

2014-2015

**CUMBERLAND
COUNTY
SCHOOL SYSTEM**

**SECONDARY
COURSE
CATALOG**

“To empower each student with the skills to be a productive citizen.”

REGISTRATION TIPS

1. Review and update your Six-Year Plan on your own or with your counselor. Make your course selections based on your plan.
2. In order for students to enroll in an Honors, AP, or Dual class, students must have scored **ADVANCED** on state TCAPS and/or EOC (End of Course exam) exams. Exception: Guidance counselor and teacher approval.
3. Consult the Course Catalog to see if your chosen class has a pre-requisite or requires instructor approval.
 - a. Pre-requisites are classes that must be successfully completed prior to taking another specific class. If you have not successfully completed the pre-requisites for a class, you will not be allowed to take the class.
 - b. If a class requires instructor approval, you must have the instructor initial your Curriculum Sheet before you will be allowed to register for the class.
4. Please choose Honors or Advanced Placement (AP) classes carefully. These are rigorous courses that will require you to apply yourself to the curriculum.
5. Take care when choosing your alternate courses. If a requested course is not part of the master schedule, your alternate course selections will be used to complete your schedule.
6. Remember that the master schedule is based on student requests at the time of registration and the availability of instructors certified in that subject area. Not all classes in the course catalog will be taught every school year. Not all classes in the course catalog are offered at all 3 (three) high schools.
7. Choose all classes based on your graduation requirements and your particular interests. Don't choose a class just because your friends or boy/girlfriend is

taking the same class. Class changes can only be made for a limited time at the beginning of each semester.

****REMEMBER****

The School Counselors make every effort to honor all class requests. However, due to scheduling constraints and graduation requirements, all scheduling scenarios are not possible.

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Freshman Academy

Content Area Reading 3081

Prerequisite: Instructor recommendation

This course is designed for students with a need for additional instruction in reading, comprehension, and basic grammar. Emphasis will be placed on improvement of basic reading skills. The course should be taken in addition to grade level English courses.

FA English 9 FA3001

Grade Levels: 9 Credit: 1

This entry-level English class covers basic grammar skills including parts of speech, sentences, phrases, and clauses. Literature studies include short stories, biographical and auto-biographical excerpts, poetry, and drama. There is an emphasis on paragraph development and persuasive writing. End of course testing is mandated.

FA English 9 Honors FA30012

Grade Levels: 9 Credit: 1

This course includes grammar study. Writing skills are combined with a study of short stories, plays, a novel, poetry, informational texts, and biographical/autobiographical selections. Students interact with the community through independent career study. Expectations are high, and the pace is faster than that of English 9. End of course testing is mandated.

FA English 9 Accelerated Honors

FA30013

Grade Levels: 9 Credit: 1

Students should enroll in this course in preparation for taking Advanced Placement English courses their junior and senior year. This course includes grammar study. Writing skills are combined with a study of short stories, plays, a novel, poetry, biographical/autobiographical selections, and informational texts. Students interact with the community through independent career study. Expectations are high, and the pace is faster than that of Honors English 9. End of course testing is state mandated.

FA Environmental Science FA3260

FA Environmental Science Honors FA32601

FA Agriscience FA5957 Honors FA59572

Grade Levels: 9 Credit: 1

Agriscience consists of standards to prepare students for biology and subsequent sciences for the university bound student. The content area covers ecology, biological processes, sexual and asexual reproduction and a study of the chemical and physical laws that govern life. Agriscience is awarded a Life Science credit.

FA Physical Science FA3202

Grade Levels: 9 Credit: 1

Students study scientific processes as they relate to the physical world. Topics include matter and energy relationships, the structure and properties of matter, and measurement. Lab experiences and mathematical calculations are included. Students must have a calculator.

FA Physical Science Honors FA32025

Grade Levels: 9 Credit: 1

Prerequisites: None

This course covers all the topics of the physical science course but in greater depth. Students study scientific processes as they relate to the physical world. Topics include matter and energy relationships, the structure and properties of matter, and measurement. Lab experiences and mathematical calculations are included. Students must have a calculator.

FA Biology 1 FA3210 Honors FA32107

Grade Levels: 9 Credit: 1

This class focuses on the same topics as the Biology 1 course; however, this class requires more reading, writing, and analytical thinking skills. End of course testing is mandated

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FA Algebra 1A

Grade Levels: 9

This is the study of algebraic expressions, equations and inequalities involving integers, rational expressions, graphing, linear equations, rational and irrational numbers.

FA31023

Credit: 1

FA Geometry

Grade Levels: 10, 11, 12

This course incorporates the same core geometric concepts required in a standard geometry course but includes additional topics that focus on technical applications. These concepts will be taught using practical applications in a contextual style of teaching, including labs and projects.

Honors FA3108

Credit: 1

FA Algebra 1B

Grade Levels: 9

Prerequisites: FA Algebra 1A
Algebra 1B is a continuation of Algebra 1A and will include factoring of polynomials, radical expressions, quadratics, and an introduction to trigonometry. All students graduating must pass a standardized test administered at the end of the course in order to receive a high school diploma. End of course testing is mandated.

FA31024

Credit: 1

FA World Geography

Grade Levels: 9

This course is designed to expose students to the many nations and peoples of the Earth, including their histories, economics, locations, social structures, and topographies.

FA3410

Credit: 1

FA Algebra 1A Honors

Grade Levels: 9

All of the topics covered in Algebra 1A and Algebra 1B will be covered, but in greater depth. Additional enrichment activities will be included as well. Honors Algebra 1A will be taught the first semester. End of course testing is mandated.

FA310235

Credit: 1

FA World History

Grade Levels: 9

World History is a survey course covering the events and people from ancient to modern times.

FA3401

Credit: 1

Lifetime Wellness –1st Semester 3303

2nd Semester 330322

FA Algebra 1B Honors

Grade Levels: 9

Prerequisites: FA Algebra 1A
All of the topics covered in Algebra 1A and Algebra 1B will be covered, but in greater depth. Additional enrichment activities will be included as well. Honors Algebra 1B is taught second semester. End of Course testing is mandated.

FA310245

Credit: 1

FA Algebra I Honors

Grade Levels: 9

This is a first semester course and must be paired with Honors Algebra 2 second semester. All of the topics covered in Algebra 1A and Algebra 1B will be covered, but in greater depth.

FA31027

Credit: 1

FA Algebra 2 Honors

Grade Levels: 9

Prerequisites: Algebra I Honors
This course includes in depth instruction in solving systems of equations and inequalities, matrices, radical and rational expressions, graphing conics, polynomial functions, probability exponential and logarithmic functions, sequences and trigonometric functions, as well as circular functions, complex number, and vectors. Students must have successfully completed Honors Algebra I first semester.

FA3103

Credit: 1

FA Electives

Health & PE

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Begin Weight Lifting 2 nd Sem	330122
Physical Education 1 st Semester	3301
Physical Education 2 nd Semester	330120
PE Weight Lifting--Football	33013
PE Boys-- Basketball	33014
PE Girls-- Basketball	33015
PE--Baseball	33016
PE—Girls—Softball	33018

Social Studies

Sociology	3432
Psychology	3433
Ancient History	3402

FINE ARTS

History of Rock	3517
Vocal Music 1	3531
Vocal Music 2	35312
Instrumental Music 1	3530
Instrumental Music 2	35302
Guitar	3552
Percussion	3505
Piano	3540
Visual Art 1	3501
Theatre Art 1	3524
Theatre Art 2	3521

CTE

(Career and Technical Education)

Agriculture, Food, & Natural Resources

FA Agriculture Science	FA5957
FA Agriculture Science--Honors	FA59572

Architecture & Construction

Construction Core	6073
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Arts, Audio/Visual Technology, & Communications

Digital Art & Design 1 / Photography	6084
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Business Management & Administration

Interactive Multi Media	5897
Interactive Multi Media	58972
Computer Applications	5891
Advance Computer Applications	5904

Health Science

Health Science Education	5998
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Human Services

Child & Lifespan Development	6013
Family Studies	6136
Intro to Human Services	6137
Nutrition Across the Lifespan	6005

Law, Public Safety, Corrections, & Security

Criminal Justice 1	5987
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STEM

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Transportation, Distribution, and Logistics

Maintenance & Light Repair 1 (MLR 1)	5879
Maintenance & Light Repair 2 (MLR 2)	5880
Introduction to Aerospace	6068

UPPERCLASS COURSES----- 10th 11th 12th

Fine Arts

History of Rock 3517

Grade levels: 9, 10, 11, 12 Credit: 1
History of Rock is the study of the origins, characteristics and stylistic development of music dating from the 5th to 21st century, emphasizing the Rock-n-Roll genre of the 1950's to the present.

