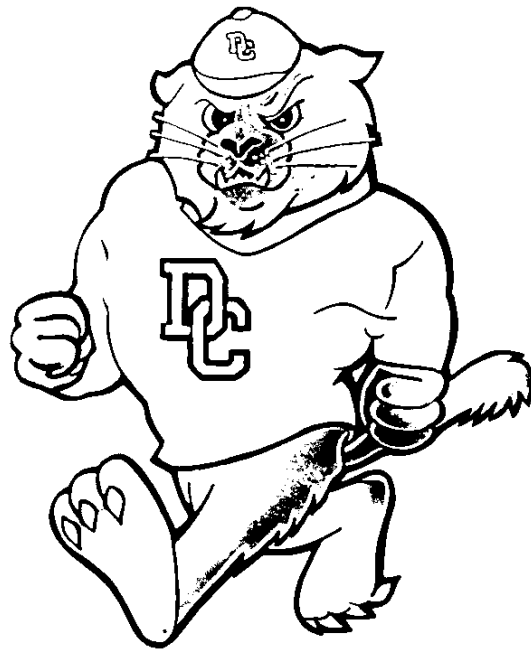


DICKSON COUNTY HIGH SCHOOL

COUGAR COURSE CATALOG

2010 - 2011

GRADES 11 - 12



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INTRODUCTION

The Dickson County High School Program of Studies contains information regarding course offerings, recommended course sequence, policies, requirements, and services. This information has been prepared to enable students and parents to make informed career decisions and to prepare for the lifelong career decision-making process. Course offerings are contingent on the number of students registering for a course, budget considerations, and teacher assignments.

A strong high school background is essential for continued success in the workplace or in post-secondary studies. In selecting a program of studies, students should recognize that employment and college admissions are highly competitive. Rigor of curriculum, grade-point average, class rank, attendance, and standardized test scores are crucial factors in decisions made by employers and college admissions personnel. Therefore, it is advantageous for students to select a challenging program of studies consistent with career goals and post-secondary plans.

NON-DISCRIMINATION

It is the policy of Dickson County High School not to discriminate on the basis of sex, race, or handicaps when planning its educational program.

ACCREDITATION

Dickson County High School is accredited by the Tennessee State Department of Education and the Southern Association of Colleges and Schools.

POLICIES

Four-Year Plan

The High School Policy has changed the way students plan for their four years of high school education. It is a requirement of the Education Improvement Act that students, their parents/guardians and school counselor or designated person develop a four-year plan to help students reach their educational goals. Students must pursue a focused program of study preparing them for post-secondary study in either university or technical training. Students' four-year plans are outlined at the end of their eighth-grade year. The four-year plan is reviewed annually. The course request form (registration) is used as the annual review of the four-year plan. It is especially important that a path is selected by the end of tenth grade so that students can concentrate on a career path (Tech Prep or University) as they enter the eleventh grade.

Procedures for Enrollment

After you and your parents have selected courses, secure your parents' signature on the course request form. This form will serve as a 4-year plan for all students. **It is important** that you complete all the information on the course request form and return it to the Counselor's Office for advisement on your selections. **It is also important** to follow all directions in the Program of Studies as well as the instructions given by your counselor or homeroom teacher during registration.

Students who are late, do not properly enroll, do not get appropriate signatures or those who are negligent in enrolling cannot expect to have a very wide selection of courses. **All students who do not enroll properly or fail to turn enrollment information in by the due dates will be enrolled by a counselor.**

The entire teacher master schedule is developed from the number of students who have requested specific courses. Make certain that your course request form is filled out with a purpose and you have selected the classes that you need and want.

Course Verification

After Registration and before the end of the current school year, each student shall receive a course verification form which shows the courses selected. Parents and students are asked to review the form and make any changes or corrections and return to DCHS by **4/30/10**. Corrections and changes may be made by completing a schedule change request form.

General Registration

- All students **must** list alternative courses on their course request form. Alternates will be used in case of a scheduling conflict.
- Students who take courses from Tennessee Technology Center **cannot** take a physical education class or a study hall.
- A student may take two English courses during the same year only if *repeating* one of the courses.
- A student *may not* request that a study hall be scheduled for a particular period.
- A student *may not* request a transfer from one teacher to another.

- Each student must carry a minimum of six credits. A student must be scheduled for seven periods per day.
- A student enrolled in football or basketball must carry an seven-credit load.
- A student taking Clinical Internship may not take a non-credit class.
- A student who retakes a course cannot receive credit the second time.
- A student must be enrolled in a math course through the junior year even if three credits in math have already been earned.
- A student may enroll in two math classes per year **only** with the approval of a counselor.

Post Registration

During the summer, the Counseling Department will review course failures and adjust students' schedules as needed. An elective course will be dropped to add a required course. Prerequisites will be checked and changes may be made to meet prerequisite requirements.

SCHEDULE CHANGE DEADLINE: FRIDAY, APRIL 30, 2010

REQUESTS FOR SCHEDULE CHANGES

Changes are made in compliance with the following deadlines:

- **Drop Course Deadline:** A student registered for seven credits may drop a course and replace it with study hall. This **drop-course deadline** is **fifteen days** into the school year. There will NOT be a time for schedule changes. A student must request such a change by seeing a counselor before that date. A student withdrawn from a class after this deadline due to disciplinary reasons will receive a failing grade for the course.

ACADEMIC HEARING

If a parent and student want to appeal course placement based on a DCHS prerequisite, a request for an academic hearing must be arranged and held with the counseling department within the **first ten days** of the school year.

CALCULATION OF GPA

All GPAs will be calculated on a 4.0 system. For purposes of determining class rank, a numerical average of grades will be used. All grades earned in 9, 10, 11, and first term of 12th grade will be counted toward the grade-point average used to determine class rank.

Framework of Standards for Honors Courses: Honors courses will **substantially** exceed the content standards, learning expectations, and performance indicators approved by the State Board of Education. All honors courses must include multiple assessments exemplifying coursework (such as short answer, constructed-response prompts, performance-based tasks, open-ended questions, essays, original or creative interpretations, authentic products, portfolios, and analytical writing). An honors course shall include a **minimum of five** of the following components:

1. Extended research assignments
2. Research-based writing assignments
3. Projects that apply course curriculum to relevant or real-world situations
4. Open-ended investigations
5. Writing assignments
6. Integration of appropriate technology
7. Deeper exploration of the culture, values, and history of the discipline
8. Extensive opportunities for problem solving experiences
9. Job shadowing experiences

Guidelines: Additional points will be added each grading period and to the term exam grade for these advanced classes. Advanced Placement will receive five (5) points, and Honors will receive three (3) points. Only advanced classes can receive points above 100 for each grading period and for the term-exam grade.

