basketball Cheerleading / Grade Level: 9-12 / Prerequisite: Approval of Cheerleading Coach Students will receive a participation grade only.**

**Soccer, Tennis, Cross Country and Golf are also offered as after-school activities. All are open to 9-12<sup>th</sup> grade students. Prerequisite: Approval of Coaches.**

## Foreign Languages

### **Spanish I / Grade Level: 10-12 / Prerequisite: None**

Spanish I will introduce the student to a balanced curriculum of speaking, listening, reading, and writing. Paired and cooperative-learning opportunities and language-producing activities help students to begin linguistic skills. An overview of Hispanic countries is presented.

### **Honors Spanish II / Grade Level: 11-12 / Prerequisite: Spanish I**

Spanish II further develops the skills of speaking, listening, reading and writing. The basic structure of Spanish is used to personalize expression and broaden communication. Culture awareness is a primary emphasis.

### **Spanish II / Grade Level: 11-12 / Prerequisite: Spanish I**

Spanish II further develops the skills of speaking, listening, reading and writing. The basic structure of Spanish is used to personalize expression and broaden communication. Culture awareness is a primary emphasis.

### **Honors Spanish III / Grade Level: 11-12 / Prerequisite: Spanish I & Spanish II**

Spanish III further develops the skills of speaking, listening, reading and writing. The basic structure of Spanish is used to personalize expression and broaden communication.

## Fine Arts

### **Visual Art / Grade Level: 9-12 / Prerequisite: None**

This is an introductory course in visual art, which includes an introduction to the understanding and appreciation of art. This course also includes basic and intermediate instruction in basic drawing, still life, landscapes, seascapes, animals, and cartoons and well as instruction in the techniques and media of drawing including pencil, colored pencil, pen and ink, and pastels.

### **Instrumental Music / Grade Level: 9-12 / Prerequisite: Approval of band director**

Students take instrumental music in both the fall and spring semesters. In the fall semester students will focus on rehearsing and performing a marching show. Instrumental Music is a course that provides musical performance and study for students in grades 9-12. The course is designed to develop proficiency in musical performance, an understanding of the art of music, and an appreciation of the creative and intrinsic values of music, which can result in a life-long avocation. Students are required to participate in after-school and evening practices and performances.

### **Music Appreciation / Grade Level: 9-12 / Prerequisite: None**

Music Appreciation is a course that seeks to give students in grades 9-12 experiences in the study and performance of a diverse repertoire of vocal/choral music. The course will include instruction in proper vocal technique, musicianship skills, and the cultural and historical context of choral literature. The course will encourage self-expression through performance and creation of music. Students may be required to perform in some after-school performances.

### **Vocal Music / Grade Level: 9-12 / Prerequisite: None**

This is a concert choir. This class will perform a concert toward the end of the semester. This is an applied music class. You will sing in this class.

**Music Theory / Grade Level: 9-12 / Prerequisite: None**

An introduction to music notation, listening analytically, and writing music.

**Vocal Music Performance / Grade Level: 9-12 / Prerequisite: None**

The course will include instruction in proper vocal technique, musicianship skills, and the cultural and historical context of choral literature. The course will encourage self-expression through performance and creation of music. Students will be required to perform in the after-school performances.

**Advanced Vocal Music A & B / Grade Level: 9-12 / Prerequisite: Approval of Director**

This is a concert choir. This class will perform at various times throughout the semester. This is an applied music class. You will sing in this class.

## Electives

**Library Aide / Grade Level: 11-12 / Prerequisite: Librarian Approval**

**Teacher's Aide / Grade Level: 11-12 / Prerequisite: Teacher Approval**

**Office Aide / Grade Level: 11-12 / Prerequisite: Office Approval**

## Dual Enrollment

Students in grades 11-12 who have a GPA of 3.0 or above are eligible to take Dual enrollment classes. DE classes can take the place of graduation requirements. An example of this is DE English 1010 can take the place of English III or English IV. All DE classes are taken at DCHS online with the exception of Math 1710, Math 1720, and Psychology which are taught at the county complex. Students in 11-12 grades are eligible for the state dual enrollment grant. 10<sup>th</sup> grade Gifted students are also able to take DE classes but are not eligible for the state grants. A meeting is held in the spring every year for students and parents who want more information. You can also contact your school counselors.