Instrumental of Music 1-1stSem 3530 Instrumental of Music 2-2ndSem 35302

Grade levels: 9, 10, 11, 12 Credit: 1
Marching Band is offered First Semester. Concert Band is offered Second Semester. The marching band performs at all football games, participates in marching competitions, and other activities throughout the year. Rehearsals and Band Camp begin in the summer. Members must attend band camp. Attendance is required at all rehearsals, performances, and camp. Students earn 1 credit. Course Grade is applied to the student's GPA the first time student completes the course. Subsequent course grades will not be applied toward student's GPA.

Guitar 3552

Grades 9,10,11,12 Credit: 1

Percussion 3505

Grades 9,10,11,12 Credit: 1

Piano 3540

Grades 9,10,11,12 Credit: 1

Theatre Arts 1 3524

Grade levels: 9, 10, 11, 12 Credit: 1
The course includes the beginning concepts of drama, involving an introduction to acting, basic technical theater and design, costumes, makeup, puppetry, storytelling, musical theater, and writing. An introductory survey of theater history, including major playwrights and movements, will be included. The purpose of this course is to introduce students to the world of theater arts and to foster appreciation, while

giving them practical experience necessary for audition and production.

Theatre Arts 2 3521

Grade levels: 9, 10, 11, 12 Credit: 1
Prerequisites: Instructor approval
An extension of Theatre Arts 1, this course seeks to provide more in-depth analysis and study of theatre history and its movements, as well as practical experience in acting, directing, technical theatre, and dramaturgy. Advanced scene study and script analysis may lead to performance opportunities, depending on the needs and interests of the class.

Visual Art 1 3501

Grade levels: 9, 10, 11, 12 Credit: 1
Art 1 is an introductory class, requiring no prior art background. This course provides hands-on studio experiences in creating art plus an introduction to art history and art criticism. Students explore drawing and painting. Students will be encouraged to experiment with tools, material, techniques, processes, and ideas.

Visual Art 2 /Photography 3502

Grade levels: 10, 11, 12 Credit: 1
Prerequisites: Visual Art 1 3501
This course expands on the skills learned in Visual Arts 1 and is designed for students that excelled in Art 1. This class takes a creative, historical, and critical approach to learning about art. Students work with all types of media to develop drawing and painting skills. Students will produce only original artwork. An art portfolio may be started in this class.

Visual Art 3 3503

Grade levels: 11, 12 Credit: 1
Prerequisites: Visual Art 2 3502
This class is designed for the serious art student who is interested in pursuing an art or art-related career. Visual Art 3 students will expand their portfolio for art scholarships and art shows.

Visual Art 4 3504

Grade Levels: 11, 12 Credit: 1
Prerequisites: Visual Arts 3
This class is designed for the serious art student who is interested in pursuing an art or art-related career. Visual Art 4 students will expand their portfolio for art scholarships and art shows.

Visual Communications 5759

Grade Levels: 10, 11, 12 Credit: 1

This course provides a foundation to the visual art, design, and photography industries. Students are introduced to photography through film and digital cameras. Black and white film processing is taught as well as computer-based art.

Studio Art AP Drawing Portfolio 3533

2D Design Portfolio AP 3545

Grade levels: 11, 12 Credit: 1

Prerequisites: Visual Art 1 3501

Students in AP Studio Art work towards developing a comprehensive vocabulary of art. This involves viewing, analyzing, and creating work in a wide variety of media. The class focuses on creating a portfolio that will meet requirements for college-level classes. Students begin AP Studio Art in the fall term and should continue in the spring term in order to create the body of work required. Upon completion of the AP course, students will be required to submit their portfolio to the AP program for evaluation in order to receive college credit.

Vocal Music 1 3531

Grade levels: 9, 10, 11, 12 Credit: 1

Students enrolling in this class may have little or no singing background. The class involves vocal performances in the classroom and regularly scheduled performances. Attendance is required at all rehearsal and performances. Course grade is applied to GPA.

Vocal Music 2 35312

Grade levels: 9, 10, 11, 12 Credit: 1

Prerequisites: Vocal Music 1 35311

Students are involved in vocal performances in the classroom, and give public performances on a regular basis. This choir will compete in festivals and other performance events. Attendance is required at all rehearsals and performances. Course grade is not applied to student's GPA.

Language Arts

Content Area Reading 3081

Prerequisite: Instructor recommendation

This course is designed for students with a need for additional instruction in reading, comprehension, and basic grammar. Emphasis will be placed on improvement of basic reading skills. The course should be taken in addition to grade level English courses.

English 10 3002

Grade Levels: 10, 11, 12 Credit: 1

This course includes the study and practice of writing skills and basic grammar. The literary focus is on short stories, poetry, a Shakespearean play, and a novel. A standardized (state-mandated) test is administered at the end of the course. All students must pass this test in order to receive a high school diploma.

English 10 Honors 30029

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: English 9 Honors FA30012

This course will require students to develop an advanced style of writing. Practice writing will be explored in the areas of exposition and persuasive writing. Students will establish a higher level in the areas of grammar, writing, and reading. Students will be required to pass an end-of-course examination administered at the end of each term.

English 10 Accelerated Honors 30027

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: FA English 9 Honors

Students should enroll in this course in preparation for taking Advanced Placement English courses their junior and senior year. This Honors course stresses grammar study and thematic writing. Writing skills are combined with a study of short stories, a Shakespearean play, a novel, and other literary genres. A standardized (state-mandated) test is administered at the end of the course. All students must pass this test in order to receive a high school diploma.

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English 11 3003

Grade Levels: 9,10, 11, 12 Credit: 1

Prerequisites: English 9 English 10

This course includes a survey of American literature. Practical writing skills, as well as expository and persuasive writing skills, are studied.

English 11 Honors 30039

Grade Levels: 11, 12 Credit: 1

Prerequisites: English 10 Honors

This course includes an intense review of American literature. The course also includes the practice and study of grammar. The class will prepare students for the state writing assessment.

English 11 Accelerated Honors 30033

Grade Levels: 11 Credit: 1

Prerequisites: English 10 Honors

This course is the first half of a year one course designed to culminate in the AP exam for English Literature & Composition. Students who plan to sit for this exam must enroll in this class for the first semester. This is a demanding course focused on developing mastery of rhetoric, which involves the expository, analytical and argumentative writing. Students will be taught to read the primary and secondary sources carefully, to synthesize material from these texts in their own compositions and to cite sources accurately and correctly. Improving the student's reading and writing skills. End of course testing is mandated.

English 11 AP (Language and Composition) 3013

Grade Levels: 11 Credit: 1

Prerequisites: English 9 English 10 English 11

This is a demanding course focused on developing mastery of rhetoric, which involves the expository, analytical and argumentative writing. Students will be taught to read the primary and secondary sources carefully, to synthesize material from these texts in their own compositions and to cite sources accurately and correctly. Improving the student's reading and writing skills. Upon completion of the Advanced Placement (AP) course, students will be required to pass the AP exam in order to receive college credit.

English 12 3005

Grade Levels: 12 Credit: 1

This course includes the study of writing skills and grammar usage. Emphasis is placed on vocabulary. World and English literature selections are covered.

English 12 Honors 30057

Grade Levels: 12 Credit: 1

This course includes a brief review of grammar usage with intensive study and practice of writing skills, particularly critical or evaluative writing. It also includes a survey of English and World literature (all literary genres).

English 12 AP (Literature & Composition) (AP Lit Comp) 3014

Grade Levels: 12 Credit: 1

College English Composition credit may be earned simultaneously with Honors English 12 credit. Course materials include RSCC texts, videos, and approved syllabi. Students must meet current college guidelines on the ACT. Student signing for Dual also have the option of the AP Honors English 12. AP Honors English will be accomplished within the Dual Honors English during the 2nd semester class. Students are prepared to take the AP English Literature and Composition Examination.

English 12 Dual 1st Semester 30059

English 12 Dual/Hon 2nd Sem 300592

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Public Speaking 3015

Grade Levels: 11, 12 Credit: 1
This course is designed to develop effective oral communication, including delivery, organization, content, and stress management. informative, impromptu, and persuasive speaking.

Journalism/Yearbook 1 3008

Grade Levels: 10, 11, 12 Credit: 1
Prerequisites: Students must submit an application and be approved by the instructor.
This course is offered First Semester.

Journalism/Yearbook 2 30082

Grade Levels: 11-12 Credit: 1
Prerequisites: Students must submit an application and be approved by the instructor.
This course is offered Second Semester.

Creative Writing 3012

Grade Levels: 10, 11, 12 Credit: 1
Prerequisites: None

English Second Language 1st Sem 3075

English Second Language 2nd Sem 30752

World Language

French 1 3041

Grade Levels: 10, 11, 12 Credit: 1
Students will be able to understand everyday questions and simple conversations. Students will use the four skills of foreign language: listening, speaking, reading, and writing. Students will be exposed to French costumes, history and culture.