***Asterisk before courses in the Program of Studies indicates advanced status.**

Students registering for Calculus AB may take the Advanced Placement Exam in May. The fee for this exam for the 2010 - 2011 school year will be \$85.00—\$90.00. Students and parents should plan to pay this examination fee. See your counselor if you have questions about the AP program.

GRADUATION REQUIREMENTS

All State of Tennessee and Dickson County graduation requirements must be completed in order to participate in commencement exercises.

To meet state and local requirements for graduation, all students shall have attained an approved attendance, conduct, and subject matter record which covers a planned program of education. The following are also required:

- **ALL** students must pass Math, Language Arts, and Science Gateway Tests.


STATE OF TENNESSEE GRADUATION REQUIREMENTS - HIGH SCHOOL CURRICULUM

Core Curriculum

- 4--units of English I, II, III, IV
- 3--units of Mathematics
- 3--units of Science (must include a life and a physical science)
- 3--units of Social Studies (U.S. Government, Economics, U.S. History, plus 1 unit of World History or World Geography)
- 1--unit of Wellness

Total of above: 14 Core Curriculum Units or Credit

Promotion and Retention

UNIVERSITY PREPARATION PATH	DUAL PREPARATION PATH	TECHNICAL PREPARATION PATH
2 - units same foreign language 1 - unit fine arts 11 - electives Note: mathematics units must include Algebra I, Algebra II, Geometry or Advanced math <p style="text-align: center;">20 units (state)</p>	must complete  requirements for University and Technical path <p style="text-align: center;">21 units (state)</p>	3 - technical major units 1 - technical related unit 10 - electives <p style="text-align: center;">20 units (state)</p>

To be promoted at the end of the school year, a student must have earned the following number of credits:

- ◆ **5 credits to be classified as a sophomore;**
- ◆ **11 credits to be classified as a junior;**
- ◆ **19 credits to be classified as a senior - Class of 2011;**
- ◆ **18 credits to be classified as a senior - Class of 2012;**
- ◆ **24 credits to be classified as a graduate - Class of 2011;**
- ◆ **22 credits to be classified as a graduate - Class of 2012.**

Transfer students should consult their designated counselor.

DICKSON COUNTY HIGH SCHOOL COMPUTER TECHNOLOGY ACCEPTABLE USE POLICY

General Principles:

When a student at Dickson County High School accesses computer systems and networks owned or operated by Dickson County High School/Dickson County Board of Education, he or she assumes certain responsibilities and obligations. All access of this type is subject to school policies and to local, state, and federal laws. Dickson County High School expects that student use of computers provided by this school will be ethical and will reflect academic honesty. Students must demonstrate respect for property, data, system security mechanisms, and rights to privacy.

Guidelines:

As a student, you are expected to make appropriate use of computer resources provided to you by Dickson County High School. You must:

1. Use computer resources only for authorized purposes following established procedures
2. Be responsible for all activities on your assigned computer
3. Access only files and data that are your own, which are publicly available, or to which you have been given authorized access
4. Use only legal versions of copyrighted software. Be considerate in your use of all resources (paper, CD ROM drive, etc.)

Unacceptable:

1. Using another person's password to access computers or files (students who "loan" an account or enable unauthorized access may lose their account privileges)
2. Using another person's files, system, or data without the permission of the instructor
3. Attempting to decode passwords or access control information
4. Attempting to circumvent system security measures. This includes bypassing security blocks to access such sites as *facebook* and/or *myspace*. These sites are **NOT** to be accessed at school.
5. Engaging in any activity that might be harmful to systems or to any information stored thereon, such as creating viruses, damaging or deleting files, changing system settings
6. Making or using illegal copies of copyrighted software, storing such copies on school systems or sending them over networks
7. Altering or changing any computer settings
8. Using e-mail services to harass others or using inappropriate language in e-mail or other electronic messages
9. Wasting computer resources
10. Using profanity, obscenity, pornography or language, which may be offensive to another user
11. Plagiarizing, (taking someone else's words, ideas, or findings and intentionally presenting them as your own without properly giving credit to their source)

DICKSON COUNTY HIGH SCHOOL considers any violation of appropriate use principles or guidelines to be a serious offense and reserves the right to copy and examine any files or information that may suggest that a student is using school computer systems inappropriately. Violators are subject to disciplinary action by school officials.

COURSE OFFERINGS AND DESCRIPTIONS **Grades 9-12**

The following information is provided in this registration guide for every course offered at Dickson County High School:

- | | |
|-----------------------|---|
| 1) Course Title | The official course title used at Dickson County High School |
| 2) Grade Level(s) | Indicates the grade level at which the course is taught |
| 3) Prerequisite(s) | Indicates any requirements that must be met prior to enrollment in the course |
| 4) Credit | Indicates credits awarded toward graduation after successful completion of the course |
| 5) Course Number | A numerical course code used for scheduling and transcript recording purposes |
| 6) Course Description | A brief description of the course |

ART

VISUAL ART I

1 Credit; 9th, 10th, 11th, 12th - Course Number: 411

Art I is a general instructional course in drawing, the use of color media, printmaking, and sculpture. It includes a study of art elements, specific artists, and techniques. **This course satisfies the Fine Arts requirement. Note: The class fee for this course is \$20.00.**

VISUAL ART II

1 Credit; 10th, 11th, 12th - Course Number: 421 - **Prerequisite: VISUAL ART I**

Art II builds on skills and techniques developed in Art I to develop further artistic skills. The course encourages independent study. Students should be talented in art and willing to experiment in new and different techniques and ideas. Exhibit of work in the school art show will be required.

VISUAL ART III/IV

1 Credit; 11th, 12th - Course Number: 431 - **Prerequisite: VISUAL ART II**

Art III is an advanced course with complex projects and independent explorations. New media and techniques will be introduced. Watercolor, acrylics, pen and ink, polymer clay, pastel, and contemporary media will be used. Exhibit of work in the school art show is required. In addition, an individual student show of no less than ten pieces is required to receive course credit.

COMMERCIAL DESIGN (ART II LEVEL-Specialty)

1/2 Credit; 10th, 11th, 12th - Course Number: 422 - **Prerequisite: VISUAL ART I**

A study of the commercial side of art from advertising to gallery sales based around the elements and principles of art. Exhibit of work in the school art show will be required.

THREE-DIMENSIONAL ART with CERAMICS (ART II LEVEL-Specialty)

1 Credit; 10th, 11th, 12th - Course Number: 423 - **Prerequisite: VISUAL ART I**

Three-dimensional art from relief works to free-standing work will be done in various media, such as clay, plaster, cardboard, and paper mache. The history and techniques of the various 3-D media used will be studied. Independent study will be encouraged. Exhibit of work in the school art show will be required.