## Tennessee AP Access for All

Through AP Access for ALL, all advanced placement courses are available to every student enrolled in a participating school district. You can earn college credit & skip introductory college classes, save money, build college skills and confidence, and stand out to colleges. Listed below are the classes that are being offered through AP Access for All the Fall 2022 Semester. Go to <https://tnapaccessforall.org> for prerequisites and additional College Board information.

AP Art History \*GREAT INTRODUCTORY AP COURSE\*  
 AP Biology  
 AP Calculus AB  
 AP Calculus BC  
 AP Computer Science A  
 AP Environmental Science  
 AP Human Geography \*GREAT INTRODUCTORY AP COURSE\*  
 AP Language & Composition  
 AP Macroeconomics  
 AP Microeconomics  
 AP Physics 1  
 AP Psychology \*GREAT INTRODUCTORY AP COURSE\*  
 AP Spanish Language and Culture  
 AP Statistics  
 AP US Government and Politics  
 AP US History  
 AP Literature & Composition

## CAREER AND Technical Education

**Students will need to pick one area to focus in to meet the career Cluster Path graduation requirements. Courses must be taken in order.**

### Business Management & Administrative Career Cluster Courses

**Business Management /Grade Level: 9-12/ Prerequisite: None**

Students in Business Management will develop a foundation in the many activities, problems and decisions that are intrinsic to the management of a successful business, as well as an appreciation for the importance of these responsibilities. Areas to be examined include business organization, ethical and legal responsibilities, communication, decision-making, personnel, safety, professional development and related careers. By gaining an understanding of these areas, students will be better prepared to enhance the business decisions of tomorrow.



**Intro to Business & Marketing /Grade Level: 9-12/Prerequisite: None**

Introduction to Business and Marketing is an introductory course designed to give students an overview of Business Management and Administration, Marketing, and Finance careers. The course helps students prepare for the growing complexities of the business world by examining basic principles, in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communications, mathematics, and economics are reinforced with activities modeled in the context of business topics.

**Business Communications /Grade Level: 9-12/ Prerequisite: None**

Students in Business Communications will develop a foundation in the many activities, problems and decisions that are intrinsic to the communication skills needed in a successful business, as well as an appreciation for the importance of these responsibilities. Students' academic skills in communications are reinforced with activities modeled in the context of business topics.

**Computer Science Foundations/ Grade Level: 9-12 / Prerequisite: None**

This course focuses on the language, structure and essential concepts of page layout and design and the ethics related to internet presentations. Layout and design guidelines will be applied in the design of web pages. Upon completion of course, a student will be able to evaluate, implement and apply the use of technology that will be needed in Coding.

**Coding I /Grade Level: 9-12/ Prerequisite: Computer Science Foundations**

Coding I is a course intended to teach students the basics of computer programming. The course places emphasis on practicing standard programming techniques and learning the logic tools and Page 2 methods typically used by programmers to create simple computer applications. Upon completion of this course, proficient students will be able to solve problems by planning multistep procedures; write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution. Program of Study Application This is the second course in the Coding program of study.

**Coding II /Grade Level: 9-12/ Prerequisite: Computer Science F & Coding I**

Coding II challenges students to develop advanced skills in problem analysis, construction of algorithms, and computer implementation of algorithms as they work on programming projects of Page 2 increased complexity. In so doing, they develop key skills of discernment and judgment as they must choose from among many languages, development environments, and strategies for the program life cycle. Course content is reinforced through numerous short- and long-term programming projects, accomplished both individually and in small groups. These projects are meant to hone the discipline and logical thinking skills necessary to craft error-free syntax for the writing and testing of programs. Upon completion of this course, proficient students will demonstrate an understanding of object-oriented programming language using high-level languages such as FOCUS, Python, or SAS.

