LENOIR CITY HIGH SCHOOL

COURSE CATALOG

2023-2024

CLASS OF 2023
CLASS OF 2024
CLASS OF 2025
CLASS OF 2026

The mission of Lenoir City Schools is to nurture the talent, intellect and character of each student in order to prepare them to be active citizens of a global community.

CLICK THE OUTLINE IMAGE TO THE LEFT TO EXPAND THE OUTLINE AND REDIRECT TO ANY SECTION WITHIN THE 2022-2023 COURSE CATALOG. TABLE OF CONTENTS LISTINGS LINK TO THE LCHS WEBSITE. CLASS TITLES LINK SYLLABUS INFORMATION FROM THE INSTRUCTOR.

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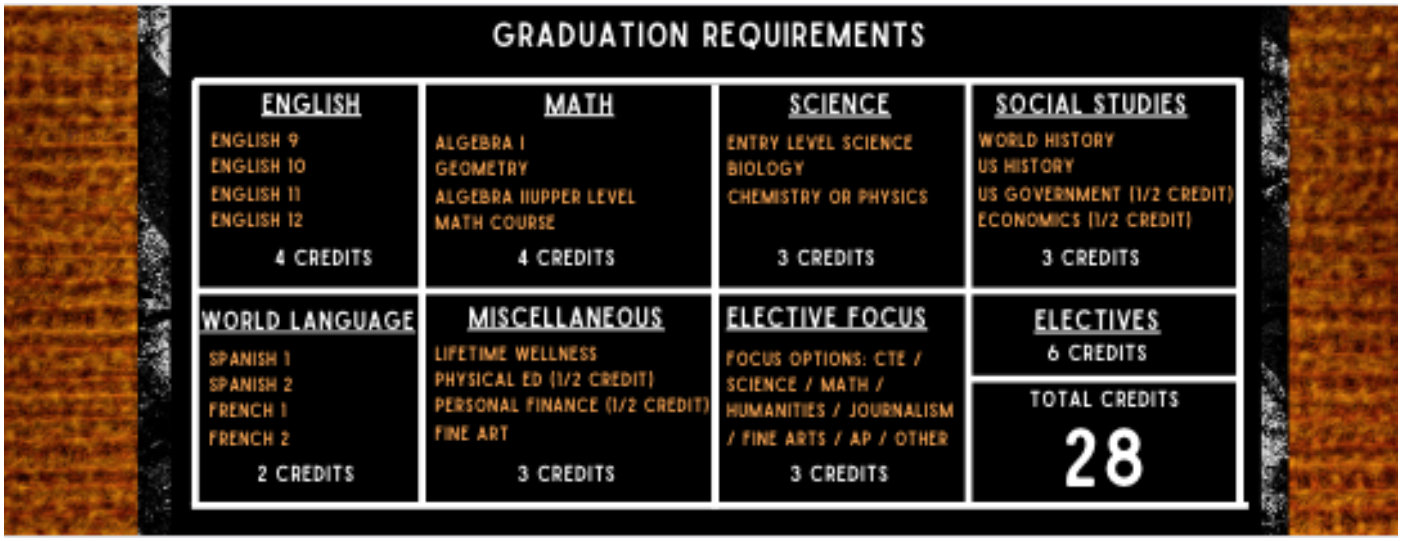


MATH: All students must enroll in a Mathematics course each year of high school. Students who have not earned a 19 on the Mathematics component of the ACT by the end of the junior year, must complete Math Reasoning or SAILS Statistics

SCIENCE: All students must earn 3 Science credits. The Science program must include Biology and Chemistry or Physics.

WORLD LANGUAGE: All students must earn 2 credits in the same world language. World Language may be waived for students not planning to attend a 4-year college or university and be REPLACED with 3 courses designed to enhance and expand the elective focus. A parent or guardian must sign a waiver form.

ELECTIVE FOCUS: The Elective focus must be a program of study in a particular area of concentration. Elective focus options include Career & Technical Education pathways, Fine Arts, Humanities, Journalism, Science, Math, Advanced Placement, or other.

ELECTIVES: There are a wide variety of electives to choose from at Lenoir City High School. These will be listed throughout this course catalog and on the elective choice list when students select classes in the spring for the next school year.

PRE-ACT FOR SOPHOMORES

Lenoir City High School is now offering the pre-ACT for sophomore students during the spring of their sophomore year. We are offering this at no cost to students. While the pre-ACT doesn't count for college admission, studies show that taking the ACT multiple times increases scores. Pre-ACT scores qualify students for entrance into Dual Enrollment courses.

ACT FOR JUNIORS/SENIORS

The State Department of Education requires ALL juniors in Tennessee to take the ACT test. The ACT will be given to all juniors during the school day in the spring semester. A retake will be offered to seniors in the fall of the 12th grade year.

ACADEMIC INCENTIVE PROGRAM (AIP)

The Academic Incentive Program has three levels of participation: Gold, Silver, and Bronze. Eligibility is based on prior term grades and memberships are renewed each semester. Freshmen may apply for the program using final grades from middle school.
More information regarding AIP can be found in the Student Handbook and online at https://lchs.lenoircityschools.com

COURSE PLANNING

In ninth grade, all students will make a Six-Year plan of study with the assistance of their parents and an advisor. This program will be reviewed each year. The purpose is to connect the student's academic and career goals to the appropriate high school courses. Students must choose a focused program of study preparing them for post-secondary education in a college/university curriculum or in technical training.

CREDIT EARNED

All credit is awarded on a semester basis. A credit will be given for each passing grade.

STUDENT COURSE LOAD

Students in grades 9-12 should be enrolled full time for eight (8) semesters. Students should be enrolled in four (4) courses per semester to be considered a full-time student. Seniors may request one "release" per semester if all graduation requirements are being met (i.e. late arrival or early release).

NCAA GUIDELINES

In order to earn a scholarship and participate in Division I or II college athletics, a high school student must earn a certain GPA in a core curriculum of at least 16 academic courses. In addition, students must meet the guidelines for the composite score of the ACT or SAT exams. The NCAA accepts national and state official test scores. Please keep in mind that certain courses (Applied Mathematical Concepts, SAILS Statistics, Agriscience, etc.) complete the

graduation requirements for the State of Tennessee, but are NOT recognized by the NCAA as a core course. The NCAA does not accept credit recovery; however, they currently do accept online coursework from the iLearn Institute through Lenoir City High School. Please refer to the NCAA Clearinghouse for further details at www.eligibilitycenter.org

RTI² - RESPONSE TO INSTRUCTION AND INTERVENTION

In addition to strong core instruction in a high expectations environment, the RTI² framework includes support for students who need it. Tiered interventions in the areas of reading, math, and/or writing occur in general education depending on the needs of the student. The RTI² Team at Lenoir City High School will review data that is collected on students such as: IReady scores, AIMSWeb scores, Middle School TCAP scores, classroom grades, EOC test scores, and teacher feedback. The team will determine if a student might benefit from academic intervention. Although he/she will be enrolled in an English or Math class to receive daily reading/math instruction (Tier 1), he/she might have a need for additional intervention. If intervention is needed, the student will receive additional time for reading/writing/math instruction each day in Tier II (30 minutes per day) or Tier III (45 minutes per day) during an academic support block. Intervention will be delivered in small groups with trained personnel using research-based materials. We will monitor progress to measure his/her response to intervention.

SCHEDULE CHANGES

Staffing decisions are based on students' course requests made during the registration process. Therefore, courses selected during registration should be considered as final. Any change in your schedule necessary to meet a specific educational requirement, should be arranged before school starts. We can not change schedules to accommodate specific time, teacher, or lunch requests. Please note that there may be times when you do not receive every class you request. Examples of these situations would include course time conflicts, space limitations, or unforeseen changes in course availability.

STATE TESTING

For 2023-2024:

- English: 9 & 10
- Math: Algebra I, Geometry, & Algebra II
- Science: Biology (10th grade)
- Social Studies: US History SDC (students will take the Challenge Exam 11th grade)

Some of these assessments will include both constructed response and multiple-choice items. The constructed response and multiple-choice assessments will be administered separately and online.

TOP HONORS / VALEDICTORIAN & SALUTATORIAN / CLASS RANKING POLICY

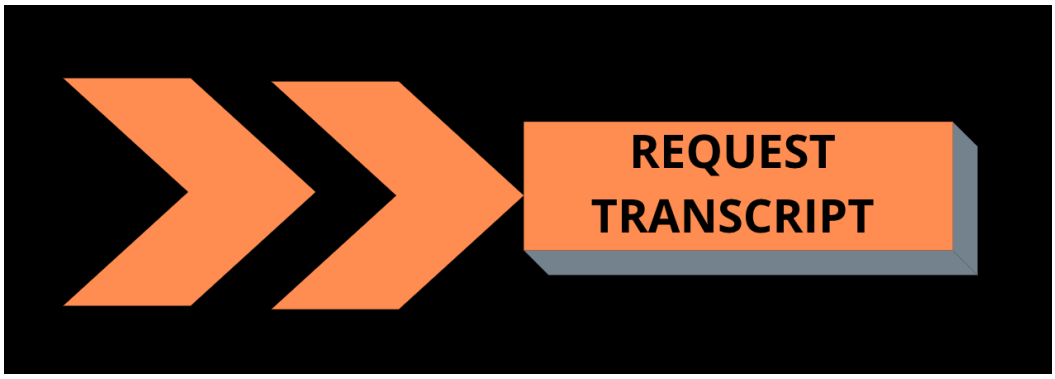
The top honors students must complete a rigorous and diverse curriculum. After top honors have been considered, the remaining class will be ranked according to the final overall GPA of students calculated according to the State Board of Education's Uniform Grading Policy.

A rigorous and diverse curriculum is defined as including all courses required for Lenoir City High School graduation and the maximum number of credit opportunities available (32) in the regular school program. Furthermore, top honors students will be recognized only upon achieving the expectations set forth by the General Assembly Merit Scholarship (GAMS) at the time of graduation. Currently, those requirements include a 3.75 grade point average and an ACT composite score of 29 (or composite/concordant equivalent on the SAT). The valedictorian and salutatorian are deemed the students from this group with the highest GPA

as calculated according to the State Board of Education's Uniform Grading Policy (or if tied), the highest ACT composite score (or if tied), or the highest numerical average (0-100) who have also successfully completed 5 or more Early Post Secondary Opportunities (EPSOs - Advanced Placement, dual enrollment, statewide dual credit, or any other EPSO approved by the TN Dept. of Ed) including at least one in each core subject area: English, Math, Social Studies, and Science.

TRANSCRIPTS

Students who need to send an official transcript to a selected post-secondary institution MUST fill out a Transcript Release Form. Please follow all instructions on the Transcript Request or the Registrar will not send your transcript.



CLICK HERE TO REQUEST TRANSCRIPT

We ask that requests be made two (2) weeks prior to any deadline to ensure sufficient delivery time.

Dylan Brewster

FRESHMAN SEMINAR INSTRUCTOR
BOYS BASKETBALL COACH

Freshman Academy

Beginning the 2023-2024 school year, LCHS will implement a Freshman Academy. The purpose is to guide and care for the social, emotional, and academic needs of our freshmen in their transition to high school and in the development of skills essential for success in high school and life beyond the classroom. Through Core Content, Electives, Advisory, and our new Freshman Seminar course, our students will develop skills necessary to succeed throughout high school.

Freshman Academy will welcome 9th graders to LCHS, provide a smaller learning community to build connections with teachers and classmates, and prepare students to select an elective focus for Grades 10-12.

This happens in several ways:

- Freshman English, Math, Social Studies, and Freshman Seminar classes will be located in one hallway to provide a smaller learning community.
- Freshman Seminar will be a required nine-week course (½ semester) paired with PE (½ semester) to complete a full semester of coursework. Freshman Seminar will touch on the core values of Lenoir City High School, help students understand the wide variety of activities and academia we offer, and allow for career exploration before the students

choose an elective focus. This class will help students embrace how we, at the High School, want to represent ourselves, the school, and the community.

- Students will develop their six year plan in their Freshman Advisory class and will understand the advanced academic and CTE opportunities at LCHS. Students can also receive academic support during this time.
- All Freshmen will be paired with a Panther Crew mentor (upperclassman mentor) that will help students with school involvement and how to navigate LCHS.

The transition from middle school to high school is essential for academic success, and our Freshman Academy will prepare students for a successful high school experience.

EARLY POST-SECONDARY OPPORTUNITIES (EPSO)

Early post-secondary opportunities (EPSOs) are identified as courses and/or exams that provide broad opportunities and access to ensure student readiness for future education and careers. At LCHS, these EPSO experiences are provided through Advanced Placement (AP) courses, Dual Enrollment, Statewide Dual-Credit, and CTE-related Industry Certifications. Research has shown that students who participate in EPSOs are more likely to enroll and persist in post-secondary environments, creating greater opportunities for future success.

HONORS (H) / ADVANCED PLACEMENT (AP)

Honors and Advanced Placement coursework is accelerated and more sophisticated. High quality, upper-level work results in increased student demands. These classes require the student to be more independent; therefore, a more mature sense of dedication to academic growth is essential to success. AP courses use College Board (www.collegeboard.com) approved curriculum and syllabi. All students enrolled in AP classes are expected to take the Advanced Placement Exams offered in the spring. Additional AP course offerings are available through AP Access for All.

DUAL ENROLLMENT (DE)

Students who elect to take college courses while enrolled in high school may earn a high school credit and equivalent college credit hours for the same course. At two or four year colleges, students typically qualify for dual enrollment by completing the 10th grade, earning a minimum of a 3.0 GPA, and scoring a 19 on the ACT. Students can also qualify for dual enrollment by having a 3.6 GPA. At TCAT, eligibility is based on selected program of study and counselor recommendation. Grades in these courses are reflected in the high school grade point average but are not considered when determining Hope Scholarship (Lottery) renewal criteria. LCHS students can earn credits at any post-secondary institution with a participating program. Some of the more common schools are Roane State, Pellissippi, South College, UT-Martin, TN Wesleyan University, and the TN College of Applied Technology. Contact the dual enrollment coordinator at the college or university for more information on schedules, credits, and registration. **Lenoir City High School makes no guarantee nor has the authority to transfer dual enrollment courses between post-secondary institutions.**

INDUSTRY CERTIFICATION (IC)

Industry certifications (IC) are earned through secondary and post-secondary career and technical education programs and courses. High school students are encouraged to focus their elective credits on robust, career-aligned learning pathways. Robust learning pathways should culminate with the achievement of recognized industry certifications, meaningful work-based learning experiences, and/or attainment of post-secondary credit hours through early post-secondary opportunities. As it pertains to industry certifications, all credentials are

aligned with post-secondary and employment opportunities and with the competencies and skills that students should have acquired through their chosen program of study.

STATEWIDE DUAL CREDIT (SDC)

Statewide dual credit classes are college-level courses taught at the high school level by trained high school teachers. Course learning objectives are developed by Tennessee high school and college faculty in order to ensure alignment with post- secondary standards. All students enrolled in a statewide dual credit course take the online challenge exam which is used to assess mastery of the post-secondary-level learning objectives. Students that meet or exceed the exam 'cut score' receive college credit that can be applied to any Tennessee public post-secondary institution.

WORK ETHIC DISTINCTION

The "Work Ethic Distinction" is a workforce readiness credential that can be earned by high school SENIORS in participating counties. Students who earn the Work Ethic Distinction often will be given preference for job interviews at partnering employers if they meet all other qualifications of the job posting.

Participating students will receive a list of Work Ethic Distinction Standards which includes 14 achievement categories. Each achievement category has one, two, or three subcategories that are assigned a point value. Students who sign up for the Work Ethic Diploma must complete enough of the goals set out in the achievement categories to score 32 points in order to receive the diploma.

To help school systems and students track their progress toward the Work Ethic Distinction, the WE (Work Ethic) Track database was developed. WE Track allows students to engage with the program throughout their senior year. www.workethicdiploma.com

The Work Ethic Distinction focuses on the right soft skills to make students successful. Every employer is looking for candidates who have mastered these skills. Employers are looking for that same skill set, whether for an assembly line, the military or in a profession. These skills are vital. The Work Ethic Diploma ofDistinction on a student's resume is a credential that gives them an edge over the candidate without it.

MIDDLE COLLEGE

Middle College is a program for juniors and seniors offered by Roane State Community College. Students take a full-time course load through RSCC to meet all remaining high school course requirements through dual enrollment as part of a 60-credit hour program designed to earn either an Associate of Science in General Studies or an Associate of Applied Science in Mechatronics (see more below on the Mechatronics program) at the same time the student earns a high school diploma. Grant and scholarship funding allow for a significant reduction in the college costs for the General Studies program. Interested students should speak to a counselor as early as possible and prior to completing the 10th grade to discuss necessary eligibility prior academic planning.