MIXED MEDIA with PRINTMAKING (ART II LEVEL-SPECIALTY)

1/2 Credit; 10th, 11th, 12th - Course Number: 424 - **Prerequisite: VISUAL ART I**

Mixed Media will explore painting techniques and other two-and-three dimensional works requiring more than one medium. Stained glass mosaics, bookbinding, polymer clay and other media will be used. Printmaking will also encompass a variety of media such as linoleum block, embossing, monoprints, etching, and others. Exhibit of work in the school art show will be required.

ATHLETICS

BASKETBALL

1 Credit; 11th, 12th - graded; Course Number: 532

Prerequisite: Approval of Head Coach (MUST be on school BB team)

This course does not count toward GPA until 11th and 12th grade. Students enrolled in an athletics course cannot take a study hall.

FOOTBALL

1 Credit; 11th, 12th - graded; Course Number: 536

Prerequisite: Approval of Head Coach (MUST be on school FB team)

This course does not count toward GPA until 11th and 12th grade. Students enrolled in an athletics course cannot take a study hall.

ENGLISH - LANGUAGE ARTS

CREATIVE WRITING

1 Credit; 10th, 11th, 12th - Course Number: 154

Creative writing will be an advanced course in writing for the students serious about improving writing skills in such areas as the short story, monologues, one-act plays, novellas, and more complex forms of poetry. **Creative Writing does not fulfill the general English requirement.**

JOURNALISM

1 Credit; 10th, 11th, 12th - Course Number: 156 - **Prerequisite: Intro to Journalism or permission of instructor.**

This course is designed for the editors, staff photographers, writers and business managers of the school publications -- Paw Prints and The Cougar (newspaper and yearbook). **Journalism does not fulfill the general English requirement.**

SPEECH COMMUNICATION I

1/2 Credit - 10th, 11th, 12th - Course Number: 451

This course is designed to improve the communications skills of students. By preparing and presenting speeches to the class, students will gain confidence and improve their organizational skills. In addition to public speaking, students will debate and study mass communication. **This course *does not* satisfy the Fine Arts requirement for university-path students.**

SPEECH COMMUNICATION II

1/2 Credit - 10th, 11th, 12th - Course Number: 452 - **Prerequisite: Speech I (451)**

This course will provide a continuation of the skills learned in Speech Communication I. Students will present a variety of oral presentations to the class. Students will also produce several mass communication projects.

ELEVENTH-GRADE ENGLISH

ENGLISH III (REGULAR)

1 Credit; 11th - Course Number: 132

*ENGLISH III (HONORS)

1 Credit; 11th - Course Number: 134 - **Prerequisite: Grade of B or better in English II Honors or teacher recommendation**

A required summer reading list is supplied, with testing to be conducted early in the course.

TWELFTH-GRADE ENGLISH

ENGLISH IV (REGULAR)

1 Credit; 12th - Course Number: 142

ENGLISH IV (COMMUNICATION FOR LIFE)

1 Credit; 12th - Course Number: 143

Prerequisite: Students must have passed the Gateway Language Arts test.

Communication for Life is a senior English class for Technical path students who plan to attend a technical school or enter the work force after graduation. Students learn and practice reading, writing, listening, and speaking skills essential for success in today's work place.

ENGLISH IV (COMPOSITION)

1 Credit; 12th - Course Number: 145

Prerequisites: Students who have attained at least a B average in English III Regular are eligible for this course.

The course is designed to prepare students not taking honors classes for freshman college English by emphasis on the various modes of composition to teach uses of the language, including vocabulary development, advanced sentence structure, and ACT preparation.

***ENGLISH IV (HONORS)**

1 Credit; 12th - Course Number: 147

Prerequisite: English III Honors with minimum of 3.0 GPA

A required summer reading list is supplied, with testing to be conducted early in the course. The course provides students the opportunity to earn college credit in history while in high school through a dual-credit plan in conjunction with the University of Tennessee at Martin.

FOREIGN LANGUAGES

FRENCH

FRENCH I

1 Credit; 10th, 11th, 12th - Course Number: 181

Throughout this course, listening and speaking skills and importance of proper pronunciation are emphasized, as well as introduction to reading and writing skills. Meaningful activities are designed to lead to a conscious control of the language system and an understanding of the French way of life, attitudes, and customs. Class participation and work outside of class are required.

FRENCH II

1 Credit; 10th, 11th, 12th - Course Number: 182

A brief, basic review of French I begins the continuation of listening and speaking skills in a more sophisticated context. French grammar is covered in more depth. Class participation and work outside of class are required. Reading and writing skills are more heavily emphasized.

***FRENCH III (HONORS)**

1 Credit; 11th, 12th - Course Number: 183

Prerequisite: A or B in French II

This course will revolve around more intense culture, grammar, and conversation. Composition will be heavily emphasized.

***FRENCH IV (HONORS)**

1 Credit; 12th - Course Number: 184

This course focuses on French literature and composition. Grammar is reviewed and conversation is required.

SPANISH

SPANISH I

1 Credit; 10th, 11th, 12th - Course Number: 171

In Spanish I, emphasis is placed on pronunciation, vocabulary, listening comprehension, logic of the language, speaking, reading, writing, grammar, and Hispanic culture. Much drill and practice are offered to the student in class through the use of audio-lingual and audio-visual materials.

SPANISH II

1 Credit; 10th 11th, 12th - Course Number: 172

Spanish II intensifies pronunciation, vocabulary, comprehension, logic of the language, speaking, reading, writing, grammar, and Hispanic culture. This goal is achieved by much drill and practice in class through the use of audio-lingual and audio-visual materials.

***SPANISH III (HONORS)**

1 Credit; 11th, 12th - Course Number: 173

Prerequisite: A or B in Spanish II

Spanish III is a continuation of study and use of the language as a means of communication. The subjunctive is taught to provide fluency in the language. Pronunciation, vocabulary, listening comprehension, logic of the language, reading, writing, and grammar are reviewed. Spanish III is designed for those students who wish to polish fine points of grammar, build vocabulary, and increase fluency.

***SPANISH IV (HONORS)**

1 Credit; 12th - Course Number: 174

Spanish IV is an intensive continuation of the study of grammar and vocabulary. Emphasis is placed on conversational skills. The course is taught in the target language as much as possible. Spanish art, history, and literature are examined in depth.

MATHEMATICS

1. **All students are required to complete three units of mathematics. One of the three must be: Geometry, Technical Geometry, or Algebra II.**
2. **It is strongly recommended that students on the University Path take a math course each year in grades 9 - 12.**
3. **Honors classes include projects, research, and the use of technology.**

ADVANCED ALGEBRA WITH TRIGONOMETRY

1 Credit; 11th, 12th - Course Number: 220

Prerequisite: Algebra II and Geometry;

Recommendation: At least a C average in Algebra II and Geometry; Dual Enrollment is available through Nashville State.