French 2 3042

Grade Levels: 10, 11, 12 Credit: 1
Prerequisites: French 1
This course is a continuation of the material explored in French 1. Students will be able to understand everyday questions and simple conversations. Students will use the four skills of foreign language: listening, speaking, reading, and writing. Students will be exposed to French costumes, history, and culture.

French 3 3043

Grade Levels: 11, 12 Credit: 1
Prerequisites: French 1 & 2
This course is a continuation of the material explored in French 1 and 2. Students will be able to understand everyday questions and simple conversations. Students will use the four skills of foreign language: listening, speaking, reading, and writing. Students will be exposed to French costumes, history, and culture.

German 1 3051

Grade Levels: 10, 11, 12 Credit: 1
Students will be able to understand everyday questions and simple conversations. Students will use the four skills of foreign language: listening, speaking, reading, and writing. Students will be exposed to German costumes, history and culture.

German 2 3052

Grade Levels: 10, 11, 12 Credit: 1
Prerequisites: German 1
This course is a continuation of the material explored in German 1. Students will be able to understand everyday questions and simple conversations. Students will use the four skills of foreign language: listening, speaking, reading, and writing. Students will be exposed to German costumes, history, and culture.

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German 3 3053

Grade Levels: 11, 12 Credit: 1

Prerequisites: German 1 & 2

This course is a continuation of the material explored in German 1 and 2. Students will be able to understand everyday questions and simple conversations. Students will use the four skills of foreign language: listening, speaking, reading, and writing. Students will be exposed to German costumes, history, and culture.

German 4 3054

Grade Levels: 12 Credit: 1

Prerequisites: German 1, 2, & 3

This course is a continuation of the material explored in German 1, 2, and 3. Students will be able to understand everyday questions and simple conversations. Students will use the four skills of foreign language: listening, speaking, reading, and writing. Students will be exposed to German costumes, history, and culture.

Spanish 1 3021

Grade Levels: 10, 11, 12 Credit: 1

Students completing this course are able to understand questions, conversations, and instructions in Spanish, and study Spanish using the four skills of language learning, listening, speaking, reading, and writing. Emphasis is placed on vocabulary and grammatical structure. Spanish culture and Spanish-speaking countries are also reviewed. Students who plan to enroll in AP Spanish in a subsequent school year should enroll in Accelerated Spanish 1 & 2 in order to prepare for the rigors of the AP course work.

Spanish for Workplace Communications (Span Com) 30211

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Spanish 1 3021

Students completing this course will further their working skills and knowledge by learning how to effectively communicate in Spanish while in the workplace. Cultural aspects of Spanish-speaking communities will also be explored.

Spanish I Accelerated 30212

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: None

Corequisites: None

Students are able to understand questions, conversations, and instructions in Spanish, and study Spanish using the four skills of language learning, listening, speaking, reading, and writing. Emphasis is placed on vocabulary and grammatical structure. Spanish culture and Spanish-speaking countries are also reviewed. Students who plan to enroll in AP Spanish in a subsequent school year should enroll in this course and Accelerated Spanish 2 in order to prepare for the rigors of the AP course work.

Spanish 2 3022

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Spanish I 3021

Students are able to understand questions, conversations, and instructions in Spanish, and study Spanish using the four skills of language learning, listening, speaking, reading, and writing. Emphasis is placed on vocabulary and grammatical structure. Spanish culture and Spanish-speaking countries are also reviewed.

Spanish 2 Accelerated 30222

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Spanish 1

This course is a continuation of the material begun in Accelerated Spanish 1. Students are able to understand questions, conversations, and instructions in Spanish, and study Spanish using the four skills of language learning, listening, speaking, reading, and writing. Emphasis is placed on vocabulary and grammatical structure. Spanish culture and Spanish-speaking countries are also reviewed. Students who plan to enroll in AP Spanish in a subsequent school year should enroll in Accelerated Spanish I and this course in order to prepare for the rigors of the AP course work.

Spanish 3 Accelerated Honors 3023

Grade Levels: 11, 12 Credit: 1

Prerequisites: Spanish 1 & 2

Students should successfully complete this course prior to taking Spanish 4. This course enables the student to reinforce the Oral and writing skills acquired in Spanish. Applying and understanding expanded vocabulary, and increasing the speaking, reading and writing skills are included. Students who complete both Spanish 3 and 4 will be prepared to sit for the AP exam.

Spanish 4 Accelerated Honors 3024

Grade Levels: 11, 12 Credit: 1

Prerequisites: Spanish 3 Honors 3023

This course is a continuation of Spanish 3 Honors 3023 and enables the student to reinforce the oral and writing skills acquired in the previous semester of Spanish. Applying and understanding vocabulary and increasing their speaking, reading and writing skills are included. Students who complete both Spanish 3 and 4 will be prepared to sit for the AP exam.

Spanish 5 Accelerated Honors 3100

Grade Levels: 9, 10, 11, 12 Credit: 1

Prerequisites: Spanish 1, 2, 3, & 4

This course enables the student to reinforce the oral and writing skills acquired in Spanish. Applying and understanding expanded vocabulary, and increasing the speaking, reading and writing skills are included.

Spanish 6 AP 3025

Grade Levels: 12 Credit: 1

Prerequisites: Spanish 5

This course enables the student to reinforce the oral and writing skills acquired in Spanish. Applying and understanding expanded vocabulary, and increasing the speaking, reading and writing skills are included. Students who complete this course will be prepared to sit for the AP exam.

Mathematics

Foundations 2 3131

Grade Levels: 9, 10, 11, 12 Credit: 1

Prerequisites: None

This course is designed for those students who need help before taking Algebra 1. The course includes a study of (1) number of sense and theory, (2) estimation, measurement, and computation, (3) patterns, functions, and algebraic thinking, (4) statistics and probability, and (5) spatial sense and geometric concepts. After successful completion of Foundations 2, a student should be ready to enter Algebra 1.

Algebra 1A 1st Sem 31023

Algebra 1A-Repeat—2nd Sem 3102344

Grade Levels: 9, 10, 11, 12 Credit: 1

This is the study of algebraic expressions, equations and inequalities involving integers, rational expressions, graphing, linear equations, rational and irrational numbers.

Algebra 1B 2nd Sem 31024

Algebra 1B-Repeat 1stSem 31024555

Grade Levels: 9, 10, 11, 12 Credit: 1

Prerequisites: Algebra 1A

Algebra 1B is a continuation of Algebra 1A and will include factoring of polynomials, radical expressions, quadratics, and an introduction to trigonometry. All students graduating must pass a standardized test administered at the end of the course in order to receive a high school diploma. End of course testing is mandated by the state.

Algebra 2A 31033

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Algebra 1B

Algebra 2A will be offered in the fall semester, and will count as 1 elective credit. This course includes solving systems of equations and inequalities, matrices, radical and rational expressions, graphing conics, polynomial functions, probability, exponential and logarithmic functions, sequences and trigonometric functions.

Algebra 2B 31034

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Algebra 1B

Algebra 2B will be offered in the spring semester and is normally taught by the same teacher students had for Algebra 2A. Algebra 2B is a continuation of Algebra 2A. This course includes

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solving systems of equations and inequalities, matrices, radical and rational expressions, graphing conics, polynomial functions, probability, exponential and logarithmic functions, sequences and trigonometric functions. End of course testing is mandated.

Algebra 2 **3103**

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Algebra 1

This course includes solving systems of equations and inequalities, matrices, radical and rational expressions, graphing conics, polynomial functions, probability, exponential and logarithmic functions, sequences and trigonometric functions.

Algebra 2A Honors **31035**
2B Honors **31036**

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Algebra 1

All of the topics covered in Algebra 2 are covered, as well as additional topics such as circular functions, complex numbers, and vectors. This course is much more rigorous and faster paced than Algebra 2.

Geometry **3108**

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Algebra 1

Topics covered in this course consist of both plane and solid geometry. The course includes a study of points, lines, and planes and their relationships. Emphasis is placed on geometric skills, and the application of geometric concepts to life situations.

Geometry Honors **31087**

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Algebra 1

All of the topics covered in Unified Geometry are discussed in this course, but in much greater depth. In addition to learning geometric concepts and their applications, emphasis is placed on geometric proofs to improve reasoning skills and abstract thinking.

Bridge Math **3181**
1st Semester **31812**
2nd Semester

Grade Levels: 11, 12 Credit: 1

The class is for students that scored 18 or below in the Math subject area on the ACT.

Adv Alg & Trig/College Algebra Dual Honors **3124**
1st Semester **31242**
2nd Semester

Grade Levels: 11, 12 Credit: 1

Prerequisites: Geometry Algebra 1 B

Algebra 2B Algebra 2 Honors

Advanced Algebra & Trigonometry is a comprehensive course designed to prepare students for higher math. This course includes topics from probability and statistics, trig, analytic geometry, and advanced algebra.