MC for MECHATRONICS

Middle College Mechatronics is a program for high school juniors and seniors. You may take classes in mechatronics at Roane State and earn high school credits and college credits at the same time. If you are taking the full program, you will earn an Associate of Applied Sciences

degree in mechatronics technology at the same time you graduate from high school. With this degree you will be able to enter the workforce with a well-paying job in a modern manufacturing environment.

Mechatronics Technologists work on automated manufacturing equipment, where they maintain, design, and troubleshoot the production machinery.

During the 2023-2024 school year, we offer a full scholarship for all dual-enrollment high school students who participate. This scholarship includes tuition and fees, books, supplies, personal protective equipment, tools, as well as an Arduino and a Programmable Logic Controller, which students will use in projects for their classes and get to keep after completion.

All students in grades 9-12 shall be enrolled full time for eight semesters. In order for students to be considered for situations other than full time enrollment, they must meet the following guidelines:

- Students must meet all the regular guidelines for high school graduation .
- Students must be able to meet the guidelines of admission into the requested institution without having to enroll in remedial or developmental courses.
- Students must have a 3.0 GPA.
- Students must score a minimum of 19 in each area of the ACT (English, Math, Reading, and Science).
- Students must also write a letter to the principal explaining the need for early graduation.
- Hardship or gifted cases may be appealed by the student to the superintendent with further appeal to the board.

Grade Point Average (GPA) — This calculation averages grades for credits earned for each semester. At the end of each semester, a student's GPA may change. How to calculate your GPA:

Example of GPA Calculation

A = 4 points	<u>Sophomore Grades for Semester 1</u>	
B = 3 points	CP English 10	A
C = 2 points	Geometry	B
D = 1 point	CP Biology	B
F = 0 points	Health Science	A

Calculation of GPA Example

CP English 10	4 points
Geometry	3 points
CP Biology	3 points
Health Science	<u>+4 points</u>
	14

14 points divided by 4 classes = 3.5 GPA

GRADE SCALE:

A 90-100	**D** 60-69
B 80-89	**F** 0-59
C 70-79	

Christy Mowery

MEDIA SPECIALIST
PEER TUTORING COORDINATOR

Deborah Werner

LIBRARY ASSISTANT

EXPERIENTIAL LEARNING

EXPERIENTIAL LEARNING COURSES

COURSE/TITLE		GRADE LEVEL	DURATION	# CREDITS	PREREQUISITES	TEACHER RECOMMENDATION
G05H05	HELP DESK 1	9 - 12	1 SEMESTER	1 CREDIT	DIGITAL ARTS	2 TEACHERS
C25H14A/B	PEER TUTORING A/B	11 - 12	1 SEMESTER	1 CREDIT	SEE DESCRIPTION	YES IF REPEATING
C25H15	MEDIA & RESEARCH	11 - 12	1 SEMESTER	1 CREDIT	SEE DESCRIPTION	YES IF REPEATING
G25H00	PREPARING FOR THE ACT	9-12	1 SEMESTER	1 CREDIT	NONE	NO

Student Technology & Innovation: Help Desk I (9-12)

- **Prerequisites: Satisfactory grades, Digital Arts I OR 2 teacher recommendations**

Student Innovation is our student-operated help desk class located in the Media Center. Students are trained to troubleshoot student technology issues on chromebooks, iPads, and Macbooks. Sound studio equipment, vinyl cutter, heat-press, and printing equipment are also located in the Media Center, so help desk students are encouraged to learn by tinkering so they can help other students utilize these resources. They are also called upon to help teachers as they integrate technology to personalize learning. Students are trained to submit repair tickets into our technology management

system, issue loaner devices to students, and make simple repairs on their own. Assignments and grading varies. This can be the capstone experience for Digital Arts, AV Production, and Business Management focus areas. This can also be a gateway for students to be placed in a work-based learning experience.

Peer Tutoring (11-12)

- **Prerequisites: GPA of 2.7 or higher; teacher recommendation; no in-school suspensions; AND acceptable attendance, discipline, character, and attitude**

This class is open to juniors and seniors (occasionally sophomores) who are willing to provide assistance to other students having difficulty with academic classwork. Responsibilities vary based on where you are placed for your peer tutoring experience, but could include: reading tests, working with small groups, working one-on-one, keeping students on task during lectures, helping with make-up work, and keeping a class notebook with notes, worksheets, tests, etc. Peer tutors will be placed in classes based on their areas of strength, and where they are needed most. Teachers may request a student who has shown proficiency in their class to return as a peer tutor. Tutors will have opportunities to teach lessons or lead classroom activities over the course of the semester (to be determined by the cooperating teacher) that will count for a midterm grade. Students are required to complete a Training Module in Canvas, then monthly progress grades will be posted by the cooperating teacher. All grading and attendance is maintained by the classroom teacher.

Learning Lab (10-12)

- **Prerequisites: IEP; teacher recommendation**

This course includes direct instruction in math, reading skills, and self-determination, with scheduled times for assistance with homework and testing from the general curriculum. Reading instruction will utilize an online and print-based program developed specifically to raise reading competencies and test scores of struggling high-school students. Students receive 1 elective credit.

Preparing for the ACT (9-12)

- **Prerequisites: none**

The ACT Prep Class is **designed to prepare students to take the ACT by equipping them with skills and test-taking strategies to improve their score**. The class will cover content and strategies for English, Math, Reading, Science, and the optional essay.

Dr. Chris Smallen

iLEARN COORDINATOR
CHIEF TECHNOLOGY OFFICER

The iLearn Institute at Lenoir City Schools

Credit Advancement courses are new credit opportunities that carry both half and whole credits depending on the class. All CA courses are approved by the Tennessee Department of Education, taught by certified instructors, and are aligned to Tennessee content standards.

CREDIT ADVANCEMENT GUIDELINES (NEW CREDIT OPPORTUNITY)

https://ilearn.lenoircityschools.com/

- Credit Advancement is only available if students meet the criteria established by the school board (see above). A minimum GPA of 2.5 is required for all students wishing to take a new credit opportunity. Virtual courses are provided with Lenoir City Schools' teachers serving as the teacher of record. Students interested in this option can view a complete list of available course offerings and associated costs at iLearn.LenoirCitySchools.com. Once the student satisfactorily completes the online course the credit would be awarded to the student's transcript.

- Students will be expected to log in and interact with their instructors and online classmates. They may be assigned to a computer lab during the school day and work with the lab facilitator (LF) to support their learning. Students must be willing to commit to spending six hours per week or more per course taken and completing assignments in accordance with the pacing guide and deadlines established by the online instructor. Students are permitted to work ahead in the course but falling behind the pace of the course is not permitted. Students who do not begin their courses within the first seven (7) days will be dropped from the course.

- Students interact with their online teacher on a regular basis. Course content is delivered through text, video, graphics, and other internet resources, combined with activities, projects and lessons the student may do offline. Tests are only one variety of learning assessments that are built into courses to ensure that students master course content. Some courses may include group projects as well as independent work and performances. Teachers and students may interact via email, message boards, chat rooms, instant messaging, telephone and/or regular mail. Teachers may also require students to take tests on site in a proctored situation.

ENGLISH LANGUAGE

Daniel Browning

ENGLISH INSTRUCTOR
DEPARTMENT CHAIR

Laurie Busch

ENGLISH INSTRUCTOR

Angela Crabtree

ENGLISH INSTRUCTOR

Rachel Boals

ENGLISH INSTRUCTOR

Dr. Joshua Johnston

ENGLISH INSTRUCTOR
TEACHING AS A PROFESSION/
THEATER

Kellye Renker

ENGLISH INSTRUCTOR
TEACHING AS A PROFESSION

Deann Johnson

ENGLISH INSTRUCTOR

Hanna Hammett

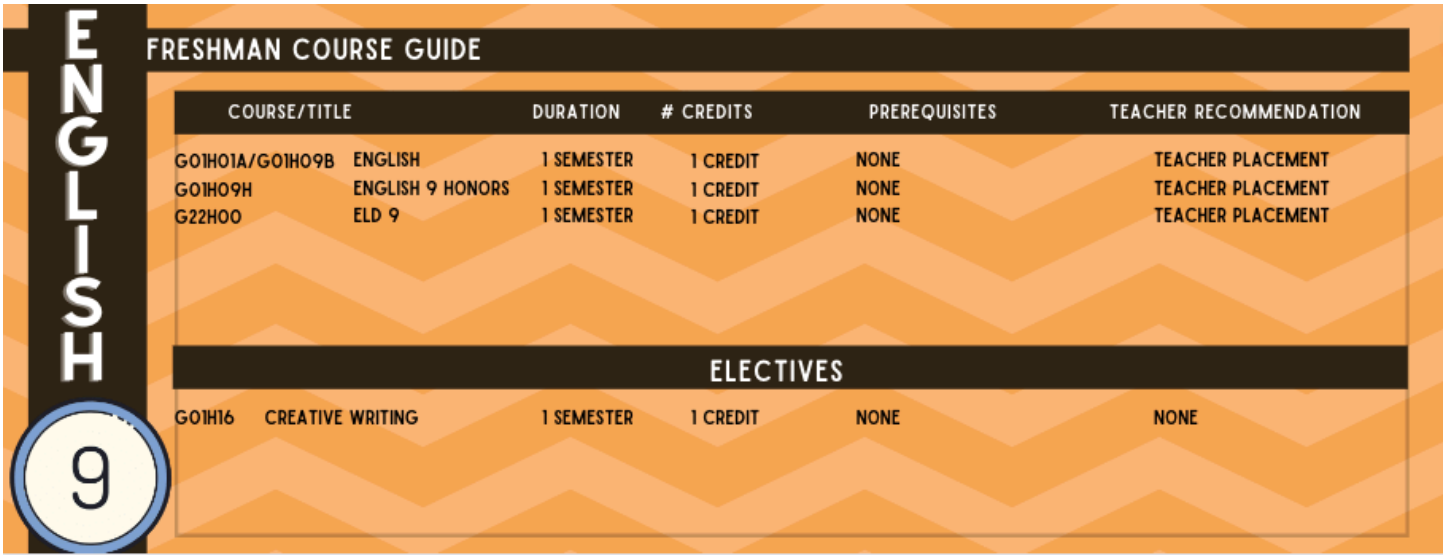
ENGLISH INSTRUCTOR

Krista Sharp

ENGLISH INSTRUCTOR

Tyler Hardin

ENGLISH INSTRUCTOR



English 9

- **Prerequisite: Teacher placement**
- **Preparation for Exam: EOC / ACT**

  This class will develop the critical reading and writing skills necessary for success in college and career. English 9 is a semester course.

Honors English 9

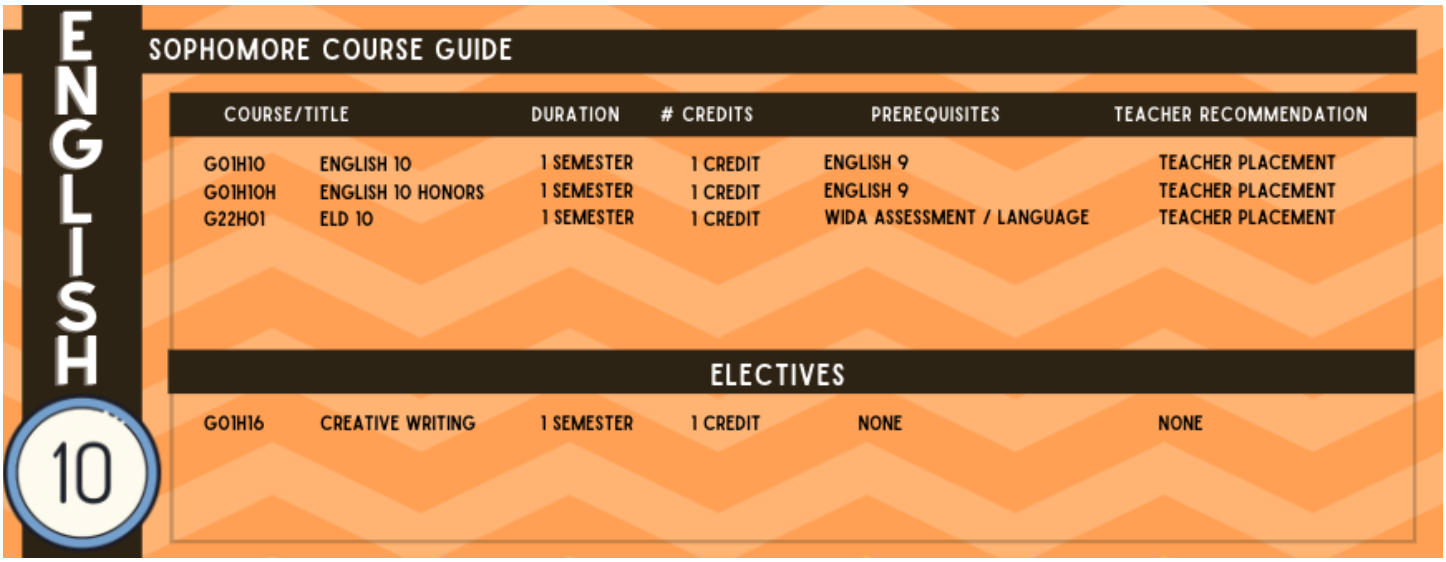
- **Prerequisites: Teacher placement**
- **Preparation for Exam: EOC / ACT**

  This class is designed for the exceptionally self-motivated student of English and reading. A research project will be required in this class. Students will do expository, narrative, persuasive. Honors English 9 is a one-semester course for one English credit.

(ELD) English Language Development 9

- **Prerequisites: WIDA Assessment/Language**

  This course is for students in grade 9 who have scored below a 3.5 on the WIDA composite. Students will be placed in a variety of ELD 9 courses depending on their English Level.



English 10

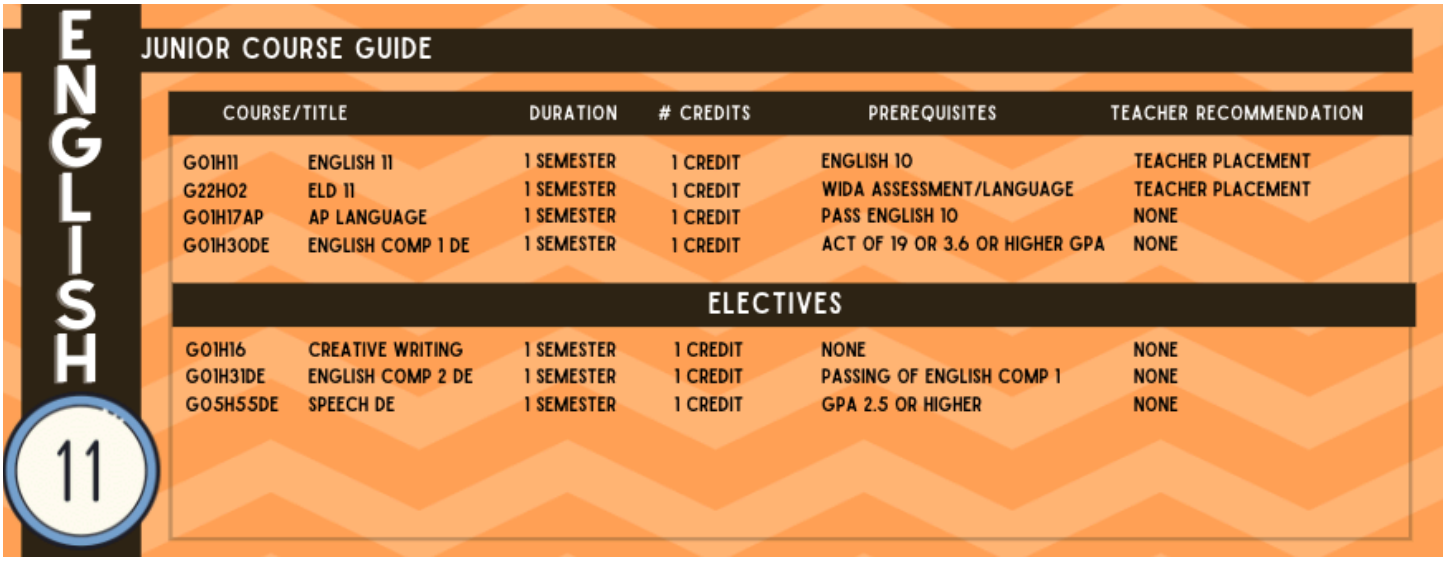
- **Prerequisites: English 9; Teacher placement**
- **Preparation for Exam: EOC / ACT**
  This class will develop critical reading and writing skills necessary for success in college.