**Human Services Career Cluster Courses****Introduction to Human Services / Grade Level: 9-11**

This is a foundational course for students interested in becoming a public advocate, social worker, dietician, nutritionist, counselor, or community volunteer. This course covers the history of counseling, career investigation, stress management, mental illness, communication, and the counseling process. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study. Standards in the course are aligned with Tennessee Common Core State Standards for English Language & Literacy in Technical Subjects, as well as the Tennessee Psychology and Sociology standards, and the National Standards for Family and Consumer Sciences Education.

### **Lifespan Development / Grade Level: 9-12**

Child and Lifespan Development is a specialized course that prepares students to understand the physical, social, emotional, and intellectual growth and development from conception through death. The course is designed to help young people acquire knowledge and skills essential to the care and guidance of children as a parent or caregiver. Emphasis is on helping students create an environment for children that will promote optimum development. Experiences such, as laboratory observations, job shadowing, or laboratory participation may be included if opportunities are available.

### **Family Studies / Grade Level: 9-12**

This is the final course for students interested in becoming a public advocate, social worker, dietician, nutritionist, counselor, or community volunteer. The course is designed to help young people acquire knowledge and skills essential to working with families. Experiences such, as laboratory observations, job shadowing, or laboratory participation may be included if opportunities are available.

### **Teaching as a Profession I / Grade Level: 9-12**

Teaching as a Profession is a course designed to capture the interest of secondary students as potential teachers, introduce students to teaching as a profession, and foster respect for the teaching profession. Students will gain knowledge and skills that will establish a foundation for a successful pathway to a Teaching career. Content standards guide students to discover challenges, opportunities, and rewards of a teaching career. Content includes history and current issues of education; teacher roles, responsibilities, and characteristics; Self-exploration and understanding; the teacher and learning processes; human growth and development; teaching career opportunities and preparation; and components of instruction. Students will learn through classroom observations and experiences, student organization activities, and the development of a professional portfolio.

### **Teaching as a Profession II / Grade Level: 10-12**

Teaching as a Profession is a course designed to capture the interest of secondary students as potential teachers, introduce students to teaching as a profession, and foster respect for the teaching profession. Students will gain knowledge and skills that will establish a foundation for a successful pathway to a Teaching career. Content standards guide students to discover challenges, opportunities, and rewards of a teaching career. Content includes history and current issues of education; teacher roles, responsibilities, and characteristics; Self-exploration and understanding; the teacher and learning processes; human growth and development; Teaching career opportunities and preparation; and components of instruction. Students will learn through classroom observations and experiences, student organization activities, and the development of a professional portfolio.

### **Teaching as a Profession III: Practicum / Grade Level: 11-12**

Teaching as a Profession is a course designed to capture the interest of secondary students as potential teachers, introduce students to teaching as a profession, and foster respect for the teaching profession. Students will gain knowledge and skills that will establish a foundation for a successful pathway to Teaching career. Content standards guide students to discover challenges, opportunities, and rewards of a teaching career. Content includes history and current issues of education; teacher roles, responsibilities, and characteristics; Self-exploration and understanding; the teacher and learning processes; human growth and development; teaching career opportunities and preparation; and components of instruction. Students will learn through classroom observations and experiences, student organization activities, and the development of a professional portfolio.

**Culinary Arts I / Grade Level: 9-12 / Prerequisite: None**

This course, which is the first level of Culinary Arts, prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to acquire marketable skills by examining both the industry and its career opportunities, and by developing food prep and service and interpersonal skills. Lab facilities and experiences, which simulate commercial food production and services operations, offer school-based learning opportunities.