This course strengthens Algebra skills. If taken as a junior, this course prepares a student for pre-calculus; if taken as a senior, this course prepares a student for college-level mathematics. Topics covered include relations and functions, matrix algebra, linear programming, exponents, logarithms, probability and statistics, triangle trigonometry, coordinate geometry, and polynomial functions.

ALGEBRA I

1 Credit: 9th, 10th, 11th, 12th - Course Number: 214

This course is a study of real number systems, linear functions, exponents, radicals, polynomials, graphing, and other topics.

ALGEBRA II (Regular)

1 Credit: 10th, 11th, 12th - Course Number: 215

Prerequisite: Algebra I; Recommendation: Passing score on the Gateway Math Test

This course is designed for those University Path students who do not intend to pursue a major in mathematics, science, nor any major that requires much math.

***AP CALCULUS AB**

1 Credit: 12th - Course Number: 232

Prerequisite: Pre-Calculus

Calculus is the study of limits, the derivative as a slope and as a rate of change, and of the integral all relative to algebraic and transcendental functions. Applications of differentiation and integration, elementary differential equations, and integration techniques are included. Students may choose to qualify for Advanced Placement college credit by satisfactory performance on the College Board exam given in May.

DISCRETE MATHEMATICS

1 Credit: 10th, 11th, 12th - Course Number: 221

Prerequisite: Algebra II

This is a study of data analysis and interpretation, systematic counting, and probability. Other topics include finance, set theory, networking, cryptography, matrices, logic, topology, modular arithmetic, history of mathematics, statistics and sequences.

GATEWAY ALGEBRA

1/2 Credit: 10th, 11th, 12th - Course Number: 204

This course is for students who have not passed the Gateway Mathematics Test. **This course is not a mathematics credit satisfying graduation requirements. It counts as an elective credit.**

GEOMETRY

1 Credit: 10th, 11th, 12th - Course Number: 217

This course is a study of the properties, relationships and geometric modes of thinking concerning one, two, and three dimensional geometric figures.

***PRE-CALCULUS**

1 Credit: 11th, 12th - Course Number: 225

Prerequisite: Algebra II Honors or Adv Algebra with Trig

This course is a college-preparatory course for advanced studies in mathematics.

TECHNICAL GEOMETRY

1 Credit: 11th, 12th - Course Number: 218

Prerequisite: Algebra I or Technical Algebra

This course is for students on the Tech-Prep Path. It is **not** for students on the University Path.

MUSIC

CHORAL AUDITION

1 Credit: 9th, 10th, 11th, 12th - Course Number: 470

Choral Audition is a registration tool to simplify the process of placing students in appropriate choral groups. Choral Audition is required of those students who have not previously been enrolled in Men's Choir, Concert Choir, or Women's Ensemble but desire placement in one of these three. After spring/summer auditions, students will be placed in appropriate choral groups.

Note: Those students in Women's Ensemble, and Concert Choir should register for the choral group currently assigned. After auditions, the director will determine appropriate placement for each student.

CHORUS

1 Credit: 9th, 10th, 11th, 12th - Course Number: 487

Prerequisite: The student must audition to be placed in the course by recommendation of the director.

This course will satisfy the one-credit requirement for a visual or performing art for the college-bound student.

CONCERT BAND (PERCUSSION)

1 Credit: 9th, 10th, 11th, 12th - Course Number: 493

Prerequisite: The student will be placed in the course by recommendation of the director. This course will satisfy the one-credit requirement for a visual or performing art for the college-bound student.

The purpose of this course is to provide musical enrichment for students. The band will study literature from all eras and provide opportunities for students to improve skills necessary to perform in the symphonic band. The band will perform at festivals, public concerts, and other events requiring instrumental ensembles. Members of this group also participate in marching band. Fees will be charged for summer band camp, symphonic band camp, and trips.

CONCERT CHOIR

1 Credit: 10th, 11th, 12th - Course Number: 485

Prerequisite: The student must audition and be placed in the course by recommendation of the director.

Concert Choir will practice advanced techniques in vocal training, performing literature of the highest quality for mixed chorus that is both progressive and challenging. In addition to vocal training, the student will also gain strong music reading and listening skills. Concert choir will perform numerous concerts throughout the year and at least one choral festival on the local, regional, state national, or international level. Enrollment in Concert Choir will enable the student to audition for Beautyshop Revue, Barbershop Revue, and/or Chamber Singers.

Enrollment in Concert Choir will also enable the student to audition for the Tennessee Mid-State Choir and The Tennessee All-State Choir. **This course will satisfy the one-credit requirement for a visual or performing art for the college-bound student.**

GENERAL MUSIC

1 Credit; 9th, 10th, 11th, 12th - Course Number: 472

General Music is designed for the student who has always wanted to learn to read music but has not had the opportunity to do so. The course will cover basic musical terms, music notation and a brief introduction to the history of music. Students will have a chance to apply the knowledge to the piano. **This course will satisfy the one-credit requirement for a visual or performing art for the college-bound student.**

SYMPHONIC BAND

1 Credit: 9th, 10th, 11th, 12th - Course Number: 491

Prerequisite: Students will be placed in the course by recommendation of the director.

The purpose of this course is to provide musical enrichment for students. The band will study literature from all eras and provide advanced students with the skills necessary to perform at the college level. The band will perform at festivals, public concerts, and other events requiring instrumental ensembles. Members of this group also participate in marching band. Fees will be charged for summer band camp, symphonic band camp, and trips. **This course will satisfy the one-credit requirement for a visual or performing art for the college-bound student.**

MUSIC THEORY AND HARMONY

1 Credit: 10th, 11th, 12th - Course Number: 473

Prerequisite: At least two years of any of the following: band, concert choir, piano, or written recommendation from the instructor.

This course explores the advanced levels of music theory and surveys the history of music from the middle ages to the present.

WOMEN'S ENSEMBLE

1 Credit: 9th, 10th, 11th, 12th - Course Number: 483

Prerequisites: Students must audition to be placed in the course by recommendation of the director.

Women's Ensemble is designed to develop and refine the individual voice through the performance of literature specifically written for female choral ensembles. **This course will satisfy the one-credit requirement for a visual or performing art for the college-bound student.**

NON-CREDIT COURSES

STUDY HALL (one semester)

0 Credit -- 9th, 10th, 11th, 12th - Course Number: 001

STUDY HALL (one year)

0 Credit -- 9th, 10th, 11th, 12th - Course Number: 002

SCIENCE

Note: Three courses of science are required for high school graduation, one of which must be Biology I. One must be a physical science, chosen from the following: Environmental Science, Physical Science, Earth Science, Geology, Chemistry I, Physics.