Honors English 10

- **Prerequisites: Teacher placement**
- **Preparation for Exam: EOC / ACT**
  This class is designed for the exceptionally self-motivated student of English and reading. A research project will be required in this class. Students will do expositional, narrative, and persuasive.

(ELD) English Language Development 10

- **Prerequisites: WIDA Assessment/Language**
  This course is for students in grade 10 who have scored below a 3.5 on the WIDA composite. Students will be placed in a variety of ELD 10 courses depending on their English level.



English 11

- **Prerequisites: English 10 and Teacher placement**
- **Preparation for Exam: ACT**

  This class will develop the critical reading and writing skills necessary for success in college.

AP English Language and Composition / Advanced Placement (11)

- **Prerequisites: Discussion with Counselor**
- **Preparation for Exam: AP English Language & Composition Exam offered by the College Board in May; ACT**

  This course is intended for the academically advanced student. AP English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes.

English Composition I / Dual Enrollment (11-12)

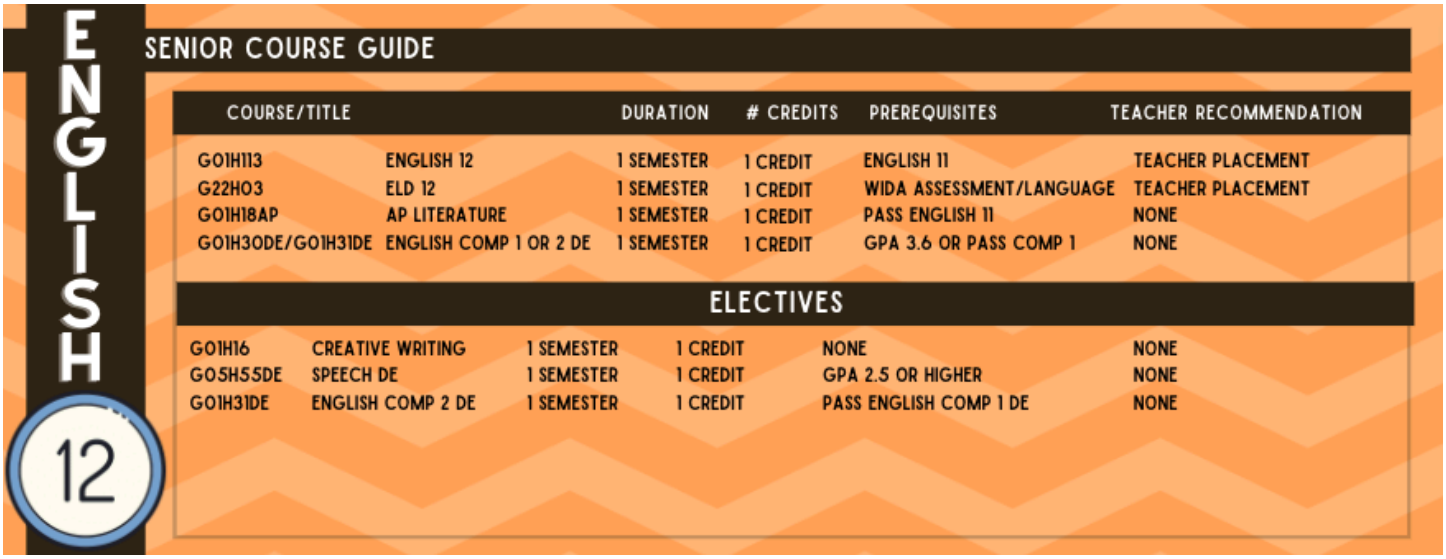
- **Prerequisites: ACT of 19 in reading and 18 in English / GPA of 3.6**
- **Course Type: Dual Enrollment through Roane State**

  This course is intended for students who are ready for a challenging, college-level English course. Composition I primarily focuses on developing proficiency in expressing oneself in writing, finding and using resources to answer questions or solve problems, and learning to analyze and critically evaluate ideas, arguments, and points of view.

(ELD) English Language Development 11

- **Prerequisites: WIDA Assessment/Language**

  This course is for students in grade 11 who have scored below a 3.5 on the WIDA composite. Students will be placed in a variety of ELD 11 courses depending on their English level.



English 12

- **Prerequisites: English 11 and Teacher placement**
- **Preparation for Exam: ACT**
  This class will develop the critical reading and writing skills necessary for success in college.

AP English Literature & Composition / Advanced Placement (12)

- **Prerequisites: Teacher placement**
- **Preparation for Exam: AP English Literature & Composition Exam offered by the College Board in May**
  This course is intended for the academically advanced student. The AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as smaller-scale elements such as the use of figurative language, imagery, symbolism, and tone.

English Composition 2 / Dual Enrollment (11-12)

- **Prerequisites: ACT of 19 in reading and 18 in English / GPA of 3.6**
- **Course Type: Dual Enrollment through Roane State**
  This course builds on writing and research skills learned in English 1010. Composition II focuses on writing based on literature and research. Students will become proficient in literary terminology, writers' techniques and themes, and interpreting and analyzing short fiction, drama, poetry, and the novel.

(ELD) English Language Development 12

- **Prerequisites: WIDA Assessment/Language**
  This course is for students in grade 12 who have scored below a 3.5 on the WIDA composite. Students will be placed in a variety of ELD 12 courses depending on their English level.

Creative Writing (9-12)

- **Prerequisite: None**
  This is an elective course that gives students the opportunity to practice their creative writing skills. Four major units are studied: memoir, poetry, short stories, and children's literature. Individual and class presentations are required. Students will edit and perfect one of their writing pieces for submission to the LCHS Literary Magazine printed in the spring.

Speech / Dual Enrollment (11-12)

- **Prerequisites: English I & II**
- **Course Type: Dual Enrollment through Roane State**
  This course is designed to introduce the student to the skills of interpersonal communication. Emphasis is placed upon the fundamental principles and techniques of public speaking, and the oral and physical aspects of delivery. Emphasis is also placed upon discussion, listening skills, thoughtful examination of diverse ideas, respect for everyone's right to a point of view and the tenets of free speech. Roane State General Education course approved and designed for transfer.

Michael Lee

ENGLISH LANGUAGE LEARNER INSTRUCTOR

Greta Smith

ENGLISH LANGUAGE LEARNER INSTRUCTOR

Heather Hawkins

ENGLISH LANGUAGE LEARNER INSTRUCTOR

(ELD) English Language Development 9: This course is for students in grade 9 who have scored below a 3.5 on the WIDA composite. Students will be placed in a variety of ELD 9 courses depending on their English Level.
English Language Development 10: This course is for students in grade 10 who have scored below a 3.5 on the WIDA composite. Students will be placed in a variety of ELD 10 courses depending on their English level.
English Language Development 11: This course is for students in grade 11 who have scored below a 3.5 on the WIDA composite. Students will be placed in a variety of ELD 11 courses depending on their English level.
English Language Development 12: This course is for students in grade 12 who have scored below a 3.5 on the WIDA composite. Students will be placed in a variety of ELD 12 courses depending on their English level.

- **All English Learners not enrolled in ELD 9, ELD 10, ELD 11, or ELD 12 will be enrolled in a 6th period class determined by their WIDA level to indicate their EL status.**
- **Students who require direct services will be placed in ELD classes by ESL teachers based on English levels but also including a variety of grade levels.**

- **Prerequisites: Native language other than English, Teacher Placement**

These four (4) classes are for students who study English as a second language. Course content focuses on mastering the skills of reading, writing, listening, and speaking the English language. Placement in one of these classes is based on a combination of home language survey and language proficiency test(s)... Students exit ELD classes by achieving a proficient score on a standardized WIDA assessment.

FINE ARTS

Jordan Cross

CHORAL INSTRUCTOR

Zachary Slimp

BAND DIRECTOR

Dr. Joshua Johnston

ENGLISH INSTRUCTOR
TEACHING AS A PROFESSION/
THEATER

Marianne Barbour

CHORAL ASSISTANT
ACCOMPANIST

Susanne Tyler

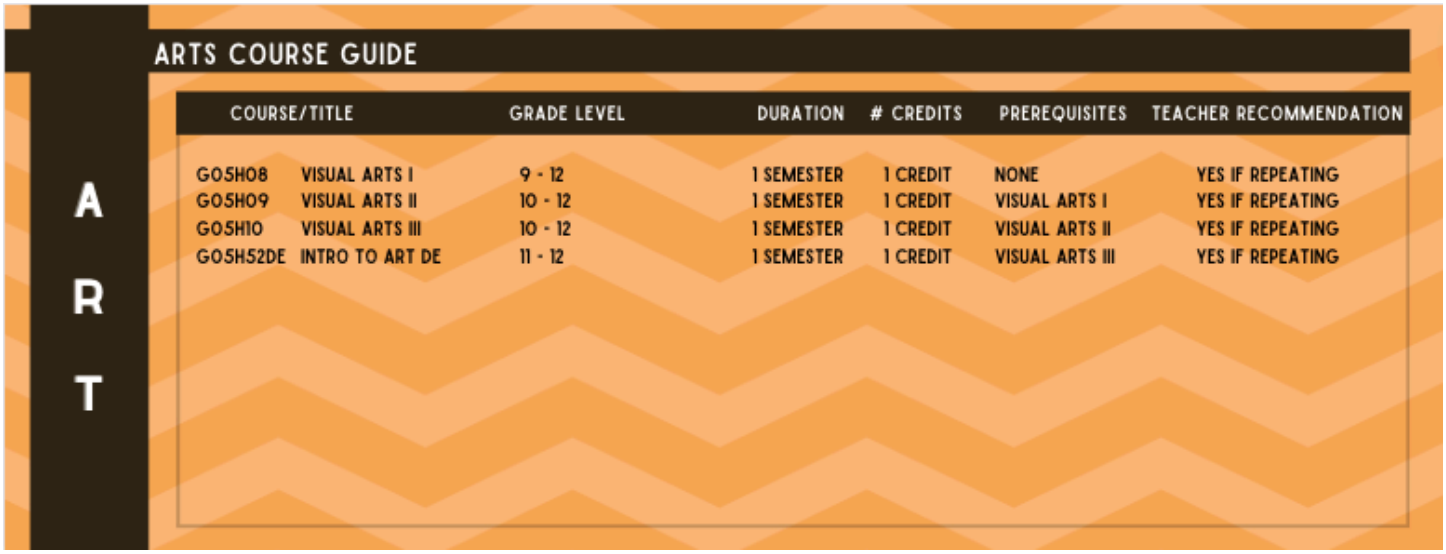
ART INSTRUCTOR

Chrystal Wallace

DIGITAL ARTS & DESIGN INSTRUCTOR
JOURNALISM
JEA ADVISOR

NOTE: Students seeking to earn multiple credits in any of the fine art courses below must obtain the teacher's recommendation before repeating the course. Any Fine Arts class meets the college entrance requirement.

VISUAL ARTS



Visual Arts I: Beginner (9-12)

- **Prerequisites: None**
- **Teacher recommendation required for retake**

  This course will guide students to express ideas through different mediums and manipulations of techniques used by master artists. The students will learn and use the Elements and Principles of Design. Students will demonstrate an understanding of how art is used to communicate ideas and how many artists have used art to produce images found in daily life.

Visual Arts II: Intermediate (10-12)

- **Prerequisites: Visual Arts I with passing grade**
- **Teacher recommendation required for retake**

  Students will learn and use the Elements and Principles of Design. Techniques and ideas from successful artists will be taught to provide students with a better understanding of art and its history.

Visual Arts III: Advanced Art (10-12)

- **Prerequisites: Visual Arts I & II with passing grade for each**
- **Teacher recommendation required for retake**

  Advanced Art will expand on the techniques and skills learned in Drawing & Painting and Sculpture & Ceramics. Students will have both small and large format learning-based projects to complete during class. Students will also be required to create, maintain, and submit a portfolio during the class. Students enrolling in this class should enjoy working with visual art, be self-motivated, and be able to complete projects independently.

Introduction to Art Dual Enrollment

- **Prerequisites: 3.6 GPA or 19 on ACT Reading**

  Form and meaning in the visual arts, lecture-discussion

THEATRE

THEATRE COURSE GUIDE

COURSE/TITLE		GRADE LEVEL	DURATION	# CREDITS	PREREQUISITES	TEACHER RECOMMENDATION
G05H16A	THEATRE I - BEGINNING	9 - 12	1 OR 2 SEMESTERS	1 CREDIT	NONE	YES IF REPEATING
G05H16B	THEATRE II - INTERMEDIATE	10 - 12	1 OR 2 SEMESTERS	1 CREDIT	THEATRE I	YES IF REPEATING
G05H16T	THEATRE TECH	9-12	1 SEMESTER	1 CREDIT	NONE	
G05H17	MUSICAL THEATRE	9-12	1 SEMESTER	1 CREDIT	NONE	

Theatre 1 & Theatre 2 (9-12)

- **Prerequisites: None / To repeat class, one must earn a B or greater**
- **Requirement: Limited amount of after-school work**
  The introductory class (Theater I) will expose students to improvisation, pantomime, monolog, and scene acting. Students will gain experience in character development and script analysis. Students will also gain hands-on experience in stagecraft while working on and/or performing a production. Upon repeating the course, advanced students (Theater II) will be engaged in in-depth studies of various kinds of drama and will refine skills in improvisation, pantomime, monolog, and scene creation. Advanced students may have the opportunity to direct.

Theatre Tech (9-12)

- **Prerequisites: None**

Technical Theater at LCHS is an opportunity for students to explore themselves in art and art in themselves. The course focuses on beginning stage craft techniques that are the foundation for technical theater. The beginning technicians will learn to interpret and execute a theatrical designer's plans, much like a beginning actor learns how to interpret and execute a playwright's script. Through projects and work on productions, students gain the confidence and technique needed to become a skilled technician.

Musical Theatre (9-12)

This course offers students the opportunity to study and perform in this genre. The course combines practical vocal training and development of students as actors and dancers. The curriculum includes production of the school musical and/or a musical revue as well as other musical theatre-related projects. Can be taken for multiple credits.

INSTRUMENTAL MUSIC

INSTRUMENTAL MUSIC COURSE GUIDE

COURSE/TITLE		GRADE LEVEL	DURATION	# CREDITS	PREREQUISITES	TEACHER RECOMMENDATION
G05X14	INSTRUMENTAL MUSIC I: MARCHING BAND	9 - 12	1 SEMESTER, FALL	1 CREDIT	YES	YES IF REPEATING
G05X14CB	INSTRUMENTAL MUSIC II: CONCERT BAND	9 - 12	1 SEMESTER, SPRING	1 CREDIT	YES	YES IF REPEATING
G05X14CB	BEGINNING INSTRUMENTAL MUSIC	9- 12	1 SEMESTER LONG	1 CREDIT	NO	NO

GENERAL MUSIC COURSE GUIDE

G05HB3	MUSIC HISTORY	11 - 12	1 SEMESTER	1 CREDIT	NO	NO

Instrumental Music I: Marching Band (9-12)

- **Prerequisites: A previous course in band, audition, or teacher recommendation / Teacher approval to add or drop course**
- **Course Sequence: Marching Band & Concert Band**

Lenoir City High School Marching Band is the most visible aspect of the band program, performing across the country each year. Stemming from a long history of success, the band is very active and competitive in maintaining their tradition of excellence. Performances include football games, pep rallies, parades, competitions, Veterans Day concert, Fine Arts Showcase, and a Christmas Concert. Auditions for Color Guard and Drumline are held each May. Audition information is on the website. Other opportunities stemming from participation in marching band include honor bands and clinics, jazz band, pep band, winter guard, indoor drumline, spring band trips, and other special events from time to time. Please refer to the band website for more information as well as a 4-year plan for band students. For the program to excel, all instrumentalists should also sign up for AIM II.

Instrumental Music II: Concert Band (9-12)

- **Prerequisites: A previous course in band, audition, or teacher recommendation / Teacher approval to add or drop course**
- **Course Sequence: Marching Band & Concert Band**

Lenoir City High School Symphonic Band is the premiere instrumental ensemble. This ensemble also has a long history of excellence, and strives to continue that tradition through each performance. Performance possibilities include local concerts, Fine Arts Showcase,

musical, Regional Festival, State Festival, and national performances. Other opportunities include band trips, honor bands and clinics, jazz bands, and other special events. Please refer to the band website for more information.

Beginning Instrumental Music: Beginning Band/ Percussion (9-12)

- **Prerequisites: None**

Beginning Band at LCHS is designed for students with little or no band experience. The course focuses on beginning techniques of music reading and percussion performance. The beginning musicians will learn to both prepare and perform concert repertoire. This class can act as a prerequisite for marching band for students with no band experience.