**Culinary Arts II (A & B) / Grade Level: 10-12 / Prerequisite: Culinary Arts I**

This course, which is the second level of Culinary Arts, prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to acquire marketable skills by demonstrating the safety and sanitation, food prep skills and teamwork to manage and environment conducive to quality food production and service operations. Lab facilities and experiences, which simulate commercial food production and services operations, offer school-based learning opportunities.

**Culinary Arts III (A & B) / Grade Level: 11-12 / Prerequisite: Culinary Arts I & II**

This course, which is the third level of Culinary Arts, serves as a capstone course. It too prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to apply the marketable culinary art skills they have acquired by assuming increased responsible positions including participation in a cooperative education experience.

**Culinary Arts IV (A & B) / Grade Level: 11-12 / Prerequisite: Culinary Arts I & II & III**

This course, which is the fourth level of Culinary Arts, serves as a capstone course. It too prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to apply the marketable culinary art skills they have acquired by assuming increased responsible positions including participation in a cooperative education experience.

**Cosmetology I / Grade Level: 11-12 / Prerequisite: None**

Cosmetology I is the foundational course in the Human Services career cluster for students interested in learning more about becoming a cosmetologist. Upon completion of this course, proficient students will gain knowledge in the fundamental skills in both theory and practical applications of cosmetology practices. Laboratory facilities and experiences simulate those found in the cosmetology industry. Upon completion and acquisition of 1500 hours, students are eligible to take the Tennessee Board of Cosmetology Examination to attain a Tennessee Cosmetology License. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses.

**Cosmetology II / Grade Level: 11-12 / Prerequisite: Cosmetology I**

Cosmetology II is the second course in the Cosmetology program of study intended to prepare students for careers in cosmetology by developing an understanding of efficient and safe work practices, nail procedures, hair design, and chemical services. Students will gain experience in practical applications of cosmetology practices. Laboratory facilities and experiences simulate those found in the cosmetology industry. Upon completion and acquisition of 1500 hours, students are eligible to take the Tennessee Board of Cosmetology Examination to attain a Tennessee Cosmetology License. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses.

**Cosmetology III / Grade Level: 11-12 / Prerequisite: Cosmetology II**

Cosmetology III is the third course in the Cosmetology program of study intended to prepare students for careers in cosmetology by developing an understanding of efficient and safe work practices, salon business concepts and operations, advanced hair techniques and chemical services, and facial and skin care procedures. Students will gain experience in practical applications of cosmetology practices. Laboratory facilities and experiences simulate those found in the cosmetology industry. Upon completion and acquisition of 1500 hours, students are eligible to take the Tennessee Board of Cosmetology Examination to attain a Tennessee Cosmetology License. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses.

**Health Science Education Career Cluster Courses****Health Science Education / Grade Level: 9-10/ Prerequisite: None**

The course will include basic health care information on services/products related to the health of people or animals. Subject matter will include career choices, skill development, and application of health concepts relative to becoming a health care professional.

**Diagnostic Medicine / Grade Level: 9-12 / Prerequisite: Health Sci. Ed.** The student will learn the ways diagnostic medicine creates a picture of an individual's health at a single point in time. This could include but is not limited to cardiology, imaging, medical laboratory, radiology, and other forms of diagnostic medicine.

**Medical Therapeutics / Grade Level: 9-12 / Prerequisite: Health Sci. Ed**

*Medical Therapeutics* is an applied course designed to prepare students to pursue careers in therapeutic services. Upon completion of this course, a proficient student will be able to identify careers in therapeutics services; assess, monitor, evaluate, and report patient/client health status; and identify the purpose and components of treatments. The student will incorporate communication, goal setting, and information collection skills to be successful in the workplace. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects, Partnership for 21st Century Skills Framework for 21st Century Learning, as well as Tennessee Anatomy and Physiology standards.

**Anatomy & Physiology A & B / Grade Level: 10-12 / Prerequisite: Biology**

Anatomy and Physiology is a course in which students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A workable knowledge of medical terminology will be demonstrated. Must take both A & B.