ANATOMY AND PHYSIOLOGY

1 Credit: 11th, 12th - Course Number: 612

Prerequisites: Biology and Chemistry

This course will introduce students to parts and systems of the body, their normal processes, and descriptions in function. This class should be taken with, or in addition to, any of the other health science electives. **This course will satisfy credit in science or serve as a vocational credit. Note: The class fee for this course is \$25.00.**

***BIOLOGY II (HONORS)**

1 Credit; 12th - Course Number: 276

Prerequisites: Biology AND Chemistry

Biology II is designed to bridge the gap between high school and college biology. The course is a continuation of Biology with added emphasis on vertebrate dissection and plant/animal physiology. Labs will be carried out to reinforce the lecture material. Individual research projects will be encouraged.

***CHEMISTRY (HONORS)**

1 Credit; 11th - Course Number: 272

Prerequisite: Algebra II Reg or Alg II Honors with a grade of C or better. A grade of B or better is recommended.

This course is designed for students who are interested in science or health field careers. A math-intensive course which also emphasizes higher-order thinking skills, this class also provides excellent preparation for most college work. A challenging course, it provides a general survey of chemistry with emphasis on problem-solving and reasoning skills. Course topics include: electron configuration; periodic properties of elements; stoichiometry; properties of gases, liquids, solids, and solutions; and acid-base equilibrium. A working knowledge of mathematics is essential. **A research paper or a science fair project is required.**

CHEMISTRY (REGULAR)

1 Credit; 11th, 12th - Course Number: 271

Prerequisite: Algebra I; Recommended Prerequisite: Passing score on the Alg I Gateway

This course attempts to familiarize the student with general chemical principles in an easier and slower fashion than Honors Chemistry. Problem-solving and reasoning skills are still emphasized, and a good working knowledge of fundamental algebra is essential. Laboratory work will develop observational and interpretation skills.

EARTH SCIENCE

1 Credit; 10th, 11th, 12th - Course Number: 252

This course is designed as a regular-level science course that can be taken by students wanting to fulfill their high school science requirement. It is divided between studies of geology, weather, and astronomy. The course level is the same as Regular Biology.

ECOLOGY

1 Credit; 11th, 12th - Course Number: 268

Prerequisite: Biology & either Physical Science, Chemistry or Physics

Students will learn the various interactions between organisms and their living and non-living environment. This will include the particulars of all the major biomes of the world. Emphasis will be placed on how these biomes work and the impact man has on them.

PHYSICAL WORLD CONCEPTS1 Credit; 10th, 11th, 12th - Course Number: 280

Recommended co-requisite: Algebra I

Conceptual Physics is a laboratory science course that explores the relationship between matter and energy. Topics will include mechanics, thermodynamics, waves, optics, electricity, magnetism, and nuclear science.

***PHYSICS (HONORS)**

1 Credit; 12th - Course Number: 281

Prerequisite: Honors Chemistry and Algebra II or approval of instructor

This course is designed as a follow up to Honors Chemistry for students planning to continue a science curriculum in college. It provides a general survey of physics including mechanical physics, energy, light, sound, and nuclear physics. Emphasis is placed on mathematical problem-solving in the analysis of observed physical phenomena.

SOCIAL STUDIES

SERVICE LEARNING: YOUTH LEADERSHIP

1 Credit: 11th, 12th - Course Number: 305

Placement in this course is determined by the Youth Leadership Committee. Students who register for this course **must** list an alternative. The course content includes guest speakers, case studies, and trips to local businesses and government offices. Analysis and discussion are emphasized through study of the Dickson County community.

CONTEMPORARY ISSUES

1 Credit: 11th, 12th - Course Number: 304

This course involves the student in a study of social, economic, political, cultural, and environmental questions and concerns in the United States and the world. At the conclusion of the course students will understand and be able to make decisions about various issues that affect their lives.

ECONOMICS

½ Credit: 12th - Course number: 323

This course is a study of the market economy and the modified free enterprise system. Emphasis will be placed on the role of government and the individual in the system. Economic systems, supply and demand, business cycles, money, labor, government intervention, problems of scarcity, and international economics are some of the topics covered.

***ECONOMICS (HONORS)**

½ Credit: 12th - Course Number: 324 - **Prerequisite: Must have 3.0 GPA**

This course is open to seniors who desire a more challenging study in the social sciences. The same fundamental concepts will be covered as in the regular course but with less emphasis on consumer economics and more emphasis on economic principles and expanding skills in this area. Students will be required to work beyond the classroom analyzing economic case studies, researching current issues, and participating in simulations.

GOVERNMENT (UNITED STATES)

½ Credit: 12th - Course Number: 321

United States Government provides a study of state and local government as well as a study of our national government. Emphasis is on the principles, processes, powers, and the people that comprise the three branches of government. Current political situations, events, and issues along with historical examples provide focus for discussion.

***GOVERNMENT (HONORS)**

½ Credit: 12th - Course number: 322 - **Prerequisite: Must have 3.0 GPA**

Honors Government provides a more in-depth study of our national government and its institutions. Students will become able to recognize and analyze significant local and national political issues as well as the democratic process.

Note: Economics and United States Government are packaged. If students register for one of these courses, they must also register for the other.

PSYCHOLOGY

1 Credit; 11th, 12th - Course Number: 331

Psychology is a course taught from a personal adjustment approach. Topics include personality, emotions, motivation, frustration, coping with stress, psychological disturbances, growth and development, influences on behavior and ways to improve self-image. Students will gain a better understanding of themselves, learn more about adjusting to life and improve problem-solving skills.

SOCIOLOGY

1/2 Credit; 11th, 12th - Course Number: 332

Sociology provides a survey of the basic principles of human relationships - the ways in which people relate to one another and influence each other's behavior. Other topics include basic customs, the family, culture of other countries, religions, deviant behavior and social controls. Emphasis will be given to the connection between the larger social world and personal lives.

***UNITED STATES HISTORY (HONORS)**

1 Credit; 11th grade - Course Number: 313 - **Prerequisite: Must have a 3.0 GPA**

Honors United States History is taught in the style of a college class and is conducted in a lecture/discussion format. A research paper, frequent essays, and outside readings may be required. The course provides students the opportunity to earn college credit in history while in high school through a dual-credit plan in conjunction with the University of Tennessee at Martin.

UNITED STATES HISTORY (REGULAR)

1 Credit; 11th grade - Course Number: 312

This course is a survey of our nation's past from the Civil War to the present. **This course is required for graduation.**

EARLY AMERICAN HISTORY

1 Credit; 11th, 12th - Course Number: 316 - **Prerequisite: Regular or Honors US History**

Early American History teaches students how people and events in America's early years shaped the present republic; how the US has grown in size and importance, and how its people have responded to crisis. This course traces the development of the United States from the discovery period through the Civil War.