Music History and Production (9-12)

- **Prerequisites: None**

Music History and production is a comprehensive class designed primarily for non-musicians. This class will study multiple elements of music including the evolution of music, styles of music, compositional techniques, and the role music plays in society. The course will also cover basic songwriting and production techniques. The course is designed for non-musicians to expand their knowledge of music and to develop a deeper appreciation for music. Students who are musicians can take the class to deepen their knowledge of music.

CHORAL MUSIC

CHORAL MUSIC COURSE GUIDE

COURSE/TITLE		GRADE LEVEL	DURATION	# CREDITS	PREREQUISITES	TEACHER RECOMMENDATION
G05X12WC	VOCAL I - WOMEN'S CHORUS - BEGINNING	9 - 12	1 SEMESTER, FALL	1 CREDIT	NO	YES IF REPEATING
G05X12MC	VOCAL I - MEN'S CHORUS - BEGINNING	9 - 12	1 SEMESTER, FALL	1 CREDIT	NO	YES IF REPEATING
G05X12	VOCAL I - MIXED CHORALE	9 - 12	1 SEMESTER, SPRING	1 CREDIT	NO	YES IF REPEATING
G05X122	VOCAL II - CONCERT CHOIR - INTERMEDIATE	10 - 12	1 SEMESTER, SPRING	1 CREDIT	VOCAL I	YES IF REPEATING
G05X12CCA/B	VOCAL III - SINGERS A/B - ADVANCED	10 - 12	YEAR-LONG	2 CREDITS	AUDITION	YES / AUDITION

Vocal Music I: Women's Chorus (9-12)

- **Prerequisite: None**
- **Offered: Spring Semester Only**
- **Requirement: All Choral Performances**

This beginning, non-audition class consists of ALL WOMEN (returning students and beginning). During this course, students learn the basic elements of choral singing and an appreciation for many styles of choral music. Requirements include matching pitch, class participation, attending all performances, understanding basic music theory concepts, and the ability to give one's best effort while working with others in a group setting. On rare occasions, after school work is required to prepare for upcoming performances which will be communicated well in advance to allow students to make necessary accommodations. Students in this choir range from beginners with little to no previous choral experience, to more advanced female singers. Students from all grades are welcome. Fall semester activities include participation in all Choral Department Concerts - Fall Concert and Christmas Concert. This class has a rich tradition of Choral excellence as well as a welcoming and respectful atmosphere for all types of female singers.

Vocal Music I: Men's Chorus: (9-12)

- **Prerequisite: None**
- **Offered: Fall Semester Only**
- **Requirement: All Choral Performances**

This beginning, non-auditioned class consists of ALL MEN (returning students and beginning) and teaches students the basic elements of choral singing, as well as an appreciation for many

styles of choral music. Requirements for this class include being male, matching pitch, class participation, attending all performances, understanding basic music theory concepts, and the ability to give your best effort while working with others in a group setting. On rare occasions, after school work is required to prepare for upcoming performances. These times are communicated well in advance to allow students to make necessary accommodations. Students in this choir range from beginners with little or no previous choral experience, to more advanced male singers. Students from all grades are welcome. Fall semester activities include participation in all Choral Department Concerts - Fall Concert and Christmas Concert. Come be a part of the MAN KWAR. Experience and take ownership of a wonderful musical opportunity.

Vocal Music I: Mixed Chorale: (9-12)

- **Prerequisite: None**
- **Offered: Spring Semester Only**
- **Requirement: All Choral Performances**

This beginning, non-auditioned class consists of an SATB choral group. The students will display an intermediate knowledge of musical concepts and will perform sacred and secular choral repertoire. Requirements include matching pitch, class participation, attending all performances, understanding basic music theory concepts, and the ability to give one's best effort while working with others in a group setting.

Vocal Music II: Concert Choir (9-12)

- **Prerequisite: Vocal Music I AND Choral Director approval.**
- **Offered: Spring Semester Only**
- **Requirement: All Choral Performances**

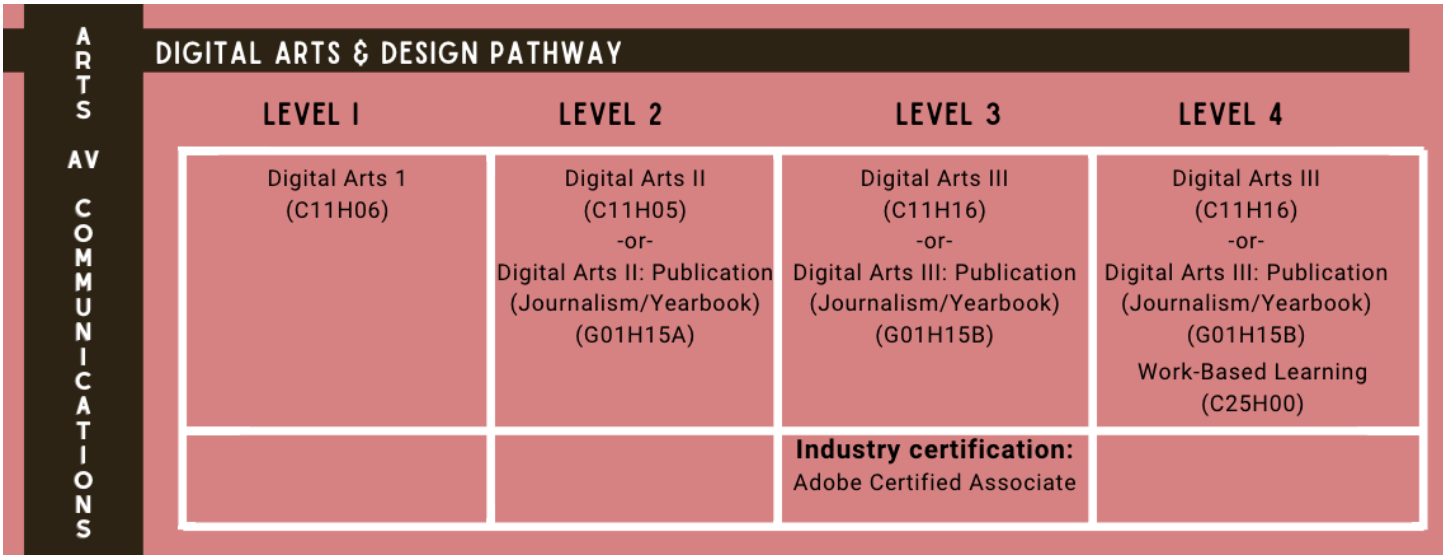
This large, intermediate choral group meets in the spring semester. Membership in this SATB ensemble is voice part specific, and course enrollment will be determined based on written approval of the Choir Director. The students will display an intermediate knowledge of musical concepts and will perform sacred and secular choral repertoire. Requirements include matching pitch, class participation, attending all performances, understanding basic music theory concepts, and the ability to give one's best effort while working with others in a group setting. On rare occasions, after school work is required to prepare for upcoming performances. These times are communicated well in advance to allow students to make necessary accommodations. Spring semester activities include participation in all Choral Department Concerts - Winter Concert and Spring Concert, J.B. Lyle Choral Festival performance, and possible ACDA State Choral Festival. This will be a great class for students wishing to further their choral experience and build on past musical knowledge.

Vocal Music III: Singers (10-12)

- **Prerequisites: Vocal Music I AND Audition**
- **Offered: Spring & Fall Semesters**
- **Requirement: All Choral Performances**

This class consists of 24 to 32 voices, requires a two semester commitment, and is by AUDITION ONLY. This Choir is a select, advanced ensemble, which performs a wide variety of both sacred and secular choral literature, including a cappella music as well as vocal jazz. Fall semester activities include participation in all Choral Department Concerts - Fall Concert and Christmas Concert, National Anthems at Football/Basketball games, LCHS Madrigal, All-East Honor Clinic (extracurricular auditioned group). Spring semester activities include all Choral Department Concerts - Winter Concert and Spring Concert, J.B. Lyle Choral Festival performance, possible ACDA State Choral Festival, All-State Honor Conference (extracurricular audition group), and LCHS Graduation, as well as any and all Community Outreach Performances. Students from this class may participate in a choral department trip,

which usually includes performances out of town. Being a member of the Chamber Choir is an honor and a privilege. Chamber Choir serves as the flagship choral ensemble for Lenoir City High School. These students work exceptionally hard to represent our school and community with utmost pride and professionalism.



Digital Arts & Design meets the fine arts requirement for high school and can also be located in the Career and Technical Education section of this document.

Digital Arts and Design I (9-10)

- **Prerequisite: None**

  This course provides a foundation in design concepts and applies these concepts to the visual art, design, printing, and photography industries. Course content is designed to foster skills and understanding that are essential in modern digital design. Focus will be on developing an understanding of key design concepts and strategies, along with design challenges that translate into creative communication solutions which accurately and effectively reach targeted audiences. Students will explore various applications of design through extensive study of typography, photography, photo enhancement with Photoshop CC editing software and photography using Canon digital cameras, composition, visual elements, color, and various problem-solving tasks. In addition, students will begin compiling artifacts for inclusion in a digital portfolio which they will carry with them throughout the full sequence of courses in this program of study. At the end of the course there is an option to take an Adobe Photoshop certification exam. **This course satisfies the state "Fine Arts" graduation credit.**

Digital Arts and Design II (10-11)

- **Prerequisite: Level 1 of the Digital Arts Pathway; Teacher recommendation**

  This course is designed to broaden the foundation of design concepts and understanding fostered in Digital Arts 1 and use those skills to create student publications such as the yearbook, video announcements, online newspaper, radio broadcasts, and video interviewing. Industry standard software is used, as well as studying the cost of design and career exploration. In addition, students will continue compiling artifacts for inclusion in a digital portfolio which they will carry with them throughout the full sequence of courses in this program of study.

Digital Arts and Design III (11-12)

- **Prerequisite: Level 1-2 of the Digital Arts Pathway; Teacher recommendation**
- **Industry Certification Opportunity: Adobe Certified Associate Industry**

  This course is designed to broaden the foundation of design concepts and understanding fostered in Digital Arts II, and use those skills to create student publications such as the

yearbook, video announcements, online newspaper, radio broadcasts, and video interviewing. Industry standard software is used, as well as studying the cost of design and career exploration. In addition, students will continue compiling artifacts for inclusion in a digital portfolio which they will carry with them throughout the full sequence of courses in this program of study.

Journalism A / B (10-12)

- **ADMISSION BY APPLICATION ONLY**
- **Click HERE to fill out the application**

  This class offers a variety of learning experiences in business, graphic arts, photography, and writing. This is a production class in which the member accepts responsibility for the creation of the yearbook, video news, and school newspaper. Students who are hard workers, possess specialized talents, and are willing to accept a challenge are encouraged to apply for admission into this class. This class requires a year-long commitment for which students may earn two (2) credits each year enrolled.

Amyee Alexander

MATH INSTRUCTOR

Cody Cox

MATH INSTRUCTOR

Ty Emmert

MATH INSTRUCTOR

Stephanie Guth

MATH INSTRUCTOR

Jeffrey Kuhl

MATH INSTRUCTOR
TRACK & CROSS COUNTRY COACH

Christina Mullinax

MATH INSTRUCTOR/
COMPUTER SCIENCE
CHESS SPONSOR

Mindy Pierce

MATH INSTRUCTOR

Suzanne Reed

MATH INSTRUCTOR

Lynlee Sims

MATH INSTRUCTOR
DEPARTMENT CHAIR

Sarah Torbett

MATH INSTRUCTOR

MATH

MATH COURSE GUIDE

COURSE/TITLE		GRADE LEVEL	DURATION	# CREDITS	PREREQUISITES	TEACHER RECOMMENDATION
G02H01/2	ALGEBRA I A/B	9	1 YEAR	1 ELECTIVE; 1 MATH	NONE	NO
G02H11	GEOMETRY	9 - 10	1 SEMESTER	1 MATH CREDIT	ALGEBRA I	NO
G02H11H	GEOMETRY H	9 - 11	1 SEMESTER	1 MATH CREDIT	ALGEBRA I	YES
G02H06/7	ALGEBRA II A/B	10 11	1 YEAR	1 ELECTIVE; 1 MATH	ALGEBRA I OR GEOMETRY	NO
G02H06/7H	HONORS ALGEBRA II A/B	10 - 11	1 YEAR	1 ELECTIVE; 1 MATH	ALGEBRA 1 OR GEOMETRY	YES
G02H47DE	PRECALCULUS DE	11 - 12	1 SEMESTER	1 MATH CREDIT	ALGEBRA II; ACT MATH-23	YES
G02H49DE	STATISTICS DE	11 - 12	1 SEMESTER	1 MATH CREDIT	ALGEBRA II; ACT MATH-19	YES
G02H18H	HONORS CALCULUS	12	1 SEMESTER	1 MATH CREDIT	PRE CALCULUS	NO
G02H24AP	CALCULUS AB AP	12	1 SEMESTER	1 MATH CREDIT	HONORS CALCULUS	NO
G02H42	MATHEMATICAL REASONING	12	1 SEMESTER	1 MATH CREDIT	ALGEBRA II	YES
G02H48DE	COLLEGE ALGEBRA DE	11 - 12	1 SEMESTER	1 MATH CREDIT	ALGEBRA II; ACT MATH-21	YES
G02H51DE	CALCULUS 1 DE	12	1 SEMESTER	1 MATH CREDIT	PRECALCULUS; ACT MATH-26	YES
G02H74SDC	PRE CALCULUS SDC	11 - 12	1 SEMESTER	1 MATH CREDIT	ALGEBRA II	NO
G02H75SDC	STATISTICS SDC	11 - 12	1 SEMESTER	1 MATH CREDIT	ALGEBRA II	NO
G02H75S	SAILS-STATISTICS	12	1 SEMESTER	1 MATH CREDIT	ALGEBRA II	YES
G02H94APW	STATISTICS AP WEB	11 - 12	1 SEM OR YEAR	1 MATH CREDIT	ALGEBRA II	NO
G02H95APW	CALCULUS BC AP WEB	12	1 SEM OR YEAR	1 MATH CREDIT	CALCULUS AB	NO

NOTE: Students must be registered in a core Math class during the Freshman, Sophomore, Junior, and Senior year. The TNReady Assessment is required in Algebra I, Geometry, and Algebra II. Research shows more rigorous math classes help produce higher student ACT/SAT scores. Also, rigorous math courses taken in high school tend to lead to a higher GPA in college.

Algebra I (9)

- **Prerequisite: None**
- **Preparation for Exam: EOC at conclusion of course**

Algebra I is the study of mathematics in which arithmetical operations and formal manipulations are applied to abstract symbols rather than specific numbers. This course is designed for freshmen who did not receive credit for Algebra I in middle school. Students with qualifying disabilities as documented in the IEP may take Algebra as a yearlong class and earn two credits.

Geometry (9-10)

- **Prerequisite: Algebra I**
- **Preparation for Exam: EOC at conclusion of course**

A focus on the understanding of properties, relationships, and geometric reasoning of multidimensional concepts is included in this course. Students receive one (1) math credit. Students with qualifying disabilities as documented in the IEP may take Geometry as a yearlong class and earn two credits.

Honors Geometry (9-11)

- **Prerequisites: Algebra I; on-track or mastery on Algebra I EOC; Teacher rec.**
- **Preparation for Exam: EOC at conclusion of course**

Honors Geometry focuses on the understanding of properties, relationships, and geometric reasoning of multidimensional concepts. Included in this course is a review of arithmetical operations and formal manipulations applied to abstract symbols rather than specific numbers. This class is only for students who received credit for Algebra I and scored *on track or mastery* on the Algebra I TNReady Assessment. Students receive one (1) math credit.

Algebra II (10-12)

- **Prerequisite: Geometry**
- **Class Expectations**
- **Preparation for Exam: EOC at conclusion of course**

This course includes an in-depth study of functions, analytical problem solving, and data analysis.

Honors Algebra II (10-11)

- **Prerequisites: A or B in Algebra I and Geometry and on-track or mastery on the Algebra I and Geometry EOCs.**
- **Preparation for Exam: EOC**

This course is designed to provide college prep students with a more in-depth Algebra II at an accelerated pace. The class meets state standards for an honors course.

Statistics / State Dual Credit (11-12)

- **Prerequisite: B or higher in Algebra II or C or higher in Honors Algebra II; Teacher recommendation**
- **Course Type: State Dual Credit**
- **Preparation for Exam: State Dual Credit Challenge Exam**

This course is designed to investigate real-world problems through data sampling and experimentation, pattern recognition, and statistical inference in order to answer relevant questions. Students receive one math credit. Those scoring high enough will receive college credit and high school credit for the course.