College Algebra Dual **31241**

Grade Levels: 11,12 Credit: 1

Pre Calculus Dual/Honors **3126**

Grade Levels: 11, 12 Credit: 1

Prerequisites: Adv Alg & Trig/college Algebra Dual Honors 3124

This course consists of the study of linear, quadratic, exponential, logarithmic, and trig functions, sequences and series, the conic sections, and an introduction to calculus.

Statistics Dual/Honors **3136**

Grade Levels: 11, 12 Credit: 1

This course is an introduction to probability and statistics without calculus. Topics covered include sampling, frequency distribution, elementary probability, hypotheses testing, linear regression and correlation, analysis of variance and non- parametric statistics.

Calculus 1 Honors/Dual **3113**

Grade Levels: 12 Credit: 1

This course is offered fall semester and deals with the study of limits, derivatives, applications of derivatives, integrals, applications of definite integrals, logarithmic, exponential, hyperbolic, and trigonometric functions, improper integrals, infinite series and analytic geometry.

Calculus 2 Honors/Dual **31132**

Grade Levels: 12 Credit: 1

Prerequisites: Adv Alg & Trig/College Algebra Dual Honors 3124, Calculus Honors 3113

This course is offered spring semester. A student has the option to take Calculus 1 and 2 for 8 semester hours of college credit in addition to the 2 high school credits. Students must meet the current guidelines on the ACT test (26) to take the course for college credit.

Calculus AB AP 3127

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Geometry Adv Alg & Trig/College Algebra Dual Honors 3124, Pre Calculus Dual/Honors 3126

This course is offered spring semester and deals with the study of limits, derivatives, applications of derivatives, integrals, applications of definite integrals, logarithmic, exponential, hyperbolic, and trigonometric functions, improper integrals, infinite series, and analytic geometry. A student has the option to take this course for 4 semester hours of college credit in addition to the 1 high school credit. Students must meet the current guidelines on the ACT test to take the course for college credit.

Calculus BC AP 3128

Grade Levels: 12 Credit: 1

This course is offered spring semester and deals with the study of limits, derivatives, applications of derivatives, integrals, applications of definite integrals, logarithmic, exponential, hyperbolic, and trigonometric functions, improper integrals, infinite series, and analytic geometry. A student has the option to take this course for 4 semester hours of college credit in addition to the 1 high school credit. Students must meet the current guidelines on the ACT test to take the course for college credit. Students will sit for the AP exam at the conclusion of this course.

Health and PE

**Physical Education-1st Semester 3301
2nd Semester 330120**

Grade Levels: 9, 10, 11, 12 Credit: 1

This course provides an opportunity for students to participate in and learn the rules and strategies of a variety of individual and dual sports such as bowling, jump roping, tennis, badminton, archery, and Frisbee golf. This course will also include an opportunity for students to participate in and learn a variety of fitness activities that promotes individual responsibility for optimal well being.

PE Girl's Softball 33018

Grade Levels: 9, 10, 11, 12 Credit: 1

This course is designed for the highly competitive athlete. Students will study rules, strategies, and training techniques of softball. . This class will also include appropriate weight lifting.

**Lifetime Wellness -1st Semester 3303
2nd Semester 330322**

Grade Levels: 9, 10, 11, 12 Credit: 1

This course is a graduation requirement. Lifetime Wellness is a course mandated by the state of Tennessee which includes the following 7 strands: personal fitness and related skills, nutrition, substance use/abuse, sexuality and family life; safety and first aid; disease prevention and control, and mental health.

PE Baseball 33016

Grade Levels: 9, 10, 11, 12 Credit: 1

This course is designed for the highly competitive athlete. Students will study rules, strategies, and training techniques of baseball. This class will also include appropriate weight lifting.

PE Boys Basketball 33014

Grade Levels: 9, 10, 11, 12 Credit: 1

This course is designed for the highly competitive athlete. Students will study rules, strategies, and training techniques of basketball. This class will also include appropriate weight lifting.

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PE Girls Basketball 33015

Grade Levels: 9, 10, 11, 12 Credit: 1

Prerequisites: None

This course is designed for highly competitive athletes that participate in, learn and apply rules, strategies of a variety of competitive team sports such as basketball, soccer, softball and volleyball. This class will also include proper weight lifting,

Weight Lifting –1st Semester 33012
2nd Semester 330122

Grade Levels: 9, 10, 11, 12 Credit: 1

This course introduces basic weight lifting and cardiovascular endurance techniques.

Weight Lifting Football 33013

Grade Levels: 9, 10, 11, 12 Credit: 1

This course is designed for the highly competitive athlete. Students will study rules, strategies, and training techniques of football. This class will also include appropriate weight lifting.

Science

Agriscience 5957
Honors 59572

Grade Levels: 10, 11, 12 Credit 1

Agriscience consists of standards to prepare students for biology and subsequent science for the university bound student. The content area covers ecology, biological processes, sexual and asexual reproduction and a study of the chemical an physical laws that govern life. This course helps students understand the important role science serves as the agricultural industry. Satisfies lab science requirement.

Physical Science 3202

Grade Levels: 9, 10, 11, 12 Credit: 1

Students study scientific processes as they relate to the physical world. Topics include matter and energy relationships, the structure and properties of matter, and measurement. Lab experiences and mathematical calculations are included. Students must have a calculator.

Physical Science Honors 32025

Grade Levels: 9, 10, 11, 12 Credit: 1

This course covers all the topics of the physical science course but in greater depth. Students study scientific processes as they relate to the physical world. Topics include matter and energy relationships, the structure and properties of matter, and measurement. Lab experiences and mathematical calculations are included. Students must have a calculator.

Biology 1 3210

Grade Levels: 9, 10, 11, 12 Credit: 1

Biology 1 focuses on the organizational levels of all living things. The study includes the chemical make-up of life, the cell, tissues and organ systems, genetics, photosynthesis and respiration, diversity, and biological interactions. Lab work is an integral part of this class. End of course testing is mandated.

Biology I Honors 32107

Grade Levels: 10, 11, 12 Credit: 1

This class focuses on the same topics as the Biology 1 course; however, this class requires more reading, writing, and analytical thinking skills. End of course testing is mandated.

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Biology 1 Honors Dual 32108

Grade Levels: 11, 12 Credit: 1

Prerequisites: Biology 1

In this science lab, students will conduct experiments, collect and analyze data and interpret results. Students identify unifying principals and repeatable patterns in nature, the value of diversity, and apply them to problems of scientific nature. Biochemistry of cell function and plant and animal anatomy and physiology are the course of study. High school elective credit. College credit in BIO 1110. Students must meet the guidelines on the ACT Test (19) to take the course for college credit.

Biology 2 32161

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Biology 1

Biology 2 is a continuation of Biology 1 and focuses on genetics and inheritance, human genetics, interdependency of organisms, population ecology, energy flow through ecosystems, and the study of plants. Laboratory investigations do not rely on animal dissection.

Biology 2 Honors 3216

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Biology 1

Biology 2 involves a deeper study into cell biology. Chemical structure and how it affects cell function is discussed. Photosynthesis, respiration, reproduction, and gene regulation are presented. Dissection is used in a brief study of vertebrate comparative anatomy. This class requires more reading, writing, and analytical thinking skills.

Biology 2 AP 3217

Grade Levels 10,11,12 Credit: 1

Chemistry in the Community 32219

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Algebra 2

Chemistry 1 is a laboratory science course in which students investigate the composition as well as the physical and chemical changes of matter. Students use science process skills to study the fundamental structure of atoms, the way atoms combine to form compounds, and the interactions between matter and energy.

Chemistry 1 Honors 3221

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Biology 1 Algebra 2

The emphasis in this course is placed on the mathematical and scientific skills required of those students who will major in mathematical or scientific fields. It is recommended that this course be taken by those students who plan to major in Sciences, Health Sciences careers, and Engineering.

Chemistry 1 Accelerated Honors 32212

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Algebra 2

This course must be taken in the Spring Semester followed by Chemistry 2 in the Fall Semester by students who plan on taking AP Chemistry the following Spring Semester. Accelerated Honors Chemistry will cover in more detail the principles in honors chemistry and even more principles of chemistry.

Chemistry 2 Honors 3224

Grade Levels: 11, 12 Credit: 1

Prerequisites: Chemistry 1 Honors 3221

Honors Chemistry 2 will be an in-depth and fast-paced study of acids and bases, chemical reactions, calculations, oxidation- reduction reactions, chemical kinetics, and laboratory activities. This course is highly recommended for students majoring in Sciences, Health Sciences careers, and Engineering.