**Rehabilitation Careers / Grade Level: 9-12 / Prerequisite: Health Sci. Ed.**

Rehabilitation Careers is an applied course designed to prepare students to pursue careers in rehabilitation services. Upon completion of this course, a proficient student will be able to identify careers in rehabilitation services, recognize diseases, disorders or injuries related to rehabilitation services and correlate the related anatomy and physiology then develop a plan of treatment with appropriate modalities.

**Clinical Internship/WBL / Grade Level: 11-12/ Prerequisite(s): HSE, Medical Therapeutics or Diagnostic Meds, Anatomy & Physiology (pre or co-requisite).**

Clinical Internship is a capstone course and work-based learning experience designed to provide students with real-world application of skills and knowledge obtained in a pre-requisite Health Science course. Upon completion of this course, proficient students will be able to pursue certification in the pre-requisite course of Cardiovascular Services, Exercise Physiology, Medical Therapeutics or Pharmacological Science. Prior to beginning work at a clinical site, students must be certified in Basic Life Support (BLS) Cardiopulmonary Resuscitation (CPR), and deemed competent in basic first aid, body mechanics, Standard Precaution guidelines, and confidentiality.

## **Agriculture, Food & Natural Career Cluster Courses**

**Agriscience / Grade Level: 9-12/ Prerequisite: None**

Fundamentals of Agriculture is designed to develop the basic theories and principles involved in animal science, agribusiness, agricultural mechanics, and natural resource management. The standards prepare students to choose among agricultural careers for the 21st century.

**Small Animal Science / Grade Level: 9-12 / Prerequisite: Agriscience.**

Small Animal Science is an applied course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of small animals, as well as careers, leadership, and history of the industry.

**Large Animal Science / Grade Level: 9-12/ Prerequisite: Agriscience**

Large Animal Science is an applied course in veterinary and animal science for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of large animals, as well as careers, leadership, and history of the industry.

**Greenhouse Management / Grade Level: 9-12 / Prerequisite: Agriscience**

Greenhouse Management is an applied-knowledge course designed to prepare students to manage greenhouse operations. This course covers principles of greenhouse structures, plant health and growth, growing media, greenhouse crop selection and propagation, and management techniques. Upon completion of this course, proficient students will be equipped with the technical knowledge Page 2 and skills needed to prepare for further education and careers in horticulture production. Greenhouse Management is a dual credit course with statewide articulation.

**Landscaping & Turf Science / Grade Level: 9-12 / Prerequisite: Agriscience**

Landscaping and Turf Science is an applied course designed to provide challenging academic standards and relevant technical knowledge and skills needed for further education and careers in landscape Page 2 design, maintenance, and turf management. Content includes site analysis and planning, principles of design, and plant selection and care techniques. Upon completion of this course, proficient students will be prepared to pursue advanced study of landscaping and turf science at a postsecondary institution.

## Transportation, Distribution & Logistics Career Cluster Courses

### **Maintenance & Light Repair I / Grade Level: 9-10 / Prerequisite: None**

The Transportation Core course prepares students for entry into all subsequent transportation courses. Students explore career opportunities and requirements of a professional service technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, and basic technician skills. Upon completion, students may enter automotive service technology, diesel equipment maintenance technology, leisure craft service technology, collision repair and refinish technology, or aviation maintenance.

### **Maintenance & Light Repair II A & B / Grade Level: 10-12 / Prerequisite: Maint/Repair I. Concurrent: Algebra I & Physical Science.**

Automotive: Brake Systems course offers training in the diagnosis and repair of hydraulic, mechanical, and electrical systems used in standard and anti-lock brake systems. Course content includes diagnosis, repair, and/or service technology of hydraulic and antilock brake systems to original equipment manufacture (OEM) specifications. Educational experiences simulate automotive service industry operations through training aids, laboratory facilities, and school-based learning opportunities.