Introduction to Precalculus (10-12)

- **Prerequisite: Algebra 2/Honors Algebra 2 (starting Fall 2023)**

This course is designed to prepare students for SDC Precalculus. Students will be introduced to trigonometry and advanced algebra concepts that are no longer addressed in Algebra 2 but are needed to be successful in higher level math courses such as SDC Precalculus, Calculus, or College Algebra. Any student who takes Algebra 2/Honors Algebra 2 in the Fall of 2023 or after will be required to take this course before being admitted to SDC Precalculus.

Precalculus / State Dual Credit (11-12)

- **Prerequisite: Algebra I and Algebra II OR equivalent Integrated Math. Geometry recommended.**
- **Course Type: State Dual Credit**
- **Preparation for Exam: State Dual Credit Challenge Exam**

The content of this course includes the study of Trigonometry as a circular function. This course focuses on a more analytical approach to the study of functions and transcendental functions. Students are introduced to limits, vectors, and polar forms. At the end of the course, students will take the state dual credit challenge exam. Those scoring high enough will receive college credit and high school credit for the course.

Mathematical Reasoning for Decision Making (12)

- **Prerequisites: Algebra II with less than a 19 on the ACT**

This course is designed for students who have not earned a 19 on the mathematics component of the ACT by the end of the junior year. It is designed to prepare students for college level mathematics courses. Students receive 1 math credit.

SAILS Statistics (12)

- **Prerequisites: Algebra II -less than a 19 on the ACT, good attendance and discipline record, and teacher recommendation**

This course is designed for college bound students who have not earned a 19 on the mathematics component of the ACT by the beginning of their senior year. SAILS (Seamless Alignment and Integrated Learning Support) provides students the opportunity to complete college level math course requirements before entering college. Students receive one (1) math credit. Those that pass the Challenge Exam will receive college credit and high school credit for the course.

Honors Calculus (12)

- **Prerequisites: Precalculus with a grade of B or better**

This course is designed to introduce the student to the calculus topics of limits, continuity, and differentiation. This class meets state standards for an honors course. Students receive one (1) math credit.

AP Calculus AB / Advanced Placement (12)

- **Prerequisites: Honors Calculus with a grade of C or better**
- **Preparation for Exam: AP Calculus AB Exam offered by the College Board in May**

This course includes the study of limits, continuity, differentiation, integration, and the applications. Students receive one (1) math credit.

Introduction to Precalculus (10-12)

- **Prerequisite: Algebra 2/Honors Algebra 2 (starting Fall 2023)**

This course is designed to prepare students for SDC Precalculus. Students will be introduced to trigonometry and advanced algebra concepts that are no longer addressed in Algebra 2 but are needed to be successful in higher level math courses such as SDC Precalculus, Calculus, or College Algebra. Any student who takes Algebra 2/Honors Algebra 2 in the Fall of 2023 or after will be required to take this course before being admitted to SDC Precalculus.

Pre-Calculus / Dual Enrollment (11-12)

- **Prerequisites: Algebra II, Geometry, ACT Math-23**

Designed primarily for students planning to enter the calculus sequence, but who need more mathematical background. Topics include functions and graphing-algebraic, trigonometric, exponential and logarithmic, equations, the binomial theorem, and conics. A calculator with trig and log functions will be needed by the student.

Calculus 1 / Dual Enrollment (11-12)

- **Prerequisites: Pre-Calculus; ACT Math-26**

The standard course in single-variable calculus is designed for students of science, engineering, mathematics, and computer science. Topics included are rates of change, limits, continuity, differentiation of algebraic and transcendental functions, applications of the derivative, anti-differentiation, basic integration and the fundamental theorem of calculus.

Statistics / AP (Web) (11-12)

- **Prerequisites: Algebra 2**

The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use

technology, investigations, problem solving, and writing as they build conceptual understanding

Calculus BC / AP (Web) (11-12)

- **Prerequisites: Calculus AB /Advanced Placement**

AP Calculus BC focuses on students' understanding of calculus concepts and provides experience with methods and applications. Through the use of big ideas of calculus (e.g., modeling change, approximation and limits, and analysis of functions), the course becomes a cohesive whole, rather than a collection of unrelated topics. The course requires students to use definitions and theorems to build arguments and justify conclusions. The course features a multi-representational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. Exploring connections among these representations builds understanding of how calculus applies limits to develop important ideas, definitions, formulas, and theorems. A sustained emphasis on clear communication of methods, reasoning, justifications, and conclusions is essential.

College Algebra / Dual Enrollment (11-12)

A course in algebraic functions, their properties and uses-equations, inequalities, graphs, systems of linear equations, analytical geometry including ellipse and hyperbola. Applications are in the mathematics of finance as well as the laws of growth and decay in other areas.
(Prerequisites: Two years of high school algebra and one year of geometry with an ACT of 21)
General Education course required for most Bachelor's Degrees.

Statistics / Dual Enrollment (11-12)

New Course Description: A study of the descriptive and inferential branches of statistics including statistical design, graphs, measures of center, variation, and relative standing, elementary probability, discrete and normal probability distributions, confidence intervals, hypothesis testing, and linear correlation and regression. Non-calculus based. A TI-84 or comparable calculator is required. (Prerequisites: Two years of high school algebra and one year of geometry with an ACT of 19) ***General Education course required for most Bachelor's Degrees.***

Mathematics Course Sequence Options

<table>
<tr><th>Freshman</th><th>Sophomore</th><th>Junior</th><th colspan="2">Senior</th></tr>
<tr><td colspan="4"></td></tr>
<tr><td rowspan="2">Algebra 1
Honors Algebra 1</td><td rowspan="2">Geometry</td><td rowspan="2">Algebra 2</td><td colspan="2">SDC Precalculus</td></tr>
<tr><td colspan="2">SDC Statistics</td></tr>
<tr><td></td><td></td><td></td><td colspan="2">Mathematical Reasoning</td></tr>
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<tr><td></td><td>Honors Geometry</td><td>Intro to Precal
Honors Algebra 2</td><td>SDC Statistics</td><td>SDC Precalculus</td></tr>
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<tr><td rowspan="2">Honors Geometry</td><td rowspan="2">Honors Algebra 2</td><td colspan="2">Precalculus SDC</td><td>Honors Calculus</td><td>AP Calculus</td></tr>
<tr><td>Precalculus SDC</td><td>Statistics SDC</td><td colspan="2">SDC Statistics</td></tr>
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<tr><td rowspan="3">Algebra 1 A/B
(IEP)</td><td rowspan="3">Geometry A
(IEP)</td><td rowspan="3">Geometry B
(IEP)</td><td colspan="2">Mathematical Reasoning</td></tr>
<tr><td colspan="2">SAILS Statistics</td></tr>
<tr><td colspan="2">Algebra 2 A/B</td></tr>
</table>

Chris Pickell

PERSONAL FINANCE INSTRUCTOR
ASSIST. BOYS SOCCER COACH
HEAD GIRLS SOCCER COACH

PERSONAL FINANCE

PERSONAL FINANCE COURSE GUIDE

COURSE/TITLE		GRADE LEVEL	DURATION	# CREDITS	PREREQUISITES	TEACHER RECOMMENDATION
G04H36	PERSONAL FINANCE	12	1 SEMESTER	1 CREDIT	NO	NO

Personal Finance (12)

- **Prerequisite: None**
- **Graduation Requirement**

Personal Finance 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 is a nine-week course (½ semester) paired with Economics (½ semester) to complete a full semester of coursework.

Shelly Collier

PE/ GIRLS BASKETBALL COACH

Micah Sheetz

PE/ ASSIST. GIRLS BASKETBALL COACH

Aaron Simmons

PHYSICAL ED. INSTRUCTOR
HEAD BASEBALL COACH

Dominic Petrozzello

WELLNESS AND PHYSICAL EDUCATION INSTRUCTOR

Rebekah Whipple

PHYSICAL ED. INSTRUCTOR
HEAD VOLLEYBALL COACH

PHYSICAL EDUCATION

PHYSICAL EDUCATION COURSE GUIDE

COURSE/TITLE		GRADE LEVEL	DURATION	# CREDITS	PREREQUISITES	TEACHER RECOMMENDATION
G08H00	PHYSICAL EDUCATION I	9	9 WEEKS	1/2 CREDIT	NO	NO
G08H00A/B	WEIGHT TRAINING / FOOTBALL A/B	9 - 12	1 SEMESTER	1 CREDIT	NO	VARSITY FOOTBALL COACH
G08H00WT	WEIGHT TRAINING / FITNESS	9 - 12	1 SEMESTER	1 CREDIT	NO	NO
G08H00TS	TEAM SPORTS	9 - 12	1 SEMESTER	1 CREDIT	NO	NO

LIFETIME WELLNESS COURSE GUIDE

G08H02	LIFETIME WELLNESS	9	1 SEMESTER	1 CREDIT	NO	NO

DRIVER'S EDUCATION COURSE GUIDE

G08H03	DRIVER'S EDUCATION	10 - 12	1 SEMESTER	1 CREDIT	TN DRIVER'S PERMIT	NO

All activity classes require that students dress out in appropriate gym attire and participate to the best of their ability. Dressing out and participation is part of the overall grade. Failure to do so can result in failure of the class.

Physical Education I (9/10)

- **Prerequisite: None**

  This course is designed for the student interested in learning and participating in a variety of team sports. Activities will include, but are not limited to basketball, flag football, volleyball, soccer, and softball. Students will learn the rules and skills involved in each of these activities. This is a nine-week course (½ semester) and is paired with Freshman Seminar for 9th graders US Government (½ semester) for 10th graders to complete a full semester.

Team Sports (9-12)

- **Prerequisite: None**

  This course is designed for the student interested in learning and participating in a variety of team sports. Students will learn the rules and skills involved in activities which include, but are not limited to basketball, flag football, volleyball, soccer, and softball.

Weight Training / Fitness (9-12)

- **Prerequisite: None**

  This course is designed for the student who is serious about toning the body and adding muscle mass through a vigorous weight training regimen and aerobic activities. The class places emphasis on safety and proper technique for long term success. Students will participate daily in an intense exercise program of aerobic and strength training.

Weight Training / Football (9-12)

- **Prerequisite: Recommendation from football coach.**
- **Availability: Freshman / Spring only**

  This course is designed for those students that are committed to playing football. This class includes learning, understanding, skill performance, and learning the rules of football. This course is only available to freshmen.

Women's Weight Training (9-12)

- **Prerequisite: None**
- **Availability: Freshman / Spring only**

In this course student athletes will focus on muscular strength, endurance, flexibility, and safety. This course will also focus on agility and mental components to training and competing in sports. This course will cover weight room safety, warm-up/cool down procedures, lifting technique and safety for all lifts, major muscle identification, nutrition, recovery after training, and learning to create a personalized weight training program.

Lifetime Wellness (9)

- **Prerequisite: None; Freshman class**
- **Graduation Requirement**

  Emphasis is on making informed choices about health issues including fitness, nutrition, human sexuality, substance use, disease prevention, and first aid.

Richie Wilhite

PHYSICAL EDUCATION
ASSIST. FOOTBALL COACH
DRIVER'S EDUCATION

Driver's Education (10-12)

- **Prerequisite: Valid TN Driver's Permit for at least 4 months OR 35 hours behind the wheel practice OR a Valid TN License**
- **Monetary Fee: $25**
- **Certification: Driver Course Certificate**
  The Driver Education course offers practical instruction for driving a motor vehicle according to the rules of the road as dictated by the laws of Tennessee and the laws of nature.

Katelyn Hanley

SCIENCE INSTRUCTOR

Keith Garrett

SCIENCE INSTRUCTOR

Kristen Bickerstaff

SCIENCE INSTRUCTOR
DEPARTMENT CHAIR

Carlie Spears

SCIENCE INSTRUCTOR

Andy Kerr

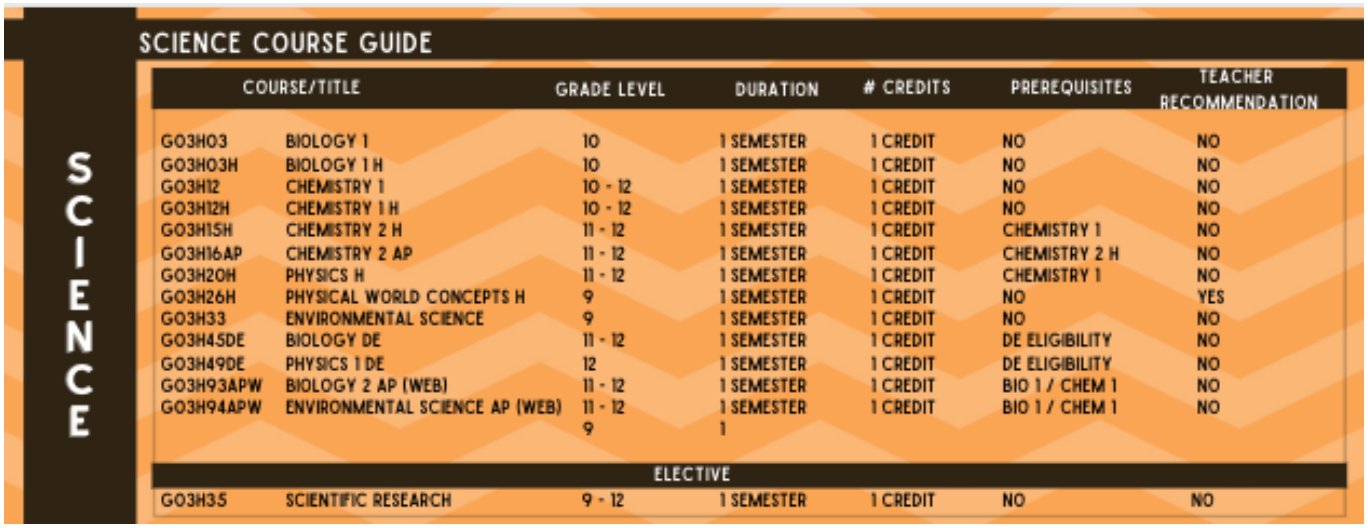
SCIENCE INSTRUCTOR

William Stanley

SCIENCE INSTRUCTOR
ASSISTANT FOOTBALL COACH

Jennifer Kuth

SCIENCE INSTRUCTOR
HEALTH SCIENCE INSTRUCTOR
DIAGNOSTIC MEDICINE
HOSA ADVISOR



SCIENCE

SCIENCE COURSE GUIDE

COURSE/TITLE		GRADE LEVEL	DURATION	# CREDITS	PREREQUISITES	TEACHER RECOMMENDATION
GO3H03	BIOLOGY 1	10	1 SEMESTER	1 CREDIT	NO	NO
GO3H03H	BIOLOGY 1 H	10	1 SEMESTER	1 CREDIT	NO	NO
GO3H12	CHEMISTRY 1	10 - 12	1 SEMESTER	1 CREDIT	NO	NO
GO3H12H	CHEMISTRY 1 H	10 - 12	1 SEMESTER	1 CREDIT	NO	NO
GO3H15H	CHEMISTRY 2 H	11 - 12	1 SEMESTER	1 CREDIT	CHEMISTRY 1	NO
GO3H16AP	CHEMISTRY 2 AP	11 - 12	1 SEMESTER	1 CREDIT	CHEMISTRY 2 H	NO
GO3H20H	PHYSICS H	11 - 12	1 SEMESTER	1 CREDIT	CHEMISTRY 1	NO
GO3H26H	PHYSICAL WORLD CONCEPTS H	9	1 SEMESTER	1 CREDIT	NO	YES
GO3H33	ENVIRONMENTAL SCIENCE	9	1 SEMESTER	1 CREDIT	NO	NO
GO3H45DE	BIOLOGY DE	11 - 12	1 SEMESTER	1 CREDIT	DE ELIGIBILITY	NO
GO3H49DE	PHYSICS 1 DE	12	1 SEMESTER	1 CREDIT	DE ELIGIBILITY	NO
GO3H93APW	BIOLOGY 2 AP (WEB)	11 - 12	1 SEMESTER	1 CREDIT	BIO 1 / CHEM 1	NO
GO3H94APW	ENVIRONMENTAL SCIENCE AP (WEB)	11 - 12	1 SEMESTER	1 CREDIT	BIO 1 / CHEM 1	NO
		9	1			
ELECTIVE						
GO3H35	SCIENTIFIC RESEARCH	9 - 12	1 SEMESTER	1 CREDIT	NO	NO

The science curriculum is designed to meet the needs of all students. Research has shown the more rigorous a science class, the higher the ACT/SAT score(s) tends to lend toward a higher GPA in college.

Biology I (10)

- **Preparation for Exam: TN Ready Assessment**

  The goal of Biology I is to develop an understanding of basic life processes. The Tennessee State Standards require students to understand concepts that encompass several key unit themes including Inquiry, Technology, Engineering, and Math; Cells; Heredity; Interdependence; Biodiversity and Change; and Flow of Energy and Matter. Students explore Biology through an inquiry-based approach. Students with qualifying disabilities as documented in the IEP may take Biology as a yearlong class and earn two credits.