Chemistry AP 3225

Grade Levels: 11, 12 Credit: 1

*Prerequisites: Chemistry 1 Honors 3221,
Chemistry 2 Honors 3224*

This course is the second half of an all-year sequence consisting of Chemistry 2 and AP Chemistry. Students will receive AP Chemistry credit upon successful completion of the AP Chemistry exam. This course covers concepts to enable the student to take the AP Exam. Topics include atomic theory, molecular theory, reactions, gases, thermo chemistry, oxidation-reduction, stoichiometry, etc. Lab work is vital to the course. Students will need to be able to work after school.

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Ecology **3255**

Grade Levels: 10, 11, 12 Credit: 1

Prerequisites: Biology 1

Ecology is the study of the human effect on the environment. The interdependence of all organisms and the need for conserving natural resources are discussed. Required readings and presentations about current environmental science, writing on ecological issues, lab experiences, and special projects are essential to this class. This class will substitute for a lab science credit.

AP Environmental Science **3236**

Grade Levels: 11, 12 Credit: 1

Prerequisites: Biology 1 Chemistry 1

This class will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. This course serves as a lab science credit.

Physics Honors **3231**

Grade Levels: 11, 12 Credit: 1

Prerequisites: Biology 1 Chemistry 1 Honors

Honors Physics is the study of physical laws that govern our universe. Topics covered include Newtonian mechanics, motion, acceleration forces, gravity, momentum, work energy, thermodynamics and wave mechanics.

Anatomy & Physiology Honors **3251**

Grade Levels: 11, 12 Credit: 1

Prerequisites: Biology 1 Chemistry 1 Honors

This honors-level course is designed for the science student interested in the field Health Sciences (medicine, physical therapy, or sports medicine) or one interested in an in-depth study of the workings of the human body. It will provide a look at the organization of the body as a whole and then provide a detailed study of its structure and function. Extended reading and research are an integral part of this class.

Social Studies

Ancient History **3402**

Grade Levels: 9, 10, 11, 12 Credit: 1

This course will focus on the history of times long past. Students will develop an understanding of the relationships among persons and places, and an overall era's relationship with those proceeding and preceding it in the history of our world before the Renaissance.

Bible **3452**

Grade Level: 10,11,12 Credit: 1

Economics **3431**

Grade Levels: 11, 12 **Credit: .5**

Economics is a survey of the free-enterprise system and the role of consumers. Topics that will be covered are taxes, money and banking, supply and demand, inflation unemployment, competition, types of business, the stock market and the global economy.

Economics Honors **34315**

Grade Levels: 11, 12 **Credit: .5**

Economics is a survey of the free-enterprise system and the role of consumers. Topics that will be covered are taxes, money and banking, supply and demand, inflation unemployment, competition, types of business, the stock market and the global economy. This is a rigorous course that will require additional reading, writing, and analytical skills.

Personal Finance **3496**

(Honors) 34965

Grade Levels: 11,12 **Credit: .5**

This course is to be taken with Honors Economics 34315, Economics 3431, or Business Economics 3755. Personal Finance is required for graduation.

Psychology **3433**

Grade Levels: 9, 10, 11, 12 Credit: 1

Psychology is the science of the mind and the scientific study of the way the human mind works and influences behavior, or the influence of the particular person's character on behavior.

Psychology AP **3447**

Grade Levels: 11, 12 Credit: 1

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human

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beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students will sit for the AP exam in Psychology at the end of this course.

Sociology 3432

Grade Levels: 9, 10, 11, 12 Credit: 1
Sociology is the study of groups of people and their interrelationships with society.

U.S. Government 3407

Grade Levels: 11, 12 Credit: 1
U.S. Government is a study of the structure of government in the United States. The course examines the how and why of the American political system. Students apply their knowledge and personal experience to examine some of the basic problems facing our nation today.

U.S. History 3405

Grade Levels: 11, 12 Credit: 1
U.S. History is a chronological survey of the people and events that have shaped our nation's history from Reconstruction to modern times. End of course testing is mandated.

U.S. History Honors 34051

Grade Levels: 11, 12 Credit: 1
Honors U.S. History is a study of the social and political movements, philosophies, and national and international events that have created the present-day United States. Higher order thinking skills will be developed. End of course testing is mandated.

U.S. History AP 3440

Grade Levels: 11, 12 Credit: 1
This course is a continuation of Honors U.S. History. The class is structured to help students develop effective higher order thinking skills. Upon completion of the Advanced Placement (AP) course, students will be required to pass the AP exam in order to receive college credit.

World Geography 3410

Grade Levels: 9, 10, 11, 12 Credit: 1
This course is designed to expose students to the many nations and peoples of the Earth, including their histories, economics, locations, topographies, and social structures,

World History 3401

Grade Levels: 9, 10, 11, 12 Credit: 1
World History is a survey course covering the events and people from ancient to modern times.

Specialized Assignment

Peer Tutoring 9499

Grade Levels: 11, 12 Credit: 1
Prerequisites: Teacher Approval

This course would be excellent for those interested in teaching, childcare, and/or health occupations. This class requires that students work in the LRE classroom as a peer tutor to students who have disabilities.

Assist Principal -1st Sem 9210

Student assistant in administrative office. Must complete an application and be selected.

Assist Principal-2NDSem 92102

Student assistant in administrative office. Must complete an application and be selected.

Special Education

All students enrolled in Special Education classes must have an IEP and instructor approval.

Adaptive PE 33011

Grade Levels: 9, 10, 11, 12 Credit: 1

Prerequisites: None

This course provides an opportunity for students with disabilities to participate in and learn the rules and strategy of a variety of physical education activities.

Algebra 1A (SE) 31025

Grade Levels: 9, 10, 11, 12 Credit: 1

Algebra 1B (SE) 31026

Grade Levels: 10, 11, 12 Credit: 1

Basic Math 1 (SE) 91081

Grade Levels: 9, 10, 11, 12 Credit: 1

Basic Reading (SE) 91111

Grade Levels: 9, 10, 11, 12 Credit: 1

Biology 1A (SE) 32105

Grade Levels: 10, 11, 12 Credit: 1

English I (LRE) 91331

Grade Levels: 9, 10, 11, 12 Credit: 1

English 1 (SE) 30015

Grade Levels: 9 Credit: 1

English 2 (LRE) 91332

Grade Levels: 9, 10, 11, 12 Credit: 1

English 2 (SE) 30025

Grade Levels: 10 Credit: 1

End-of-course testing is mandated.

English 3 (SE) 30035

Grade Levels: 11 Credit: 1

English 4 (SE) 30055

Grade Levels: 12 Credit: 1

Math 1 (LRE) 91333

Grade Levels: 9, 10, 11, 12 Credit: 1

Math 2 (LRE) 91334

Grade Levels: 9, 10, 11, 12 Credit: 1

Mathematics (LRE) 9108

Grade Levels: 9, 10, 11, 12 Credit: 1

Transition at Central Office(SE) 91122

Grade Levels: 11, 12 Credit: 1

Work Based Learning-1stSemester

9498

Work Based Learning-- 2nd Semester

94982

Math, Social Skill, & Language

1st Semester 9133333

2nd Semester 9133339

3 Block Meeting Pattern for CDC students—IEP teacher approval

CAREER AND TECHNICAL EDUCATION (CTE)

Agriculture, Food, & Natural Resources

Agriscience (HQ) 5957 Honors 59572

Grade Level: 9, 10, 11, 12 Credit: 1
Agriscience is a laboratory science course that prepares students for biology, subsequent science courses and postsecondary pursuits. The content area includes ecology, biological processes, sexual and asexual reproduction and a study of the chemical and physical laws that govern life processes. This course helps students understand the important role agricultural science serves as industry moves into the 21st century.

Principles of Ag Mechanics 5944

Grade Levels: 10, 11, 12 Credits: 1
This course covers topics including project management, basic engine and motor mechanics, land surveying, irrigation and drainage, agricultural structures, and basic metalworking techniques.

Prerequisites: Agriscience (HQ)

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Ag Power & Equipment **5945**
Grade Levels: 11, 12 Credit: 1
The standards in this course address navigation, maintenance, repair, and overhaul of electrical motors, hydraulic systems, and fuel-powered engines as well as exploration of a wide range of careers in agricultural mechanics.
Prerequisites: Agriscience (HQ)

Supervised Ag Experience **5964**
Grade Levels: 9,10,11, 12 Credit: 1
A Supervised Agricultural Experience (SAE) is structured experiential learning opportunity that takes place in a setting outside of regular school hours.

Small Animal Science **5958**
Grade Levels: 10,11,12 Credit: 1
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.
Prerequisites: Agriscience (HQ)

Large Animal Science **6116**
Grade Level: 11,12 Credit: 1
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.
Prerequisites: Agriscience

Veterinary Science Honors **5961**
Grade Levels: 11,12 Credit: 1
Veterinary Science is an advanced 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.
Even years **REGULAR CREDIT**
Odd years **HONORS CREDIT**
Prerequisites: Agriscience (HQ)

Architecture & Construction

Applied Environmental Science 6114

Grade Level: 10,11,12 Credit: 1
Applied Environmental Science focuses on the knowledge, information, and skills related to the fundamental science and management of ecosystems as well as careers, leadership and history of the industry. This course covers principles of environmental impacts, energy consumption, and ecosystems management.