### **Maintenance & Light Repair III A & B / Grade Level: 11-12/ Prerequisite: Trans. Core. Algebra I & Physical Science**

Automotive: Engine Performance is a course that prepares students for entry-level positions or advanced training in engine performance. The course covers electronic ignition and distributor ignition systems, fuel management, exhaust emission control, and computer input and output signals and will identify the different types of sensors used by automotive engine computers. Students will perform inspections, tests, and measurements for diagnosis and perform needed repairs. Education and experiences simulate automotive service industry operations through the use of training aids and modules and offer school-based learning opportunities.

### **Maintenance & Light Repair IV A & B / Grade Level: 11-12/ Prerequisite: Trans. Core. Algebra I & Physical Science**

Automotive: Engine Performance is a course that prepares students for entry-level positions or advanced training in engine performance. The course covers electronic ignition and distributor ignition systems, fuel management, exhaust emission control, and computer input and output signals and will identify the different types of sensors used by automotive engine computers. Students will perform inspections, tests, and measurements for diagnosis and perform needed repairs. Education and experiences simulate automotive service industry operations through the use of training aids and modules and offer school-based learning opportunities.

## Architecture & Construction Career Cluster Courses

### **Fundamentals of Construction / Grade Level: 9-10 / Prerequisite: None**

Fundamentals of Construction is a foundational course in the Architecture & Construction cluster covering essential knowledge, skills, and concepts required for careers in construction. Upon completion of this course, proficient students will be able to describe various construction fields and outline the steps necessary to advance in specific construction careers. Students will be able to employ tools safely and interpret construction drawings to complete projects demonstrating proper measurement and application of mathematical concepts. Standards in this course also include an overview of the construction industry and an introduction to building systems and materials. Students will begin compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in their selected program of study.

**Residential & Commercial Construction I A & B / Grade Level: 10-12 / Prerequisite: Fund. Of Con**

Residential & Commercial Construction I is the second course in the Residential & Commercial Construction program of study intended to prepare students for careers in construction by developing an understanding of the different phases of a construction project from start to finish. Upon completion of this course, proficient students will be able to demonstrate knowledge and skill in the earlier phases of building construction, including site layout, foundation systems, concrete, framing systems, and electrical systems. Students will be able to perform concrete work; frame walls, ceilings, and floors of a structure; and install proper wiring while safely employing tools and interpreting construction drawings to complete projects. Emphasis is placed on demonstrating proper measurement and application of mathematical concepts. Standards in this course also include principles of the construction industry and business and project management. Students will continue compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in this program of study. Full year course.

**Residential & Commercial Construction II A & B Practicum / Grade Level: 11-12 / Prerequisite: Fund. Of Con & Residential & Commercial Construction I A & B.**

Residential & Commercial Construction II is the third course in the Residential & Commercial Construction program of study intended to prepare students for careers in construction by developing an understanding of the different phases of a construction project from start to finish. Upon completion of this course, proficient students will be able to demonstrate knowledge and skill in the later phases of building construction including roofing systems, exterior finishing, stair framing systems, masonry systems, and plumbing systems. Students will be able to perform masonry work; frame roofs; install shingles on roofs; apply exterior finishes; and install proper piping for plumbing systems while safely employing tools and interpreting construction drawings to complete projects. Emphasis is placed on demonstrating proper measurement and application of mathematical concepts. Standards in this course also include an introduction to heating, ventilation, and air conditioning systems, principles of the construction industry, and business and project management. Students will continue compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in this program of study. This is a full year class. This class can be taken for college credit.

## **Manufacturing Career Cluster Courses**

**Principles of Machining I / Grade Level: 9-10 / Prerequisite: None**

Principles of Machining I is designed to provide students with the skills and knowledge to be effective in production environments as a machinist, CNC operator, or supervisor. Proficient students will demonstrate safety practices concerning machining technology, proper measurement and layout techniques, reading and interpreting drawings and blueprints, production design processes, and quality control procedures. Upon completion of this course, students will be knowledgeable about potential postsecondary education and career opportunities related to machining technology and will be prepared to enroll in more advanced machining courses in high school.