Honors Biology I (10)

- **Prerequisite: Grade of an A in Agriscience, Environmental Science, Physical Science, or a B< in Honors Physical World Concepts**
- **Preparation for Exam: TN Ready Assessment**
- **Expectations: Complete class projects. Accelerated pace**

  The goal of Honors Biology I is to develop an understanding of basic life processes. The Tennessee State Standards require students to understand concepts that encompass several key unit themes including Inquiry, Technology, Engineering, and Math; Cells; Heredity; Interdependence; Biodiversity and Change; and Flow of Energy and Matter. Students explore Biology through an inquiry-based approach. Honors students have a semester-long project to complete before the end of the term and will be assigned one of the following:
  - ❖ reading one nonfiction, science-related novel paired with a research report on a current event linked to the book's topic
  - ❖ an inquiry based, student led, science research experiment with a trifold science board.

Chemistry I (10-12)

- **Prerequisites: Algebra I**

  The goal of Chemistry is to develop an understanding of the properties of matter and the interaction of matter and energy. Course content includes the properties and structures of matter in its various states, chemical calculations and quantitative relationships, chemical bonding, chemical reactions, energy, solutions, gas laws, acids and bases and laboratory techniques and safety procedures. The ability to make mathematical computations using fractions, decimals, ratios, proportions, and exponents is required.

Honors Chemistry I (10-12)

- **Prerequisites: An A or B in Algebra I; an B> in Honors Physical World Concept**

  The goal of Honors Chemistry I is to develop an understanding of the relevance of chemistry as it relates to standards of living, career choices, and current issues in science and technology. Course content includes the properties and structures of matter in its various states, chemical calculations and quantitative relationships, chemical bonding, chemical reactions, energy, solutions, gas laws, acids and bases and laboratory techniques and safety procedures. The ability to make mathematical computations using fractions, decimals, ratios, proportions, and exponents is required. This course is designed to meet the needs of the student who prefers academic challenges. All students will complete a project as part of the curriculum.

Honors Chemistry II (11-12)

- **Prerequisites: C or above in Honors Chemistry I**
- **Offered: Fall only**

  Honors Chemistry II represents the first half of the AP Chemistry curriculum as outlined by College Board (www.collegeboard.com). It is designed to investigate in greater depth the interactions of matter and energy. Topics include solution stoichiometry, gasses, thermodynamics, atomic structure and bonding, intermolecular forces, and equilibrium.

AP Chemistry / Advanced Placement (11-12)

- **Prerequisites: C or above in Honors Chemistry II**
- **Offered: Spring only**
- **Preparation for Exam: Advanced Placement Chemistry Exam offered by the College Board in May.**

  AP Chemistry represents the second half of the AP Chemistry curriculum as outlined by College Board (www.collegeboard.com). Topics include equilibrium, acid/base chemistry, kinetics, electrochemistry, thermodynamics, and descriptive chemistry. Summer assignments are required for AP courses.

Honors Physics (11-12)

- **Prerequisites: C or higher in Honors Chemistry I and Precalculus or B or higher in Honors Algebra II**

  The goal of Honors Physics is to develop an understanding of the relationships between matter and energy, with an emphasis on the fundamental laws governing the universe. Physics is recommended for juniors and seniors who are considering careers in the health sciences, veterinary medicine, engineering, architecture, or computer science.

Honors Physical World Concepts (9)

- **Prerequisite: None**
- **Expectations: Completion of a project focused on developing and conducting a lab activity working at an accelerated level.**

  Honors Physical World Concepts is an introductory science course for highly motivated 9th grade students. This course is aimed at gaining an understanding of the role of matter and energy in the world around us using hands-on experiments and graphical analysis.

Environmental Science (9)

- **Prerequisite: None**

  Environmental Science is a lab science course that enables students to develop an understanding of natural and man-made environments and environmental problems the world faces. Students explore environmental science concepts through an inquiry-based approach. Embedded standards for Inquiry and Technology & Engineering are taught in the context of the content standards for Earth Systems, The Living World, Human Population, Water and

Land Resources, Energy Resources and Consumption, Pollution and Waste Production, Global Change, and Civic Responsibility.

Biology / Dual Enrollment (11-12)

- **Prerequisite: GPA of 3.0; ACT reading of 19 or GPA of 3.6**

Introduction to the study of Biology, Biological Chemistry, Cell Structure and Function, Cell Reproduction, Genetics and Inheritance. Each student is assessed a lab fee for this course. (3 hours lecture, 2 hours laboratory)
Roane State General Education course approved and designed for transfer.

Physics 1 / Dual Enrollment (12)

- **Prerequisite: GPA of 3.0; ACT reading of 19 or GPA of 3.6; Mechatronics Focus**

An introductory study of physics involving study of measurement, forces, motion, energy and power, heat, gas laws, hydraulics, and electromagnetism, 3 hours lecture/2 hours lab per week. Course availability determined by the dean.
Course designed for transfer and part of the TN Transfer Pathway. Roane State General Education Course approved and designed for transfer (TTP Course).

AP Biology (web) / Advanced Placement (11-12)

- **Prerequisite: See Counselor if interested in this class**

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.

Environmental Science (web) / Advanced Placement (11-12)

- **Prerequisite: See Counselor if interested in this class**

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.

Scientific Research (Elective) (9-12)

- **Offered: Fall Semester**

The main purpose of the Scientific Research course is to introduce students to quantitative and qualitative methods for conducting meaningful inquiry and research. Each student will apply their research toward preparing for events in the National Science Olympiad organization's regional and state competitions. Participating in these events will help students' chances for college acceptance and scholarships. The student will gain an overview of research methodology and technique, format and presentation, and data management and apply this research in the design, building, and testing of projects of the students' choice. The course will develop each student's ability to use this knowledge to become more effective at conducting, communicating, and using original and applied research.

Science Sample Course Sequence

Freshman	Sophomore		Junior	Senior
Agriscience **or** Environmental Science Elective: Physical Science	Biology 1		Chemistry 1	***Elective options**** Hon Anatomy & Physiology, Hon Chemistry II, AP Chemistry, Hon Physics **or** DE Biology
Hon Physical World Concepts	Hon Biology 1 AND Hon Chemistry I		***Elective options**** Hon Anatomy & Physiology, Hon Chemistry II, DE Biology, or Hon Physics	***Elective options**** Hon Anatomy & Physiology, Hon Chemistry II, DE Biology, or Hon Physics
Agriscience, Environmental Science, **or** Physical Science	Biology A (IEP)	Biology B (IEP)	**	**

- **Students are invited and encouraged to take other science courses as electives (necessary prerequisites still apply.**
- **Biology II, Honors Anatomy & Physiology, Chemistry II, and Honors Physical World Concepts contain a Chemistry prerequisite.**

SOCIAL STUDIES

Zachary Payne

SOCIAL STUDIES INSTRUCTOR
ASSISTANT FOOTBALL COACH

Matthew Coe

SOCIAL STUDIES INSTRUCTOR
ASSISTANT BASKETBALL COACH

Jesse Harris

SOCIAL STUDIES INSTRUCTOR

Dr. Gary Taft

SOCIAL STUDIES INSTRUCTOR

Mike Zeller

SOCIAL STUDIES INSTRUCTOR
ASSISTANT FOOTBALL COACH

Matthew Baldwin

A/V INSTRUCTOR
SOCIAL STUDIES INSTRUCTOR

SOCIAL STUDIES

SOCIAL STUDIES COURSE GUIDE

COURSE/TITLE		GRADE LEVEL	DURATION	# CREDITS	PREREQUISITES	TEACHER RECOMMENDATION
G04H01	TENNESSEE HISTORY	9 - 12	1 SEMESTER	1 CREDIT	NO	NO
G04H10	WORLD HISTORY & GEOGRAPHY	9	1 SEMESTER	1 CREDIT	NO	NO
G04H12	US GOVERNMENT & CIVICS	10 - 12	1 SEMESTER	1 CREDIT	NO	NO
G04H13	ECONOMICS	12	1/2 SEMESTER	1/2 CREDIT	NO	NO
G04H42DE	SOCIOLOGY DE	11 - 12	1 SEMESTER	1 CREDIT	DE ELIGIBILITY	NO
G04H44DE	PSYCHOLOGY DE	11 - 12	1 SEMESTER	1 CREDIT	DE ELIGIBILITY	NO
G04H48DE	US HISTORY DE	11 - 12	1 SEMESTER	1 CREDIT	DE ELIGIBILITY	NO
G04H73SDC	SOCIOLOGY SDC	10 - 12	1 SEMESTER	1 CREDIT	NO	NO
G04HB3SDC	US HISTORY SDC	10 - 12	1 SEMESTER	1 CREDIT	NO	NO
G04HB5SDC	PSYCHOLOGY SDC	10 - 12	1 SEMESTER	1 CREDIT	NO	NO
G04HB6APW	HUMAN GEOGRAPHY AP (WEB)	9 - 12	1 SEMESTER	1 CREDIT	NO	NO
G04HC1APW	MACROECONOMICS AP (WEB)	11 - 12	1 SEMESTER	1 CREDIT	NO	NO
G04HC2APW	MICROECONOMICS AP (WEB)	11 - 12	1 SEMESTER	1 CREDIT	NO	NO
G04HC3APW	PSYCHOLOGY AP (WEB)	9 - 12	1 SEMESTER	1 CREDIT	NO	NO
G04HC4APW	US GOVERNMENT AP (WEB)	11 - 12	1 SEMESTER	1 CREDIT	NO	NO
G04H21AP	US HISTORY AP	11 - 12	1 SEMESTER	1 CREDIT	NO	NO

All students are required to earn 3 social studies credits (U.S. History & Geography, U.S. Government & Civics (1/2), Economics (1/2), and World History & Geography). Students will take US History SDC in 11th grade. Students are required to take the Challenge Exam for this course to earn an EPSO towards Ready Grad status.

Tennessee History (10)

- **Prerequisite: None**

  Students will examine the history of Tennessee, including the cultural, geographic, economic, and political influences upon that history. Students will discuss Tennessee's indigenous peoples as well as the arrival of EuroAmerican settlers. Students will analyze and describe the foundation of the state of Tennessee. Students will identify and explain the origins, impact, and aftermath of the Civil War. Students will discuss the rise of a manufacturing economy. Finally, students will examine and discuss the Civil Rights Movement and Tennessee's modern economy and society.

World History and Geography (9)

- **Prerequisite: None**

  This course is designed to enhance students' understanding of the Industrial Revolution (1700s) through the Contemporary World through historical analysis, problem solving, understanding cause and effect, and geographic analysis and understanding.

U.S. Government and Civics (10)

- **Prerequisite: World History and Geography**

  This course is the study of the structure, purpose, and operations of federal, state, and local governments. This course teaches students the rights and responsibilities of individual citizenship. This is a 9-week course (½ semester) paired with Physical Education (½ semester) to complete a full semester of coursework.

Economics (12)

- **Prerequisite: US History & Geography**

  This course addresses how individuals and nations make choices for using available but scarce resources to satisfy their unlimited wants and needs. This is a 9-week course (½ semester) and is paired with Personal Finance (½ semester) to complete a full semester of coursework.

Sociology / Dual Enrollment (11-12)

- **Prerequisite: GPA of 3.0; ACT Reading of 19 or 3.6 GPA**

This course focuses on the analysis of human social interaction, patterned social relationships, and social change. Emphasis is placed on the theoretical perspectives and principles of explanation used by sociologists, as well as the basic concepts such as culture, socialization, social organization, social deviance, and social stratification. F, Sp, Su
Roane State General Education course approved and designed for transfer. (TTP course)

Psychology / Dual Enrollment (11-12)

- **Prerequisite: GPA of 3.0; ACT Reading of 19 or 3.6 GPA**

A survey course dealing with the scientific analysis of human behavior and mental processes. Roane State General Education course approved and designed for transfer. (TTP course)

US History / Dual Enrollment (11-12)

- **Prerequisite: GPA of 3.0; ACT Reading of 19 or 3.6 GPA**

An exploration and analysis of major themes and events in the political, cultural, social, economic and intellectual history of the United States since 1877. Roane State General Education course approved and designed for transfer. (TTP Course)

Sociology / State Dual Credit (11-12)

- **Prerequisite: None**
- **Preparation for Exam: SDC Challenge Exam**

Sociology is the scientific study of people living together in groups and society along the importance of the individual within these groups. Sociology is a companion to Psychology and we discuss several of the same topics. In High School Sociology, students study dynamics and models of individual and group relationships. The six social studies standards of essential content knowledge and four process skills are integrated for instructional purposes. Customs, norms, deviance and practices of cross cultures are emphasized. Relevant group projects, relationships, and participation are fostered in this course. We will be analyzing and reviewing case studies, experiments, and processing data for the scientific benefit of the course. *In order to receive college credit, students must receive the minimum score.*

U.S. History / State Dual Credit (11-12)

- **Prerequisite: None**
- **Preparation for Exam: English I & II**

This course is designed for students that desire to satisfy the high school requirement for U.S. History and also receive college credit. Students will be exposed to a broad curriculum that ranges from Reconstruction (1865) through the present day. Students will work to refine the following skills - historical interpretation, primary source analysis, synthesis, argumentation, and evaluation. The workload for this course is designed to mimic that of an entry level college course, so students can expect to work on assignments independently with reading and writing on a daily basis.

Psychology / State Dual Credit (11-12)

- **Prerequisite: English I & II**
- **Preparation for Exam: SDC Challenge Exam**

The Psychology State Dual Credit course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. A goal of this course is to provide students with a learning experience equivalent to that obtained in most college introductory psychology courses in addition to preparing students for the Challenge Exam. *In order to receive college credit, students must receive the minimum score.*

AP U.S. History / Advanced Placement (11)

- **Prerequisite: B or higher in World History and Geography 9**
- **Preparation for Exam: Advanced Placement U.S. History Exam offered by the College Board in May**
- **Offered: Spring**
- **Requirement: Assignments over winter break**

The AP program in United States History is a one-semester course designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses which mimics the demands of a full-year introductory college course.

AP Human Geography (web) / Advanced Placement (11-12)

- **Prerequisite: None**
- **Preparation for Exam: AP Exam**

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. The curriculum reflects the goals of the National Geography Standards (2012).

AP Macroeconomics (web) / Advanced Placement (11-12)

- **Prerequisite: None**
- **Preparation for Exam: AP Exam**

AP Macroeconomics is a college-level course that introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

AP Microeconomics (web) / Advanced Placement (11-12)

- **Prerequisite: None**
- **Preparation for Exam: AP Exam**

AP Microeconomics is a college-level course that introduces students to the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students' familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

AP Psychology / Advanced Placement (11-12)

- **Prerequisite: Teacher Recommendation**

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human 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 are strongly encouraged to take the AP Exam in Psychology at the end of the course.

AP US Government (web) / Advanced Placement (11-12)

- **Prerequisite: None**
- **Preparation for Exam: AP Exam**

  AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project.

WORLD LANGUAGE

Anna Ambrose

WORLD LANGUAGE INSTRUCTOR
SPANISH

Santiago Correa

WORLD LANGUAGE INSTRUCTOR
SPANISH
BOYS SOCCER HEAD COACH

Maria Rios

WORLD LANGUAGE INSTRUCTOR
SPANISH

Redjina Cunningham

WORLD LANGUAGE INSTRUCTOR
FRENCH

World language is a graduation requirement. To meet this requirement, students must earn 2 credits in the same world language. These requirements may be waived for students who are sure they will not attend a university. If a student opts out of world language, these courses will be replaced with ones designed to enhance and expand the elective focus. It is anticipated that this credit will be completed by the end of a student's junior year. Seniors may enroll if requirement has not been met or may see the grade level counselor for the opt out form.

Spanish 1 (9-12)

- **Prerequisites: None**
  Students will acquire a command of basic vocabulary and language structures through listening, speaking, reading and writing activities in the present tense and an overview of Hispanic culture. Students will be expected to memorize vocabulary and master verb conjugation. Mastery of English grammar is strongly recommended before learning a foreign language.