Prerequisites: Agriscience

Greenhouse Management 5954 Dual 59543

Grade Levels: 10,11,12 Credit: 1
This course covers principles of greenhouse structures, plant health and growth, growing media, greenhouse crop selection and propagation, and management techniques.

Prerequisites: Agriscience

Landscaping & Turf Science 5951

Grade Level: 11,12 Credit: 1
Landscaping and Turf Science is applied-knowledge course designed to provide challenging academic standards and relevant technical knowledge and skills needed for further education and careers in landscape design, maintenance, and turf management.

Prerequisites: Agriscience (HQ)

Organizational Leadership & Communications 5956

Grade Levels: 10,11,12 Credit: 1
Organizational Leadership and Communications is an applied-knowledge course for students interested in learning more about the attributes and skills of successful leaders in the Agriculture industry. This course covers organizational behavior, communication, management, and leadership topics.

Prerequisites: Agriscience (HQ)

Natural Resource Management 6117

Grade Levels: 11,12 Credit: 1
This course covers major types of natural resources and their management, public policy, the role of public education in managing resources, as well as careers, leadership, and history of the industry.

Prerequisites: Agriscience (HQ)

Construction Core 6073

Grade Levels: 9, 10, 11, 12 Credit: 1
This is a course that will introduce students to basic skills and knowledge applicable to all construction trades. Topics covered include safety, construction drawings, site layout, hand and power tools, linear and angular measurements, and application of algebraic and geometric principles to construction problems.

Carpentry 1 6035

Grade Levels: 10, 11, 12 Credit: 1 or 2
This is a course that will introduce 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. This course gives students an introduction to the skill and knowledge base typically required for apprentice carpenters.

Recommended Prerequisites: Construction Core

Carpentry 2 6036

Grade Levels: 10, 11, 12 Credit: 2
This is a course in which students will extend their skills and knowledge related to residential and commercial carpentry. Topics covered include stairs, installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior finish work, thermal and moisture protection, and an introduction to welding. This course gives students a substantial skill and knowledge foundation typically required for apprentice carpenters.

Prerequisites: Construction Core, Carpentry 1

Arts, Audio/Visual Technology, & Communications

Digital Art & Design 1 and/or Photography **6084**

Grade Levels: 9,10,11,12 Credit: 1
Course content is designed to foster skills and understanding that are essential in modern digital graphics, motion graphics and photography.

Digital Art & Design 2 and/or Yearbook **6086**

Grade Levels: 10,11,12 Credit: 1
This is a course that builds on the foundational core elements learned in Digital Arts and Design 1. Course content is designed to reinforce skills in modern digital graphics, publishing, and photography.

Prerequisite: Digital Art and Design 1

Digital Art & Design 3 and/or Yearbook **6087**

Grade Levels: 11,12 Credit: 1
This course will foster advanced integrated skills that are essential in digital graphics, motion graphics, publishing, web, film/video, photography, and animation graphic industries.

Prerequisite: Digital Art and Design 1

Animation/Simulation & Motion Graphics **6044**

Grade Levels: 10,11,12 Credit: 1
This course builds on foundational elements of visual communication learned in Digital Arts and Design classes. Course content is designed to develop a strong knowledge in animation and software applications, new media graphics and the latest visual communication technologies.

Prerequisite: Digital Art and Design 1

Fashion Design 1 **6008**

Grade Levels: 11, 12 Credit: 1
This course is designed to prepare students interested in having a career in the fashion industry. Students will make a garment, design a visual representation of a store layout, analyze principles of merchandising, and create a window presentation incorporating an original garment design and accessories.

Offered--**ODD YEARS**

Prerequisite: Foundations of Fashion Design

Foundations of Fashion Design **6120**

Grade Levels: 10, 11, 12 Credit: 1
This course introduces students to the fashion industry. Students will learn basic construction skills, design elements, and history of fashion. Students will learn to make a basic garment, learn how to use a sewing machine, and fiber identification.

Prerequisite: Visual Art 1

Business Management & Administration

Accounting I 5910

***** Dual 59103 –FALL Semester Only**

Grade Levels: 11,12 Credit: 1
Accounting introduces concepts and principles based on a double-entry system of maintaining financial records for businesses. This course provides the basic understanding of the language of business. This is NOT a math-based class.

Advanced Computer Applications 5904

Grade Levels: 9,10,11,12 Credit: 1
This course is a capstone course in which students will learn necessary skills in problem solving using current and emerging integrated technology to include a variety of input technologies in the production of professional quality business documents and presentations. The course focuses on student choice, accountability, and performance. This course may articulate to post-secondary education. *Prerequisites: Computer Applications*

American Business & Legal Systems (ABLS) - 1st Semester 5892

2nd Semester 58924

Honors 58925

Grade Levels: 11,12 Credit: 1
This course provides students with an understanding of the legal framework in which American business functions. Students will learn how law applies to everyday life and decisions. Topics include property, employment, marriage, divorce, and government. This course fulfills the required government credit.

Business Economics (CTE) 5898

Grade Levels: 11,12 Credit: .5
This course provides an overview of economics including production, marketing, taxes, trade and business structures. Students will explore the roles financial institutions, the government and consumers play in the economy. This course fulfills the economics graduation requirement and must be taken with Personal Finance.

Personal Finance (CTE) 5901

Grade Levels: 11,12 Credit: .5
This course covers real world topics including income, money management, credit, saving and investing. Students design personal budgets, learn how to use checking and saving accounts, understanding how to use debt and credit wisely and understand insurance and taxes. This course fulfills the Personal Finance graduation requirement and must be taken with Business Economics.

Computer Applications 5891

Grade Levels: 9,10,11,12 Credit: 1
Computer Applications will teach students the computing fundamentals and concepts involved in the proficient use of common application software in word processing, spreadsheets, data bases, and presentations.

Interactive Multimedia

1st Semester 5897

2nd Semester 58972

Grade Levels: 9, 10, 11, 12 Credit: 1
In this course students will apply keying, typography, layout, and design skills. The student will use interactive multimedia tools to develop electronic presentations. Copyright laws and ethics 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 projects(s).
Prerequisites: Computer Applications I

Education and Training

Fundamentals of Education 6123

Grade Level: 10, 11,12 Credit: 1
A foundational course that teaches the basics of education. This course allows students to examine teacher responsibilities, learning styles, and personal aptitudes for the teaching profession

Teaching As a Profession 1 6010

Grade Level: 11, 12 Credit: 1
Students will develop teaching strategies, lesson plans, and educational materials that will later be used in field experience at a local elementary school.

Prerequisites: Fundamentals of Education

Teaching As a Profession 2 6125

Grade Level: 12 Credit: 1
This course is offered every odd year. A more in depth education course that teaches specific teaching strategies, classroom behavior, and planning.

Prerequisites: Teaching As a Profession 1

Health Science

Health Science Education 5998

Grade Levels: 9,10,11,12 Credit: 1
This course is an introduction to Health care occupations and functions across health services. Units included are academics in health care communication systems, legal responsibilities, ethics, teamwork and safety practices. **This class is a prerequisite for all POS in health science.**

Medical Therapeutics 5999

Grade Levels: 10,11,12 Credit: 1
This course is designed to prepare students to pursue careers in therapeutic services. Students will identify careers in therapeutic services. They will learn to assess, monitor, evaluate and document patient status. They will identify the purpose and components of treatments.

Prerequisites: Health Science

Diagnostic Medicine 5994

Grade Levels: 11,12 Credit: 1
This course focuses on diagnosing the illnesses in the human body. Also, focus will be placed on the careers related to diagnostic medicine.
Suggested Prerequisites: Health Science

Anatomy and Physiology—CTE 5991

Grade Levels: 10,11,12 Credit: 1
Students will examine human anatomy and physiology of body functions related to health and diseases. This will NOT count as a science credit, **CCHS only.**

Nursing Education--Honors 6000

Grade Levels: 11,12 **Credit: 2**
Nursing Education teaches direct bedside nursing care. Clinical experience will consist of supervised practice in the nursing home, as well as demonstrations in the classroom. Students can be registered by Tennessee Department of Health after the completion of the course and will be job ready.

Prerequisites: Health Science

Hospitality/Tourism/ and Marketing

Emergency Medical Service EMS Dual 5995

Grade Levels: 11,12 Credit: 1
EMS is designed for students interested in a career in pre-hospital or emergency patient care. Career options may include emergency room physician, emergency medical technician, paramedic, or emergency room nurse. First responder certification is available.

Prerequisites: Health Science

Forensic Science Honors 5996

Grade Levels: 11,12 Credit: 1
This course is an overview of how science is applied to solving crimes. Analyzing results and hands-on applications of many laboratory techniques will be explored.