WORLD GEOGRAPHY

1 Credit; 9th, 10th, 11th, 12th - Course Number: 301

World Geography offers an overview of the major geographic regions of our world and how man interacts with his physical environment. A concerted effort is made to relate geographic, climatic, historical, and cultural developments into a unified picture, stressing the interdependence of people and world problems. **This course IS a social studies credit satisfying graduation requirements.**

WORLD HISTORY

1 Credit; 9th, 10th, 11th, 12th - Course Number: 302

This history course provides a survey of the developments and events--from a global perspective--during the last 500 years (since about 1500) that have been most important in producing today's world. The course will include a brief survey of developments from the beginning of the "modern" period in A.D. 1500, but the main emphasis will be on the events of the 20th century. **This course IS a social studies credit satisfying graduation requirements.**

PERSONAL FINANCE

1/2 Credit; 12th - Course Number: 400

Personal Finance is designed to inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing.

THEATRE ARTS

THEATRE I

1 Credit - 10th, 11th, 12th - Course Number: 461

This course is designed to provide an introduction to theatre arts. Topics covered will include acting, technical theatre, and the history of drama. Students will present several acting scenes each semester. **This course will satisfy the Fine Arts requirement.**

ADVANCED THEATRE ARTS

1 Credit - 10th, 11th, 12th - Course Number: 463

Prerequisite: Theatre I

This course provides advanced training in acting, speaking, mass communication, and other theatre arts-related topics. Students will be required to participate in performances outside the classroom.

WELLNESS AND PHYSICAL EDUCATION

Note: Students may take ONE credit (2 courses) of PE each year.

AEROBICS	1/2 Credit; 10th, 11th, 12th - Course Number: 516
AQUATICS	1/2 Credit; 10th, 11th, 12th - Course Number: 513
RECREATIONAL SPORTS	1/2 Credit; 10th, 11th, 12th - Course Number: 515
TEAM GAMES	1/2 Credit; 10th, 11th, 12th - Course Number: 512
WEIGHT TRAINING	1/2 Credit; 10th, 11th, 12th - Course Number: 514
WELLNESS	1 Credit; 9th, 10th, 11th, 12th - Course Number: 501

INDIVIDUALIZED EDUCATION PROGRAM

The courses listed below are designed to meet the individual educational needs of each student. Enrollment and instruction are determined by the recommendation of the I.E.P. team.

COURSE NAME	CREDIT	COURSE NUMBER
I.E.P. ENGLISH	1	801
I.E.P. MATH	1	804
I.E.P. SCIENCE	1	809
I.E.P. GOVERNMENT -- 12th	1/2	810
I.E.P. ECONOMICS -- 12th	1/2	812
LRE for LIFE (Specify teacher)		910, 911, 912, 913
CDC (Wortham)		914
CDC (formerly C Adkins)		916 - 922
Transition from School to Work Program (This program is designed for students who are recommended by the M-team. Instruction is in career planning and preparation for the world of work after high school.)		903

CAREER AND TECHNICAL EDUCATION

Career and Technical Education is a combination of programs designed to equip students with work and life skills. Through the appropriate selection of programs, students may explore career options, gain insights into a number of fields of employment, prepare for specific careers, upgrade knowledge as work requirements change, and learn how to improve home and family life. Students are exposed to post-secondary opportunities available in vocational or technical schools, apprenticeship programs and colleges or universities.

Note: According to our articulation agreement with the state/technical schools, graduates of Dickson County High School may receive credit for their courses in programs at either Tennessee Technology Center (Dickson) or Nashville State Community College. See teacher for more information.

AGRICULTURE

Note: Principles of Agricultural Services is a recommended prerequisite for all other agriculture classes. Freshmen are limited to registering for Fundamentals of Agriculture only. If cuts are necessary, sophomores will be limited to one vocational agriculture class.

AGRICULTURE MECHANICS AND MAINTENANCE

1 Credit; 10th, 11th, 12th - Course Number: 561

This course includes standards to prepare students for operational procedures in a shop or home environment. Students learn basic skills ranging from welding, brazing, and electricity to land measuring to plumbing. Future Farmers of America is also an integral part of this course.

FORESTRY

1 Credit; 10th, 11th, 12th - Course Number: 569

Forestry is designed to develop student knowledge of forestry technology as it progresses into the 21st century. It emphasizes the awareness of conservation and preservation management practices utilized to ensure the sustainability of our outdoor resources. This course will generate career interest and more responsible land ownership in the community.

GREENHOUSE MANAGEMENT

1 Credit; 11th, 12th - Course Number: 563

This class is designed for students who are interested in horticulture. As populations continue to expand, the importance of food production in a condensed, climate-controlled environment increases. Understanding the integrated principles needed for successful management of a greenhouse will allow the agricultural industry to continue to produce the quality and quantity of food and fiber needed in the 21st century. Future Farmers of America is an integral part of this course.

LIVESTOCK MANAGEMENT

1 Credit; 10th, 11th, 12th - Course Number: 562

Prerequisite: Fundamentals of Agriculture

This course will prepare students for a career in animal science. Subject matter will include a basic knowledge of animal anatomy, nutrition, health, genetics, and animal facilities. Students will also evaluate the effect a livestock management program has on the local ecosystem. Future Farmers of America is an integral part of this course.

FAMILY AND CONSUMER SCIENCES

Note: The student organization--Family, Career, and Community Leaders of America--provide opportunities for leadership and personal development and is as integral part of each instructional area.

LIFE CONNECTIONS

1 Credit; 11th, 12th - Course Number: 570

This course is designed to empower students to take action for the well-being of themselves and others as they effectively manage the roles and responsibilities created by family, career, and community interactions. Students will learn to plan and set goals for a career, manage multiple roles, maintain respectful and caring relationships, understand the responsibilities of parenting, cope with stress and crisis situations, provide for health and well being, and function as informed consumers.

CHILD AND LIFESPAN DEVELOPMENT

1 Credit; 10th, 11th, 12th - Course Number: 575

Child Development prepares individuals to understand children's physical, mental, emotional and social growth and development. Student will obtain skills essential in care and guidance of children. Topics include parenting, parental care, and study of the child through the preschool years.

ASPECTS OF HOUSING/TEXTILES AND APPAREL

1 Credit; 10th, 11th, 12th - Course Number: **585** Aspects of Housing; **586** Textiles & Apparel

Note: This package consists of two separate courses, each which is ½ credit.

Aspects of Housing is a basic course in interior design with emphasis on selection, arrangement, and combination of furnishings for the home. **Textiles and Apparel** provides individualized laboratory experiences in construction skills. Topics include dressing and grooming for success, design and color, fiber identification, use of sewing machine and small equipment, pattern selection, clothing construction, and careers in the fashion industry.