Spanish 2 (10-12)

- **Prerequisite: Spanish I**
  Students will integrate reading, writing, listening, and speaking abilities as they build upon skills mastered in Spanish I. Students will learn to express their opinions, provide an accurate description of a place or a person, talk about things from the past and tell what is going to happen in the future. There will be an overview of Hispanic history that will enable students to better understand the language and culture. *If students earn less than an 85 average in Spanish I, tutoring may be required for Spanish II.*

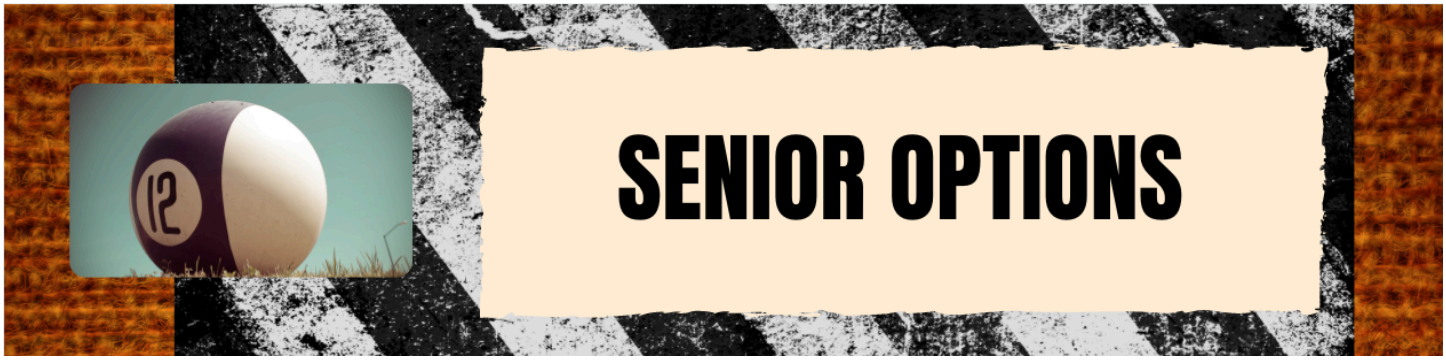
French 1 (9-12)

- **Prerequisite: None**
  Students will acquire a command of basic vocabulary and language structures through listening, speaking, reading and writing activities in the present tense and an overview of French culture. Students will be expected to memorize vocabulary and master verb conjugation. Mastery of English grammar is strongly recommended before learning a foreign language.

French 2 (9-12)

- **Prerequisite: French 1**

  Students will integrate reading, writing, listening, and speaking abilities as they build upon skills mastered in French I. Students will learn to express their opinions, provide an accurate description of a place or a person, talk about things from the past and tell what is going to happen in the future. There will be an overview of French history that will enable students to better understand the language and culture. *If students earn less than an 85 average in French I, tutoring may be required for French II.*



Brandee Hoglund

PRINCIPAL

12TH

OFF CAMPUS

12TH GRADE OFF CAMPUS RELEASE OPTIONS COURSE GUIDE

COURSE/TITLE		GRADE LEVEL	DURATION	# CREDITS	PREREQUISITES	TEACHER RECOMMENDATION
G25H10T	EARLY RELEASE: SEMESTER 1	12	1 SEMESTER	0 CREDIT	NO	MUST HAVE REQUIRED CREDITS
G25H10T2	EARLY RELEASE: SEMESTER 2	12	1 SEMESTER	0 CREDIT	NO	MUST HAVE REQUIRED CREDITS
G25H10LAF	LATE ARRIVAL: SEMESTER 1	12	1 SEMESTER	0 CREDIT	NO	MUST HAVE REQUIRED CREDITS
G25H10LAS	LATE ARRIVAL: SEMESTER 2	12	1 SEMESTER	0 CREDIT	NO	MUST HAVE REQUIRED CREDITS

NOTE: All students should be enrolled in four (4) courses per semester to be considered a full-time student (8 total for the year). Seniors may request one "release" per semester if all graduation requirements are being met (i.e. late arrival OR early release).

99305 Early Release (1st semester)
99405 Early Release (2nd semester)

- **Prerequisites: Since no credit is awarded for this option, students must have the credits required to graduate.**
  This option is only available to senior students.

99505 Late Arrival (1st semester)
99605 Late Arrival (2nd semester)

- **Prerequisites: Since no credit is awarded for this option, students must have the credits required to graduate.**
  This option is only available to senior students.

Mark Weeks

CTE DIRECTOR

Kiyah Clarke

CTE ADMINISTRATIVE ASSISTANT

Tim Librizzi

COUNSELOR
CAREER & TECHNICAL EDUCATION

CTE CLASSES

MUST BE TAKEN IN SEQUENTIAL ORDER

Jessica Rose

AGRICULTURE INSTRUCTOR
VET SCIENCE
FFA ADVISOR / STUDENT COUNCIL
GIRLS ASSIST. SOCCER COACH

Josey Miller

AGRICULTURE INSTRUCTOR/ AG MECHANICS
FFA ADVISOR

Tim Youngberg

WELDING INSTRUCTOR

AGRICULTURE

VETERINARY & ANIMAL SCIENCE PATHWAY

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Agriscience (C18H19)	Small Animal Science Technologies (C18H20)	Large Animal Science Technologies (C18H27) or **Dual Enrollment** Animal Science DE (C18H01DE)	Veterinary Science Technologies (C18H21) **-OR-** **Work Based Learning** (C25H16)
Industry certification: OSHA - 10		**Industry certification:** Veterinary Medical Applications Cert. Elanco/IVEC	

Agriscience (9-10)

- **Prerequisite: None**
- **Industry Certification Opportunity: OSHA 10**
- **Note: This course does NOT fulfill a science credit requirement with the NCAA Clearinghouse.**

Agriscience is an introductory laboratory science course that prepares students for biology and subsequent science courses, all agriculture courses, and post-secondary study. This course helps students understand the important role that agricultural science and technology serves in the 21st century. This course may be taken for a lab science credit and/or a CTE focus area credit. This course serves as the first course for all programs of study in the Agriculture, Food, and Natural Resources pathway.

Small Animal Science Technologies (10-11)

- **Prerequisite: Level 1 of Veterinary & Animal Science Pathway**

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

Large Animal Science Technologies (10-12)

- **Prerequisite: Levels 1, 2 of Veterinary & Animal Science Pathway**

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.

Veterinary Science Technologies (11-12)

- **Prerequisite: Levels 1, 2, 3 of Veterinary & Animal Science Pathway**

  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. This course covers principles of health and disease, basic animal care and nursing, clinical and laboratory procedures, and additional industry-related career and leadership knowledge and skills. *This course may be taken for a lab science credit and/or for a CTE focus area credit. Students have the opportunity to attain Dual Enrollment Credit during this course. Upon successful completion of Vet Science and approval from CTE Director, students may participate in a Vet Science internship capstone experience.*

Animal Science: Dual Enrollment (11-12)

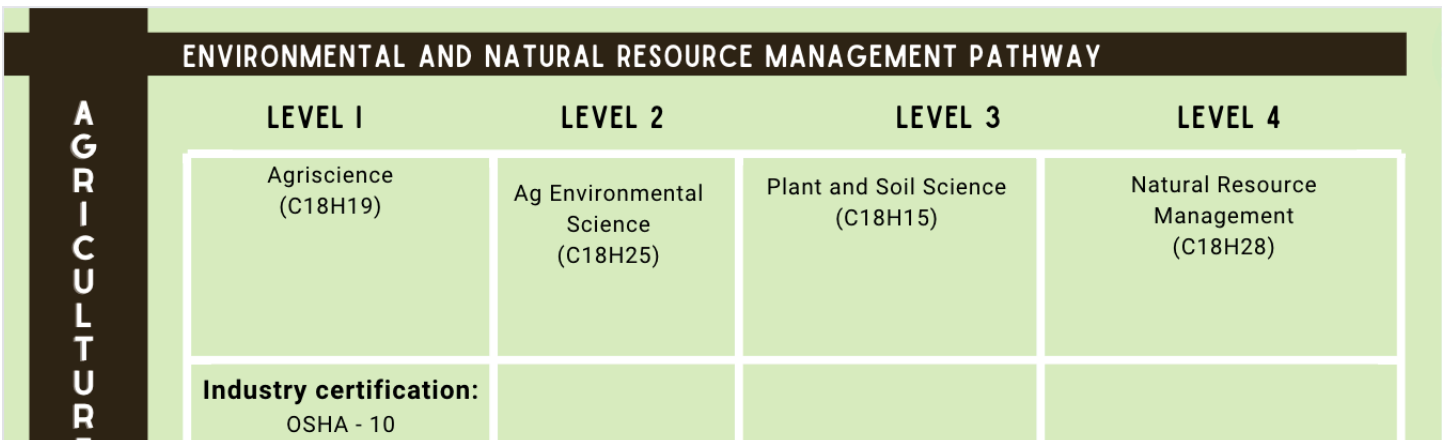
- **Prerequisite: Levels 1, 2, 3 of Veterinary & Animal Science Pathway**
- **Course Type: Online; Independent Study via UT Martin for 3 credit hours transferable to most major colleges**

  Veterinary and Animal Science is an online dual-enrollment course that covers fundamental principles of animal agriculture, including biological and scientific aspects of development, inheritance, feeding, animal products, and scope of the animal industry.

Work-Based Learning (11-12)

- **Prerequisite: At least 2 course in one of the CTE pathways**
- **Enrollment: Students must complete an application which is located in the CTE building.**
- **Offered all blocks of the d**

  Work-Based Learning (WBL) is a proactive approach to bridging the gap between high school and post-secondary opportunities. Students build on classroom-based instruction to develop employability skills that prepare them for success in future endeavors. Through experiences like internships and cooperative education, juniors and seniors at least 16 years of age may earn high school credit for capstone WBL experiences. Students may also opt for an SBE (School Based Enterprise), as an opportunity to work with their teacher instead of peer tutoring. WBL students are required to maintain 90% school attendance to remain in the WBL Program and is offered all blocks of the school-day.



Horticulture Science

Agriscience (9-10)

- **Prerequisite: None**
- **Industry Certification Opportunity: OSHA 10**

Agriscience is an introductory laboratory science course that prepares students for biology and subsequent science courses, all agriculture courses, and post-secondary study. This course helps students understand the important role that agricultural science and technology serves in the 21st century. This course may be taken for a lab science credit and/or a CTE focus area credit. This course serves as the first course for all programs of study in the Agriculture, Food and Natural Resources program.

Ag Environmental Science (10-12)

- **Prerequisite: Level 1 of Environmental and Natural Resource Management Pathway**

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 ecosystem management. Upon completion of this course, proficient students will be prepared for advanced coursework in the Environmental and Natural Resources program of study.

Plant and Soil Sciences (11-12)

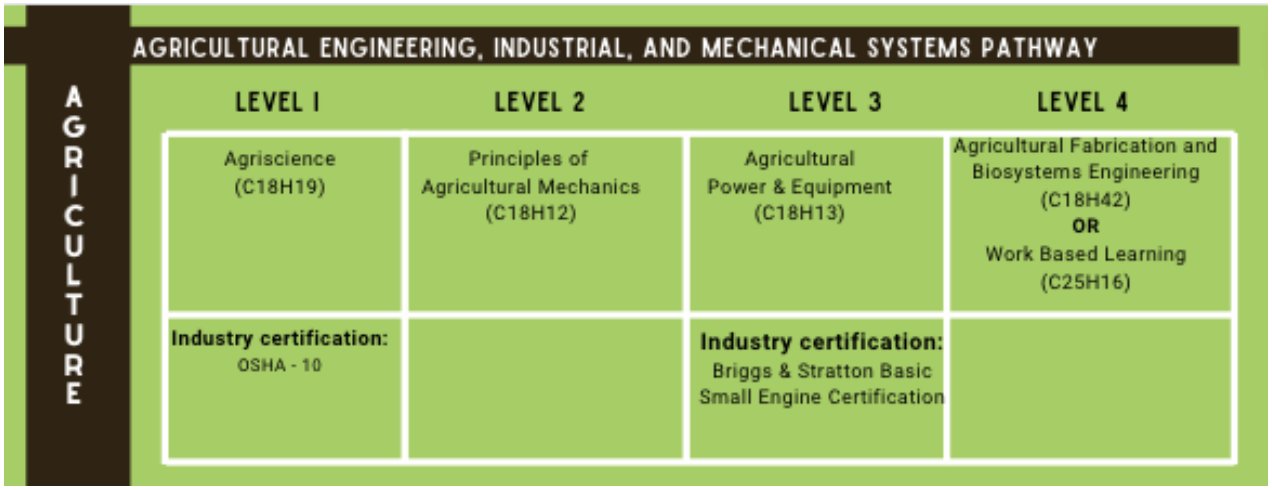
- **Prerequisite: Levels 1-2 of Environmental and Natural Resource Management Pathway**

Plant and Soil Science is an applied-knowledge course focusing on the science and management of plants and soils, with special attention given to current agricultural practices that support the healthy and sustainable cultivation of major crops. Upon completion of this course, proficient students will have been exposed to a range of careers associated with the science and management of plants and soils and will have developed the essential skills and knowledge to be successful in science- or agriculture-related occupations.

Natural Resource Management (11-12)

- **Prerequisite: Levels 1-3 of Environmental and Natural Resource Management Pathway**

Environmental and Natural Resource Management is an applied course for students interested in learning more about becoming good stewards of our environment and natural resources. This course covers major types of natural resources and their management, public policy, and the role of public education in managing resources, as well as careers, leadership, and history of the industry. Upon completion of this course, proficient students will be prepared for further study and careers as an environmental scientist, conservationist, forester, or wildlife manager.



Agriscience (9-10)

- **Prerequisite: None**
- **Industry Certification Opportunity: OSHA 10**

Agriscience is an introductory laboratory science course that prepares students for biology and subsequent science courses, all agriculture courses, and post-secondary study. This course helps students understand the important role that agricultural science and technology serves in the 21st century. This course may be taken for a lab science credit and/or a CTE focus area credit. This course serves as the first course for all programs of study in the Agriculture, Food, and Natural Resources pathway.

Principles of Agricultural Mechanics (10-11)

- **Prerequisite: Level 1 of Ag. Engineering Pathway**

Principles of Agricultural Mechanics is a course introducing students to basic skills and knowledge in construction and land management for both rural and urban environments. This course covers topics including project management, basic engine and motor mechanics, land surveying, irrigation and drainage, agricultural structures, and basic metalworking techniques.

Agricultural Power and Equipment (11-12)

- **Prerequisite: Levels 1-2 of Ag. Engineering Pathway**
- **Industry Certification Opportunity: Briggs & Stratton Basic Small Engine Certification**

Agricultural Power and Equipment is an applied-knowledge course in agricultural engineering with special emphasis on laboratory activities involving small engines, tractors, and agricultural equipment. 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.

Agricultural Fabrication and Biosystems Engineering(11-12)

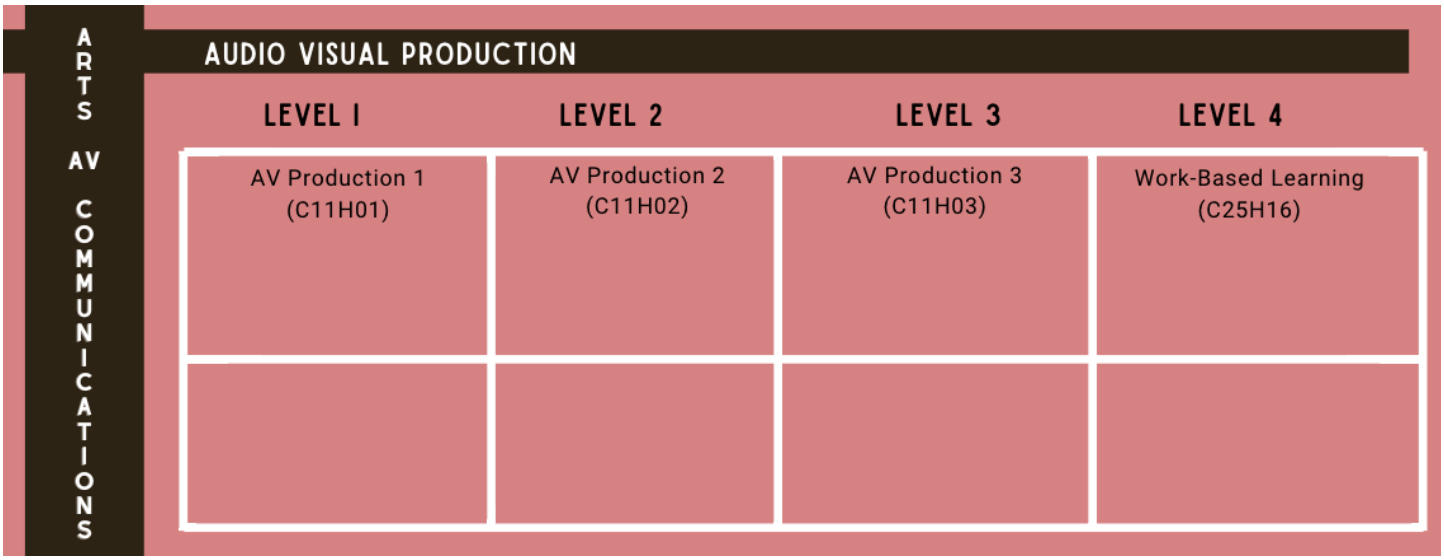
- **Prerequisite: Levels 1-3 of Ag. Engineering Pathway**

Agricultural Fabrication and Biosystems Engineering is an applied course that prepares students for further study or careers in engineering, environmental science, agricultural design and research, and agricultural mechanics and fabrication. Special emphasis is given to the many modern applications of geographic information systems (GIS) and global positioning systems (GPS) to achieve various agricultural goals. Upon completion of this

course, proficient students will be able to pursue advanced training in agricultural engineering, industrial, mechanical and related fields at a postsecondary institution.