Prerequisites: Health Science

Medical Terminology Dual 5883

Grade Levels: 11,12 Credit: 1
This course will develop a working knowledge of the language of health professions. Understanding and interpreting medical language as it relates to the care and well being of a patient will be the primary focus.

Cardiovascular 6131

Grade Levels: 11,12 Credit: 1
This course will concentrate on the diagnosis and treatment of patients with cardiac disease. Upon graduation, students will take the certified cardiographic technician exam.

Prerequisites: Health Science, Diagnostic Medicine, or Anatomy and Physiology

Culinary Arts 1 5979

Grade Levels: 10, 11, 12 Credit: 1
This is the first level of Culinary Arts and prepares students for employment in the food production and service industry and/or entry into Culinary Arts post-secondary schools. This course is designed to introduce students to information such as safety and sanitation, commercial equipment, knife skills, customer service skills, food preparation, and various cooking methods.

Culinary Arts 2 5980

Grade Levels: 10, 11, 12 Credit: 1
This is the second level of Culinary Arts and prepares students for employment in the food production and service industry and/or entry into Culinary Arts post-secondary schools. This course is designed to introduce students to information such as menu planning, management, Garde Manger, and principles of baking. Students take this course will also further advance their food preparation and customer service skills.

Prerequisites: Culinary Arts 1

Culinary Arts 3 5981

Grade Levels: 11, 12 Credit: 1
This is the third level of Culinary Arts and prepares students for employment in the food production and service industry and/or entry into Culinary Arts post-secondary schools. This course is designed to advance students in the areas of Garde Manger, menu planning, management roles and responsibilities, and dining room operations. Taking this course will also allow students to master their baking and food preparation skills.

Prerequisites: Culinary Arts 1 & 2

Human Services

Marketing & Management 1: Principles 5931

Grade Levels: 10,11,12 Credit: 1
This course focuses on the study of marketing concepts and their practical applications. Students will examine the risks and challenges that marketers face to establish a competitive edge in the sale of products and services. Topics covered include foundational marketing functions such as promotion, distribution, and selling, as well as coverage of economics fundamentals.

Marketing & Management 2: Advanced Strategies 5932

Grade Levels: 10,11,12 Credit: 1
This course is a study of marketing concepts and principles used in management. Students will examine the challenges, responsibilities, and risks managers face in today's workplace. Subject matter includes finance, business ownership, risk management and marketing.
Prerequisites: Marketing 1

Co-op/Work Based Learning 1st Semester 6105 2nd Semester 61052

Grade Levels: 11, 12 Credit: 1
This course is designed to be a work-based learning opportunity. Students are released at the beginning of 4th Block to a marketing-related job. Students will receive credit for class work and work experience. *Prerequisites: Must have taken or be enrolled in a Marketing Class*

Sports & Entertainment 5939

Grade Levels: 11,12 Credit: 1
This is a specialized course designed for students to develop skills in the areas of facility design, merchandising, advertising, public relations/publicity, event marketing, sponsoring, ticket distribution, and career opportunities as they relate to the sports and entertainment industry. *Prerequisites: Market 1*

Child & Lifespan Development 6013

Grade Levels: 9, 10, 11, 12 Credit: 1
This course builds basic knowledge in human growth and development. This includes developmental theory, principles of growth, behavior of children from conception through adolescence, adult development and aging, and death and dying.

Family Studies 6136

Grade Levels: 9, 10, 11, 12 Credit: 1
This course examines the diversity and evolving structures of the modern family. Course standards focus on the demographic, historical and social changes of interpersonal relationships, parenting and the effect of stressors on the family.

Introduction to Human Services 6137

Grade Levels: 9 Credit: 1
This is a beginning class for students interested in becoming a social worker, dietician, nutritionist, counselor, or community volunteer. Students will investigate the communication skills and prepare a portfolio.

Nutrition Across the Lifespan 6005

Grade Levels: 9, 10, 11, 12 Credit: 1
This course is for students interested in learning more about becoming a dietitian, nutritionist, counselor or pursuing a variety of scientific, health or culinary professions.

Law, Public Safety, Corrections, & Security

Criminal Justice 1 **5987**

Grade Levels: 9, 10, 11, 12 Credit: 1
This is the first level of study of criminal justice careers. This course provides an overview of how the law enforcement, legal, and correctional system interact with each other in the United States. Current issues will be researched in the context of local, state, and federal laws.

Criminal Justice 2: CSI **5988**

Grade Levels: 10, 11, 12 Credit: 1
This course continues and builds upon topics covered in Criminal Justice I. From initial crisis scenario management to arrest, transport, trial, and corrections, procedures and laws governing the application of justice in the United States are examined in detail, with special emphasis on the best practices and professional traits required by law enforcement and legal professionals. This course prepares students for advanced work in crime scene analysis and forensic science, and offers strong knowledge and skill preparation for postsecondary or career opportunities in associated fields.

Prerequisites: Criminal Justice 1

Criminal Justice 2: CSI Dual **59883**

Grade Levels: 10, 11, 12 Credit: 1
An overview of the American Police, including the philosophy and historical evolution behind the police force. Emphasis on policing procedures; crime prevention and control; functions of Completion of any Reading and English Learning Support requirements. Course designed for transfer and part of the TN Transfer Pathways.

***Dual enrollment courses are conducted in cooperation with RSCC and students must achieve a score of at least 19 on the reading portion of the ACT or on the 10th grade PLAN Test.

Criminal Justice 3: Forensic Investigations **5989**

Grade Levels: 10, 11, 12 Credit: 1
This is the final 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.

Prerequisites: Criminal Justice 2

Criminal Justice 3: Forensic Investigations Dual **59891**

Grade Levels: 11, 12 Credit: 1
Fundamentals of criminal investigation procedures; crime scene search and recording, collecting and preserving evidence; scientific and technical aids; case preparation. Prerequisite: Completion of any Reading Learning Support requirements. Not part of a TN Transfer Pathway.

***Dual enrollment courses are conducted in cooperation with RSCC and students must achieve a score of at least 19 on the reading portion of the ACT or on the 10th grade PLAN Test.

STEM

Foundations of Technology/ Engineering 1 5917

Grade Levels: 9,10,11,12 Credit: 1
This course integrates STEM in problem-solving, project-based learning, and engineering design helping all students develop a better understanding of information and communication, construction, manufacturing, and power and energy technologies with a focus on design, mathematical proof, safety, modeling, and problem solving.

Technological Design/ Engineering 2 5885

Grade Levels: 10,11,12 Credit: 1
In Technological Design, engineering scope, content, and professional practices are presented through practical applications. Students in engineering teams apply technology, science, and mathematic concepts and skills to solve engineering design problems and innovative designs. Students research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors, and ethics. *Prerequisites: Engineering 1*

Advanced Design Applications/ Engineering 3 5920

Grade Levels: 10,11,12 Credit: 1
This course will continue student education in Science, Technology, Engineering, and Mathematics (STEM). Students will experience design engineering in the creation, synthesis, iteration, and presentation of design solutions. This course is designed to prepare high school students who plan to study post secondary engineering programs.

Prerequisites: Engineering 2

Engineering Design/ Engineering 4 -- Honors 5921

This course is a capstone or AP level course. Students in engineering teams apply technology, science, and mathematics concepts and skills to solve engineering design problems and project-based learning. Students research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors, and ethics.

Transportation, Distribution, & Logistics

Maintenance & Light Repair 1 (MLR1)

Introduction to Auto Mechanics 5879

Grade Level: 9, 10, 11 Credit: 1
In this course students will be introduced to the basics of automotive principles. Students will master safety, tool identification, basic automotive functions and maintenance. This course will teach students to build a strong basis for future auto classes. There will be a \$10 shop fee.

Maintenance & Light Repair 2 (MLR2) Auto Electrical/Electronic Systems 5880

Grade Level: 9,10, 11 Credit: 1
In this second level course students will be introduced to the basics of electronic diagnosis, battery testing, wiring diagrams and basic automotive charging and starting systems. Students will also inspect, repair and diagnose lightning systems. There will be a \$10 shop fee.
Prerequisites: MLR 1

Maintenance & Light Repair 3 (MLR 3) Auto Brakes & Suspension Systems 5881

Grade Level: 10, 11, 12 Credit: 1 or 2
Students will explore all types of braking systems. MLR 3 will include the study of disc and drum brakes. Students will learn how to measure rotors using a brake lathe. Students will service and repair ABS brakes and parking brake mechanisms. Students will learn how to service all steering and components. There will be a \$10 shop fee.