NUTRITION AND FOODS

1 Credit; 11th, 12th - Course Number: 590

This course is a basic study of food selection, preparation, and service. Nutrition and consumer education are included. This course provides additional opportunities for the study of foods and nutrition with an emphasis on a variety of food products and preparation techniques. **Note: The class fee for this course is \$25.00.**

HEALTH SCIENCES

HEALTH SCIENCE EDUCATION

1 Credit; 9th, 10th, 11th - Course Number: 600

This course will include basic health care information on services and 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. This course serves as a foundation for all health science courses.

FORENSIC SCIENCE

1 Credit; 11th, 12th - Course Number: 603 - **Prerequisite: Chemistry**

This course is an overview of how science is applied to solving crimes. Topics include history of forensic sciences, collection of evidence, analyzing results, and hands-on application of many laboratory techniques used in solving crimes. Students will participate in a staged crime scene to apply knowledge and gain skills in a simulated real-life situation. **Note: The class fee for this course is \$20.00.**

ANATOMY AND PHYSIOLOGY

1 Credit; 12th - Course Number: 612 - **Prerequisite: Biology I and Chemistry**

This course will assess human anatomy and physiological functions and descriptive results of abnormal psychology with clinical consequences. Students will demonstrate a workable knowledge of medical terminology. Anatomy and Physiology serves as a foundation for all Health science courses. **This course will satisfy credit in science OR serve as a tech major credit. Note: The class fee for this course is \$25.00.**

CLINICAL INTERNSHIP

1 Credit; 12th - Course Number: 621

Prerequisites: Students must have successfully completed a course in Rehabilitative Therapies, Therapeutics, or Diagnostics; must have a physical with a negative TB test; must have taken the HBV vaccine, and must provide their own clinical uniforms and transportation to clinical site. This course is offered two periods and receives only one credit.

This course allows students to observe actual clinical work sites, gain knowledge of the duties, responsibilities, and legal aspects as well as develop skills in patient assessment, communication, and work environment. Students will be selected for this course based on program criteria which includes grades, attendance, and personal integrity.

DIAGNOSTIC MEDICINE

1 Credit; 10th, 11th, 12th - Course Number: 613 - **Prerequisite: Health Science Education**

This course is designed for the student interested in a diagnostic health career. This course combines health information science, allied health, and communication techniques for the health care provider and is strongly recommended for those students enrolled in health science classes. Upon completion of the course, a student may enroll in clinical internship which can articulate to post-secondary education or entry-level positions in diagnostics.

REHABILITATIVE THERAPIES

1 Credit; 11th, 12th - Course Number: 601 - **Prerequisite: Health Science Education**

Students interested in physical therapy, athletic training, sports medicine, or occupational therapy should take this class as a prerequisite for clinical internship.

THERAPEUTICS

1 Credit; 11th, 12th - Course Number: 611 - **Prerequisite: Health Science Education**

Students interested in pharmacy **MUST** take this class as a prerequisite to Clinical Internship. Other interested students are welcome to sign up as well.

BUSINESS EDUCATION/INFORMATION TECHNOLOGY

ACCOUNTING I

1 Credit; 11th, 12th - Course Number: 381

This course is designed as an overview of the accounting system with particular emphasis on the principles of double-entry accounting. For students who plan on majoring in business or owning their own business, this course provides an excellent beginning for more advanced study at the post-secondary level.

AMERICAN BUSINESS LEGAL SYSTEMS

1 Credit; 11th, 12th - Course Number: 371

The emphasis on this course is our legal system. The content of the course includes understanding the law and our legal system with emphasis on individual rights. Criminal law, tort law, and personal law are covered. A particular approach is used to help students appreciate their legal rights and understand their legal duties.

DESKTOP PUBLISHING

1/2 Credit; 10th, 11th, 12th - Course Number: 395

Recommended Prerequisites: Keyboarding

The student will apply keying, formatting, typography, and layout and design skill in developing electronic publishing documents. They will learn design, layout, composition, and photo journalism.

INTERACTIVE MULTIMEDIA PRESENTATION

1/2 Credit; 10th, 11th, 12th - Course Number: 394

Recommended Prerequisites: Keyboarding

The student will apply keying, typography, layout and design skills in this course. The student will be proficient in using interactive multimedia tools to develop electronic presentations. Creative design, persuasive communications, and language arts skills are applied through research, evaluation, validation, written, and oral communication. Typography, layout and design guidelines are applied. Copyright laws and ethical practices are reinforced in creating and formatting various presentations that require imported data/graphics, digital, audio, and video clips. Team development will also be stressed as students work on multimedia project(s).

WEB SITE - FOUNDATIONS

1 Credit; 10th, 11th, 12th - Course Number: 392

Recommended Prerequisite(s): Doc Creation/Spreadsheet Apps, Alg I or Tech Alg

This course is the first level of Web Page Design. Course content includes exposure to basic Web design and hosting, the dynamics of networking/internetworking, security, HTML, and XHTML.

WEB SITE - DESIGN

1 Credit; 11th, 12th - Course Number: 396

Recommended Prerequisite(s): Keyboarding/Document Formatting; Suggested Pre-reqs: Alg I, Web Site - Foundations

This course prepares students with work-related skills for advancement into postsecondary education or industry. Course content includes exposure to basic and advanced Web design, pixelated and vector-based Web graphics, Web animations, dynamics of Web hosting, and Web design in E-commerce.

INTERNATIONAL BUSINESS AND MARKETING

1 Credit; 11th, 12th - Course Number: 373

International Business and Marketing provides the student the opportunity to develop skills needed to live and work in a global marketplace. The student will acquire attitudes, knowledge, and skills for entry-level international business occupations. This includes but is not limited to political, legal, financial, economic, and social/cultural considerations. Students will produce a thirty second commercial and a ten minute infomercial on video. These projects will be presented to the class.

BUSINESS MANAGEMENT

1 Credit; 10th, 11th, 12th - Course Number: 363

In Business Management, students learn organizational structure, leadership styles, business ethics, and financial, legal, and marketing concepts. Communications skills and security features are also emphasized.

FINANCIAL PLANNING

1 Credit; 10th, 11th, 12th - Course Number: 364

Financial Planning is a course designed to develop skills in the use of financial principles in making business decisions. Students will research job qualifications and employment opportunities in finance. The course includes a study of the allocation of financial resources, the effects of finance and credit institutions on the business community and the impact of financial decisions on the consumer market. Ethical issues will be presented in this course. This class is offered for Dual Credit.

TECHNOLOGY ENGINEERING EDUCATION

FOUNDATIONS OF TECHNOLOGY

1 Credit; 10th, 11th, 12th - Course Number: 638

This course introduces students to technology. Topics include problem solving, creative thinking, and technological processes and tools. Abilities developed will include information technology, multi media, selection and safety testing of technological products and services. Integration with academic subjects, leadership skills, and career options will be stressed. Membership in Technology Students Association is encouraged.