**Principles of Machining II A & B /Grade Level: 10-12/ Prerequisite: Algebra I/ This is a full year course both A & B must be taken in same year.**

Principles of Machining II is an advanced level contextual course that builds on the introductory skills learned in the entry-level manufacturing and machining courses, stressing the concepts and practices in a production environment supported by advanced machining and engineering facilities. Working with the course instructor and team members in a cooperative learning environment, students will design, produce, and maintain products that are defined by detailed technical specifications. Emphasis is placed on quality control, safety and engineering codes and standards, and production-grade machining systems, building on the learner's past knowledge, current experiences, and future conduct as a career machinist. Students will 1) examine blueprints and specification drawings to plan and implement the manufacture of products, 2) machine parts to specifications using both manual and computer-controlled machine tools, and 3) measure, examine, and test completed products to check for defects and conformance to specifications.

**Manufacturing Practicum A & B /Grade Level: 11-12/Prerequisites: POM I, POM II A & B/This is a full year course both A & B must be taken in same year.**

Manufacturing Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Advanced Manufacturing courses within a professional, working environment. While continuing to add to their technical skillsets, students in this course assume increasing responsibility for overseeing manufacturing processes and managing complex projects. Specifically, proficient students will be able to work in teams to plan the production of a sophisticated product; develop troubleshooting and problem solving mechanisms to ensure that projects run smoothly; analyze output and compile professional reports; and connect practicum activities to career and postsecondary opportunities. Upon completion of the practicum, proficient students will be prepared for postsecondary study and career advancement in their chosen focus area. This class can be taken for college credit.

**Principals of Manufacturing:/ Grade Level: 9-10/ Prerequisite: None**

In order to gain a holistic view of the advanced manufacturing industry, students will complete all core standards, as well as standards in two focus areas. Throughout the course, they will develop an understanding of the general steps involved in the manufacturing process and master the essential skills to be an effective team member in a manufacturing production setting. Course content covers basic quality principles and processes, blueprints and schematics, and systems. Upon completion of this course, proficient students will advance from this course with a nuanced understanding of how manufacturing combines design and engineering, materials science, process technology, and quality.

**Digital Electronics:/ Grade Level: 9-12/ Prerequisite: Principals of Manufacturing**

Digital Electronics is intended to provide students with an introduction to the basic components of digital electronic systems and equip them with the ability to use these components to design more complex digital systems. Proficient students will be able to (1) describe basic functions of digital components (including gates, flip flops, counters, and other devices upon which larger systems are designed), (2) use these devices as building blocks to design larger, more complex circuits, (3) implement these circuits using programmable devices, and (4) effectively communicate designs and systems. Students develop additional skill in technical documentation when operating and troubleshooting circuits. Upon completion of the Digital Electronics course, proficient students will be able to design a complex digital system and communicate their designs through a variety of media.



**Robotics & Automated Systems: / Grade Level: 9-12/ Prerequisite: Prin. Of Manuf & Digital Electronics**

Robotics & Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in industry. Upon completion of this course, proficient students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems.

**Criminal Justice & Corrections**

**Criminal Justice I: / Grade Level: 9-12/ Prerequisite: None**

Criminal Justice I is the first course in Criminal Justice and Correction Services program of study. It serves as a comprehensive survey of how the law enforcement, legal, and correctional systems interact with each other in the United States. Upon completion of this course, proficient students will understand the context of local, state, and federal laws, the concepts of crime control and the judicial process, and the importance of communications and professionalism in law enforcement.

**Criminal Justice II: / Grade Level: 9-12/ Prerequisite: Criminal justice I**

Criminal Justice II is the second course in the Criminal Justice and Correction Services program of study. Upon completion of this course, proficient students will understand the impact of the constitution on law enforcement, law enforcement and police procedures, alcohol and beverage laws, sentencing, and the importance of communications and professionalism in law enforcement.