Prerequisites: MLR 1 and MLR 2

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**Maintenance & Light Repair 4
(MLR 4) Transmission/Air
Conditioning/Engine Performance 5882**

Grade Level: 11, 12 Credit: 1 or 2
This is a very diverse class that will give the aspiring automotive technician a wide range of more complicated areas of the automotive industry. Students will disassemble and reassemble automatic transmissions. Students will diagnose and service automotive A/C systems and use advanced scan tools to diagnose engine performance related problems in the power train of a vehicle. There will be a \$10 shop fee.

***** ALL STUDENTS TAKING
THIS CLASS MUST BE
APPROVED BY THE
INSTRUCTOR !!!!!!! *****

Introduction to Aerospace 6068

Grade Levels: 9,10,11,12 Credit: 1
This is a foundations course for students interested in pursuing careers in aviation. This course covers the basic principles governing flight and the regulation of flight that every aviation professional must know regardless of his or her occupation—as a pilot or an engineer, a salesperson or a specialist, a mechanic or a statistician. This is the preparatory class for further study in advanced Aviation Flight courses.

Aviation I: Principles of Flight 6070

Grade Levels: 10,11,12 Credit: 1
This course builds on the fundamental knowledge and skills learned in Introduction to Aerospace while teaching students the essential competencies needed for flight under normal conditions. Upon completion of this course, students will be able to apply knowledge, skills, and procedures in a variety of simulated flight environments. Moreover, students who complete this course will have the opportunity to move on to advanced study in Aviation II: Advanced Flight.

Aviation II: Advanced Flight 6148

Grade Levels: 10,11,12 Credit: 1
This is the capstone course in the Aviation Flight program of study intended to prepare students for careers in aviation. Students in Aviation II will receive instruction in preparation to take the Federal Aviation Administration (FAA) Private Pilot written exam (Private Pilot Ground Test). Continued emphasis is placed on maintaining the safety of flight and developing sound judgment (“judgment training”) throughout these conditions.

Tennessee College of Applied Technology (TCAT)

Classes taken at Tennessee College of Applied Technology at Crossville (TCAT) provide high school students with better employment opportunities and/or preparation for college or university. High school students have the opportunity to dual enroll in classes at TCAT as part of their high school schedule. Dual enrollment means credits earned at TCAT lead to advanced placement should a student decide to return to TCAT after high school graduation.

High school students enrolled at TCAT normally attend 1st and 2nd block or 3rd and 4th block for the semester. Special permission from the TCAT director is required if a student wishes to attend all day (four blocks) or if a student wishes to take first or fourth block only in Computer-Aided Drafting (CAD).

Most TCAT classes require pre-requisite(s). Please note that TCAT programs may be taken more than one time for additional credits. Please check with your counselor for details.

COLLISION REPAIR

Non-Structural Collision Repair (TCAT-ColRep) 6062

Grade Levels: 11, 12 Credit: 2
*Prerequisites: Transportation Core and/or
Teacher approval*

This program prepares students to analyze non-structural collision damage to a vehicle, determine the extent of the damage and the direction of impact, and initiate an appropriate repair plan. Course content includes metal finishing, body filling, welding, panel replacement, and glass panel replacements. The course prepares students for entry level employment and advanced training in collision repair technology, and post-secondary education.

DRAFTING

Computer Aided Drafting (TCAT-CAD) 6037

Grade Levels: 11, 12 Credit: 2
*Prerequisites: English I Algebra I
Basic computer skills*

This first pre-engineering design course is designed to introduce the student to the design process in the architectural profession and to teach the basic "tools-of-the-trade." This course leads the student through a detailed study of the Architecture, Drafting, Engineering and Interior Design professions. This course also focuses on basic two dimensional engineering drawing/drafting skills where emphasis is placed on freehand sketching and Computer Aided Drafting (CAD). Students work in teams on a class project to create a comprehensive set of construction assembly drawings for a mechanical project. The curriculum is certified by the American Design Drafting Association.

Drafting and Design (TCAT-CAD&D) 6039

Grade Levels: 11, 12 Credit: 2
In Advanced CAD, students are introduced to three-dimensional, solid modeling visualization.

EARLY CHILDHOOD EDUCATION

Early Childhood 1 (TCAT-Child1) 6015

Grade Levels: 10, 11, 12 Credit: 2

Prerequisites:

*Child & Lifespan Develop & 3 teacher
recommendations*

Early Childhood 2 (TCAT-Child2) 6016

Grade Levels: 10,11,12 Credit: 2

Prerequisites: Early Childhood 1

Early Childhood 3 (TCAT-Child 3) 6017

Grade Levels: 10, 11, 12 Credit: 2

Prerequisites: Early Childhood 2

Early Childhood Education (ECED) prepares students for employment in entry-level positions in occupations related to childcare. Emphasis in the course is upon applying knowledge of how children grow and develop, guiding children's behavior, as well as planning and supervising activities, which are developmentally appropriate for children. These skills are obtained through a hands-on day care center environment for children ages 3 to 5. These courses prepare students for future CDA (Child Development Associates) credential course work for Early Childhood Education Teachers.

ELECTRONICS

Electronics 1 (TCAT-Elec 1) 6089

Grade Levels: 11, 12 Credit: 2

This program is designed for students seeking careers in the fields of Industrial, Computer, and Telecommunication Electronics. This program helps to build a basic understanding and familiarization of safety and common core electronic principles such as basic direct current circuit components, their operation and the proper usage of DC testing equipment, tools, and procedures.

Electronics 2 (TCAT-Elec 2) 6090

Grade Levels: 11, 12 Credit: 2

This program is a continuation of Electronics Technology 1. This program helps to build a basic understanding and familiarization of common core electronic principles in direct current circuit operation including complex DC circuits and the proper usage of electronic testing equipment, tools, and procedures used in those circuits.

Intro Electronic Mechanical 6091

Grade Levels: 11, 12 Credit: 2

This program is a continuation of Electronics Technology 2. This program helps to build a basic understanding and familiarization of common core electronic principles in alternating current circuit components, their operation and the proper usage of AC testing equipment, tools, and procedures.

Digital Electronics 5925

Grade Levels: 11, 12 Credit: 2

This program is a continuation of Electronics. This program helps to build a basic understanding and familiarization of common core electronic principles in alternating current circuit operation including RL and RC series and parallel circuits, and the proper usage of AC testing equipment, tools, and procedures used in those circuits.

MACHINE TOOL TECHNOLOGY

Principles of Machining (TCAT-Mfg) 5922

Grade Levels: 11, 12 Credit: 2

Prerequisites: Algebra 1

This course focuses on the essential principles that must be mastered for a person to be effective in the Machine Tool Technology trade.

Machinists and the machine tool trade often touch a part of everyone's life without them knowing it. The items produced within the trade can range from jewelry to aerospace parts.

Students will be trained in the proper use and safety of milling machines, conventional lathes, drill presses and surface grinders. Students will learn to interpret blue-prints and basic machining mathematics. The course is intended for students who are interested in learning to manufacture useful tools and component parts for numerous applications. Whenever possible, students are allowed to manufacture parts of their own design as well. The course also counts as Dual Credit toward the TCAT diploma.

Principles of Machining & Manufacturing I (TCAT-Mfg) 5929

Grade Levels: 11, 12 Credit: 2

This course builds on Principles of Machining 5838. The student advances to more complex machining operations and specialized attachments. This course also utilizes training in the operation and programming of computer numerical controlled (C.N.C.) milling machines, lathes and wire electro-discharge machines. Training is also provided in computerized machining and design software. Using Dual Credit this course prepares the student for the final components of the TCAT Machinist 1 diploma as well as the ability to work as an entry level machinist.

Principles of Machining & Manufacturing 2 (TCAT-Mfg) 5923

Grade Levels: 11, 12 Credit: 2

WELDING

Introduction to Welding 1 (TCAT-Weld1) 6078

Grade Levels: 11, 12 Credit: 2

Prerequisites: Algebra I

*Construction Core or
Agricultural Mechanics*

In this course students will learn basics skills and knowledge related to cutting and welding applications. Course content includes safe practices, career research, leadership development, and basic arc welding and thermal cutting skills.

Basic Principle Welding 2 (TCAT-Weld2) 6034

Grade Levels: 11, 12 Credit: 2

Prerequisites: Introduction to Welding

This course is designed to follow Introduction to Welding, in which students will learn more advanced skills and knowledge related to cutting and welding applications. Development of welding and cutting skills will be continued in the context of a series of projects.

Adv Welding Applications 3 (TCAT-Weld3) 6033

Grade Levels: 11, 12 Credit: 2

Prerequisites: Basic Principles of Welding

This course is third in a series designed to give the student additional practice and instruction in welding procedures and processes common in industry. Specific operations such as grinding, flame cuttings metal preparation, and the use of tools and equipment related to welding are included. Instruction in related math, physical properties of metal, and effects of heat, shrinkage, basic joint design, layout, and fabrication is included. American Welding Society Entry Level I.

THE END 2-25-2014_{njh}

5:00 pm update new course numbers