TECHNOLOGICAL ISSUES (formerly Tech Systems)

1 Credit; 10th, 11th, 12th - Course Number: 640 - **Prerequisite: Innovations and Inventions/Foundations of Technology**

This is an overview course designed to introduce students to the application of technology to solve problems and meet human needs and wants. Laboratory experiences are focused on the technology systems of communication through drawing and design. Focus areas will be energy, power, transportation, construction, and manufacturing. Students will apply problem solving concepts to these areas of technology through drafting and design using manual drafting and CAD software (AutoCad and SolidWorks).

ADVANCED TECHNOLOGICAL APPLICATIONS

1 Credit; 11th, 12th - Course Number: 645 - **Prerequisite: Algebra I AND Geometry**

This course introduces students to the concepts and practices that underlie careers in engineering and engineering technology. The course integrates STEM (Science, Technology Engineering and Mathematics) into pre-engineering activities. Students acquire knowledge and skills in engineering problem solving and explore requirements for engineering careers. Students will also be required to perform research and upper level literacy in technology engineering education.

TRADES AND INDUSTRIAL EDUCATION

JOBS FOR TENNESSEE GRADUATES

1 Credit; 12th - Course Number: 630

This program is designed for students who plan to enter the world of work upon graduation. Students will concentrate on career interests and job requirements: resume, application, and interview skills; job advancement skills; and the basic math and communication skills. Upon graduation, continued assistance in job obtainment will be given. Membership in the Tennessee Career Association is recommended.

This course is not open to students who have taken Marketing I. Seniors wishing to take Jobs may sign up for this class. The class will be chosen according to State and Federal Guidelines.

DRAFTING SEQUENCE

COMPUTER-AIDED DRAFTING (CAD)

1 Credit; 10th, 11th, 12th - Course Number: 641

If you are interested in computers, drawing, architecture, or engineering, this is a course for you! Students will learn the basic concepts of scale drawings and orthographic projections by making simple two and three dimensional drawings using manual drafting tools and computer-aided design (AutoCAD and SolidWorks). There is a link on our DCHS website showing examples of work. Go to dicksoncountyhighschool.com then click on the link *Faculty*. Scroll down to the name of the CAD teacher (Stefan Logan) and click on the *Drafting* link, then open the PowerPoint Presentation.

ADVANCED COMPUTER AIDED DRAFTING (Advanced CAD)

2 Credits; 11th, 12th - Course Number: 643

Prerequisites: CAD

This is strictly a computer course for those interested in drawing with computers, architecture, engineering, and many other fields. Students will build their knowledge of CAD programs as well as create engineering and architectural drawings. Students will create house plans, assemblies, discuss the process of drawings, create cross sections, look at 3D representation drawings, and calculate bills of materials. We will be using AUTOCAD, SOLIDWORKS, A+ CAD, Google Sketch UP PRO, and ArchiCAD.

AUTOMOTIVE SEQUENCE

AUTOMOTIVE: ELECTRICAL/ELECTRONICS

2 Credits; 11th, 12th - Course Number: 681 - **Prerequisite: Transportation Core**

Course content prepares the students with a foundation to enter the automotive engine-performance course. Students apply principles of electricity to automotive technology and develop diagnostic skills.

AUTOMOTIVE: BRAKE SYSTEMS

1 Credit; 12th - Course Number: 691 - **Prerequisite: Transportation Core**

This course offers training in the diagnosis and repair of hydraulic, mechanical, and electrical systems used in standard and anti-lock brake systems.

AUTOMOTIVE: SUSPENSION AND STEERING

1 Credit; 12th - Course Number: 692 - **Prerequisite: Transportation Core**

This course teaches the principles of automotive suspension/steering systems and four-wheel suspension alignment.

Note: Competencies mastered in the Auto Mechanics Program may be transferred as credit to the Tennessee Technology Center (Dickson) and applied toward A.S.E. certification.

CONSTRUCTION-CARPENTRY SEQUENCE

CONSTRUCTION CORE

1 Credit; 10th, 11th - Course Number: 700

This course is a prerequisite for the construction trade. Course content includes leadership development, safety, math related to the construction trade, hand-tool and power-tool operation, blueprint reading, and rigging.

CARPENTRY I

2 Credits; 11th, 12th - Course Number: 712 - **Prerequisites: Construction Core**

This course introduces students to basic skills and knowledge related to residential and commercial carpentry. Topics covered include wood, metal, and concrete building materials; fasteners; hand and power tools; fabrication based on construction plans; and framing of platform and post-and-beam structures in both wood and metal.

CARPENTRY II

2 Credit(s); 12th - Course Number: 715 - **Prerequisite: Carpentry I**

Advanced instruction in the use of various building materials, tools, and equipment are provided through various activities.

TENNESSEE TECHNOLOGY CENTER

Prerequisite: At least a C grade point average and less than 50 discipline points and approved attendance record. You will be interviewed prior to final selection for TTC classes.

NOTE: These courses are for seniors (12th grade). They are 2 credits per term. Must provide own transportation. Supply and equipment fee required. May take both terms. Students should only enroll in these courses based on career choice. Students need to demonstrate particular interest with desire to continue training at TTC after graduation.

HEAVY EQUIPMENT/DIESEL MECHANICS

2 Credits each term; 12th - Course Number: 695 (Fall); 696 (Spring)

Instruction includes theory, equipment & engine components, transmissions & drive trains, electrical brakes, suspension & steering, air conditioning, preventive maintenance & hydraulics. Course completion prepares students for entry in to the heavy equipment, diesel engine, agriculture and heavy-duty truck industries.

HEATING, VENTILATION, AIR CONDITIONING, REFRIGERATION

2 Credits each term; 12th - Course Number: 767 (Fall); 768 (Spring)

Classroom and shop learning experiences include theory application, and service of air conditioning and refrigeration equipment. Included are print reading, basic electricity & electronics, heat pump technology, pneumatics, math, programmable controllers, refrigerant containment certification (EPA Certification), and computer training.

MACHINE TOOL TECHNOLOGY

2 Credits each term; 12th - Course Number: 776 (Fall); 777 (Spring)

Processes are completed on machines such as milling machines, lathes, grinders, drill presses, CNC milling machines & EDM machines. Instruction is given in blueprint reading, mathematics, precision measuring, and such basic metallurgy as properties of metals, their workable characteristics, best treatment of metals, and relative hardness.

INDUSTRIAL MAINTENANCE

2 Credits each term; 12th - Course Number: 764 (Fall); 765 (Spring)

Instruction includes industrial economics, air conditioning, pneumatics, programmable controllers, hydraulics, robotics, welding, machine shop, and related math. This program prepares students to maintain automated equipment and perform industrial maintenance repairs.