**SDC Criminal Justice III: Investigations / Grade Level:10-12/ Prerequisite: Criminal justice I & II**

Forensic Criminal Investigations is the third course designed to equip students with the knowledge and skills to be successful in the sciences of criminal investigations. Students will learn terminology and investigation skills related to the crime scene, aspects of criminal behavior, and applications of the scientific inquiry to solve crimes. By utilizing the scientific inquiry method, students will obtain and analyze evidence through simulated crime scenes and evaluation of case studies. Upon completion of this course, proficient students will be able to identify careers forensic science and criminology, summarize the laws that govern the application of forensic science, and draw key connections between the history of the forensic science system and the modern legal system. This class can be taken for college credit.

**Work-Based Learning**

**Work-based Learning: Applications / Grade Level: 11-12/ Prerequisite: CTE Director Approval**

Work-Based Learning: Career Practicum is a capstone course intended to provide students with opportunities to apply the skills and knowledge learned in previous CTE and general education courses within a professional work environment. The course allows students to earn high school credit for select models of work-based learning, which allow students to interact with industry professionals in order to extend and deepen classroom work and support the development of postsecondary and career readiness knowledge and skills.

## Money Information

### Tennessee Hope Scholarship

Award amount- \$4,000 for 4-year institutions; \$2,000 for 2-year institutions (not to exceed cost of attendance)

- Entering freshman must have a minimum of a 21 ACT (980 SAT) **OR**
- Overall unweighted minimum 3.0 grade point average (GPA)
- Home School graduates - minimum 21 ACT (980 SAT)
- GED Applications - minimum 525 and 21 ACT (980 SAT)

### All Tennessee Education Lottery Scholarship Program Recipients Must:

- Have been a Tennessee resident for one year by September 1 of Senior year.
- Students must be admitted to and enrolled at least half time in an eligible Tennessee postsecondary institution no later than 16 months following graduation from high school, home school, or GED Program.
- Dependent children of U.S. military, Tennessee National Guard on active duty, or Department of Defense employees, who maintain Tennessee residency while stationed out-of-state are eligible.
- Apply with the Free Application for Federal Student Aid (FAFSA), available at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). To receive a paper FAFSA, check with your high school or call the Tennessee Student Assistance Corporation (TSAC) 1-800-342-1663 or (615) 741-1346. Applications must be received by September 1<sup>st</sup> for spring and summer semesters. Early application is recommended.
- Be enrolled at least 6 hours.

### HOPE Scholars Must:

- Enroll in one of the Tennessee public colleges, universities, or private colleges eligible for scholarship money. A list of eligible schools can be found at [www.collegepaystn.com](http://www.collegepaystn.com)
- Enroll within 16 months of high school graduation or completion of a home school or GED program.
- Home school students must have been enrolled in an accredited home school program for a minimum of two years prior to graduating.
- Tennessee resident's graduation from some out of state high schools may be eligible. For more information please visit the college pays website, [www.collegepaystn.com](http://www.collegepaystn.com)

## Scholastic Information

### **Top Rank**

- To be considered for Top Rank, students must earn a total of 10 honors, AP, or dual enrollment classes **AND**
- Have at least a 21 ACT composite score. Students must meet the 21 ACT composite requirements no later than the December of senior year ACT. DCHS ranks in early February.

### **Distinction**

DCHS will recognize students on awards day as graduating with distinction if they have or are working on:

1. Earned a nationally recognized industry certification
2. Participated in at least one of the Governor's Schools
3. Participated in one of the state's All State Musical Organizations.
4. Been selected as a National Merit Finalist or Semi-Finalist
5. Attained a composite score of 31 or higher on the ACT
6. Attained a score of 3 or higher on at least two Advanced Placement (AP) exams.
7. Earned 12 or more semester hours of postsecondary (dual enrollment credit).

### **Honors**

DCHS will recognize students on awards day as graduating with honors if they have met all ACT College Readiness Benchmarks by taking the ACT or SAT.

- English - 18
- Reading - 22
- Math - 22
- Science - 23