Matthew Baldwin

A/V INSTRUCTOR
SOCIAL STUDIES INSTRUCTOR



A/V Production I

- **Prerequisite: N/A**

A/V Production I is a foundational course in the Arts, A/V Technology, & Communications cluster for students interested in A/V (audio/visual) production occupations. Upon completion of this course, proficient students will be able to explain and complete the phases of the production process including pre-production, production, and post-production. Students will establish basic skills in operating cameras, basic audio equipment, and other production equipment. Standards in this course include career exploration, an overview of the history and evolution of A/V production, and legal issues affecting A/V production. In addition, students will begin compiling artifacts for inclusion in a

portfolio, which they will carry with them throughout the full sequence of courses in this program of study.

A/V Production II

- **Prerequisite: A/V Production Level 1**

A/V Production II is the second course in the A/V Production program of study intended to prepare students for a career in audio/visual production. Building on knowledge acquired in A/V Production I, this course advances technical skill in utilizing industry equipment related to lighting and audio, and it places special emphasis on the research and technical writing involved in planning productions. Upon completion of this course, proficient students will be able to plan, capture, and edit research-based productions of increasing complexity, individually and through collaboration in teams. In addition to more robust career preparation, standards in this course include an investigation of concerns affecting A/V production businesses, such as ethical and legal issues, technology, funding, and the organization of professional roles in various industries. Students will continue compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in this program of study.

A/V Production III

- **Prerequisite: A/V Production Level 1 and 2**

A/V Production III is an applied-knowledge course intended to prepare students to pursue careers and postsecondary learning in audio/visual production. Students in this course will apply knowledge and skills from previous courses in the program of study to create productions both independently and in teams, with the option of participating in a work-based learning experience for additional credit. Students will use industry equipment and technology to complete all phases of the production process, including planning, coordinating, capturing, editing, and distributing productions. Standards in this course include policies and regulations, independent and collaborative productions, distribution of media, and the production of live events. Students will continue compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in this program of study. Upon completion of this course, proficient students will be prepared for a career in audio/visual production or to transition to a postsecondary program for further study.

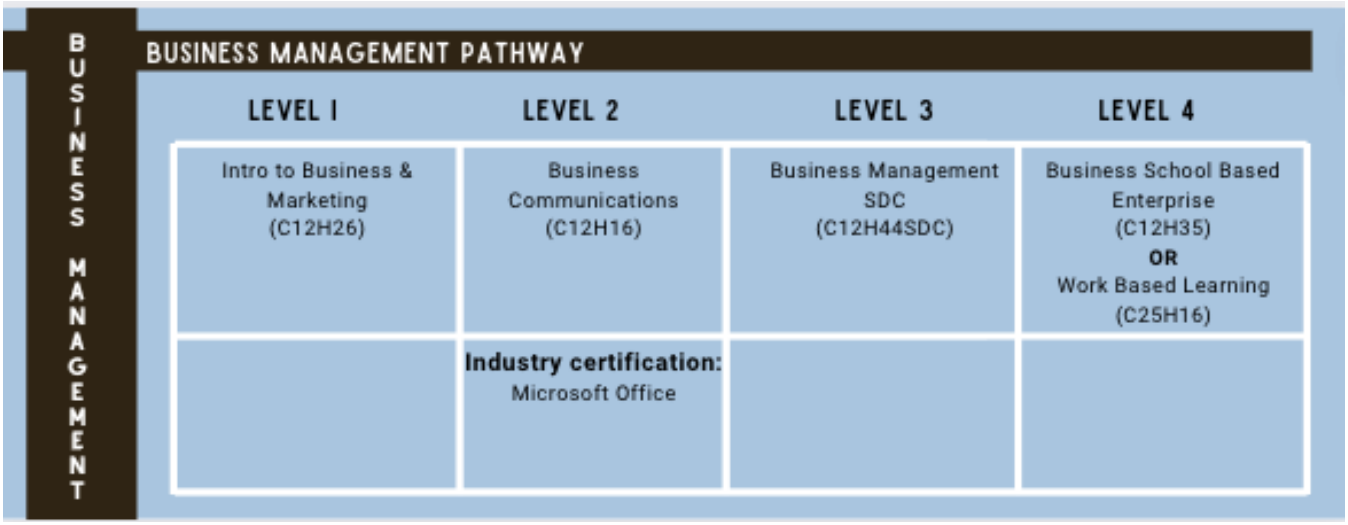
Work-Based Learning (11-12)

- **Prerequisite: At least 2 course in one of the CTE pathways**
- **Enrollment: Students must complete an application which is located in the CTE building.**
- **Offered all blocks of the d**

  Work-Based Learning (WBL) is a proactive approach to bridging the gap between high school and post-secondary opportunities. Students build on classroom-based instruction to develop employability skills that prepare them for success in future endeavors. Through experiences like internships and cooperative education, juniors and seniors at least 16 years of age may earn high school credit for capstone WBL experiences. Students may also opt for an SBE (School Based Enterprise), as an opportunity to work with their teacher instead of peer tutoring. WBL students are required to maintain 90% school attendance to remain in the WBL Program. WBL is offered all blocks of the school-day.

Cindy Magliula

BUSINESS & MARKETING
INSTRUCTOR



Introduction to Business and Marketing (9-10)

- **Prerequisite: None**

  Introduction to Business and Marketing is an introductory course designed to give students an overview of the Business Management and Administration program of study. This course helps students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance, in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers.

Business Communications (10-11)

- **Prerequisite: Level 1 in Business Management Pathway**

  Business Communications is a course designed to develop students' effective oral and electronic communication skills. This course develops skills in multiple methods of

communication, including social media, electronic publishing, design, layout, composition and video conferencing.

Business Management: State Dual Credit (11-12)

- **Prerequisite: Level 1 and 2 in the Business Management Pathway, 11th or 12th grade**

  Business Management SDC is the 3rd course in the Business Management pathway where students will learn the basic functions of business regarding management, marketing, leadership, and finance. Students will be given the opportunity to also earn college credit if they pass an exam issued by the state of Tennessee.

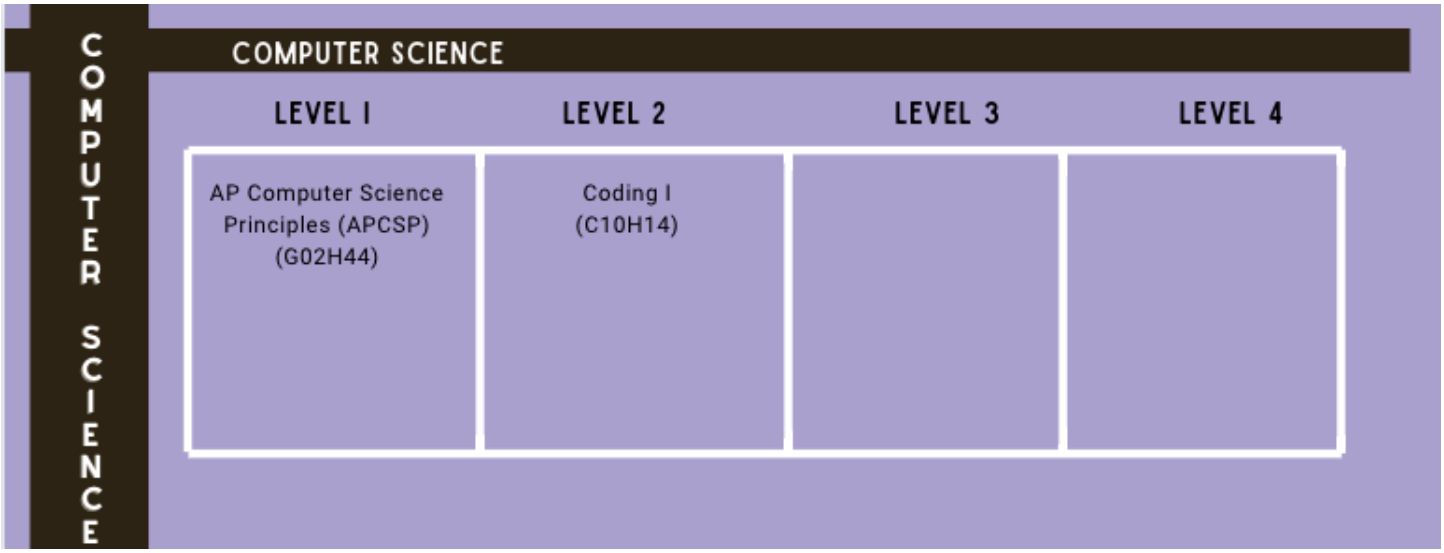
Business School Based Enterprise: WBL (11-12)

- **Prerequisite: Level 1-3 in Business Management Pathway & Teacher Recommendation**

  Work-Based Learning: Business and Marketing Career Practicum is a capstone course intended to provide students with opportunities to apply the skills and knowledge learned in previous Business and general education courses within a school-based enterprise work environment. The course allows students to earn high school credit by working in a school-based enterprise such as the school store, the greenhouse during plant sales, or as a sports marketing intern working with the athletic department. This experience, along with classroom assignments, is intended to extend and deepen classroom work and support the development of postsecondary and career readiness knowledge and skills. Other school-based enterprise opportunities will be developed as needed.

Christina Mullinax

MATH INSTRUCTOR/
COMPUTER SCIENCE
CHESS SPONSOR



AP Computer Science Principles (9-12)

- **Prerequisite: Algebra I**

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

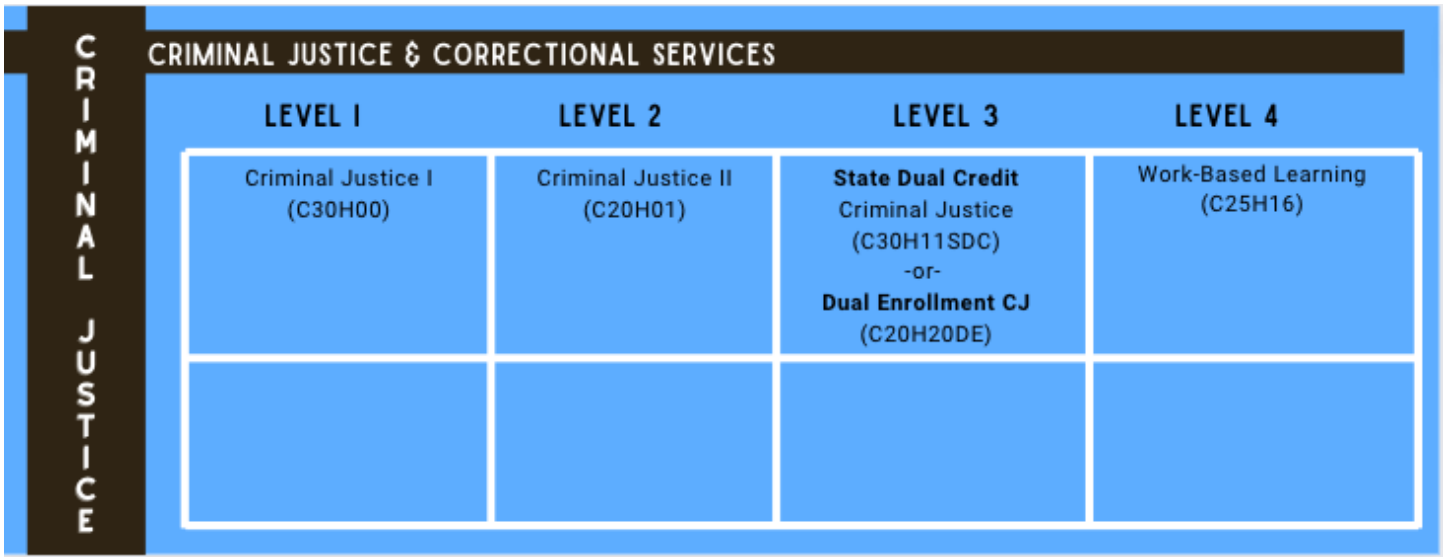
Coding I (10-12)

- **Prerequisite: AP Computer Science Principles**

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

Jimmy Yoakum

CRIMINAL JUSTICE INSTRUCTOR
ASSIST. BASEBALL COACH
SKILLS USA ADVISOR



Criminal Justice I (9-10)

- **Prerequisite: None**

This course is the first course in Criminal Justice and Corrections Service programs of study. It serves as a comprehensive survey of how law enforcement, legal and correctional systems interact with each other in the United States. Current issues will be researched in the context of local, state and federal laws. Skills will be developed in the areas of drug use, incident

documentation and basic crime scene investigation. Upon completion of the course, students will understand the importance of communication and professionalism in law enforcement.

Criminal Justice II (10-12)

- **Prerequisite: Level 1 in the Criminal Justice Pathway**

  This course is an integrated survey of the law and justice systems for students interested in pursuing careers in law enforcement and legal services. 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 of 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 post-secondary or career opportunities in associated fields.

State Dual Credit: Criminal Justice III (11-12)

- **Prerequisite: Level 1-2 in the Criminal Justice Pathway**
- **Course Type: Statewide Dual Credit**

  This course will provide students with an opportunity to explore the basic processes and principles of forensic science as it relates to criminal investigation. Students will learn the importance of the identification, collection, and processing of evidence and of its contribution to the criminal investigation. Students will learn of the legal responsibilities and challenges which the forensic investigator may encounter from initial response to the courtroom. Students will be given the opportunity to also earn college credit if they pass the Challenge Exam issued by the state of Tennessee.

Intro to Criminal Justice: Dual Enrollment / TN Wesleyan University (11- 12)

- **Prerequisite: Level 1-2 in the Criminal Justice Pathway**
- **Course Type: Dual Enrollment**
- **Offered: Fall / Spring**

  Intro to Criminal Justice is a dual enrollment opportunity through TN Wesleyan which encompasses a comprehensive examination of the criminal justice system including law enforcement, courts, and corrections; analysis of the problems and needs of the agencies involved in the criminal justice process; a survey of professional career opportunities.

Work Based Learning

- **Prerequisite: Level 1-3 in the Criminal Justice Pathway**
- **Course Type: Capstone**
- **Offering: Fall/Spring**

  Work Based Learning is a capstone course in the Criminal Justice and Corrections Service program of study that provides a hands-on learning experience for students as they develop an understanding of professional and ethical issues. Upon completion of the course, students will be proficient in components of communication, critical thinking, problem solving, information technology, ethical and legal responsibilities, leadership, and teamwork. Instruction may be delivered through school-based laboratory training or through work-based learning arrangements such as cooperative education, mentoring, and job shadowing. Work based learning is offered all blocks of the school-day.

Chef W.A. Brant Thomas

CULINARY ARTS INSTRUCTOR
SKILLS USA ADVISOR

CULINARY ARTS

CULINARY ARTS PATHWAY

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Culinary Arts 1 (C16H06)	Culinary Arts II (C16H07)	Culinary Arts III (C16H08)	Culinary Arts IV (C16H09) **OR** Work Based Learning (C25H16)
		Industry certification: ServSafe Food Manager	**Industry certification:** ServSafe Food Manager

Culinary Arts I (9-11)

- **Prerequisite: None**

  Culinary Arts I prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. The course is designed to introduce students to food preparation concepts, terminology and practices in the modern commercial kitchen. The content provides students the opportunity to acquire marketable skills by examining both the culinary industry and its career opportunities and by developing food preparation, service and interpersonal skills. Fundamental techniques and skills are taught with an emphasis on safety, sanitation, and proper equipment operation and maintenance. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning opportunities.

Culinary Arts II (10-12)

- **Prerequisite: Level 1 in the Culinary Arts Pathway**

  Culinary Arts II prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. The content provides students the opportunity to acquire marketable skills necessary to manage an environment conducive to quality food production and service operations by demonstrating the principles of safety and sanitation, food preparation, and teamwork. Laboratory facilities and experiences, which

simulate commercial food production and service operations, offer school-based learning and work-based learning opportunities.

Culinary Arts III (11-12)

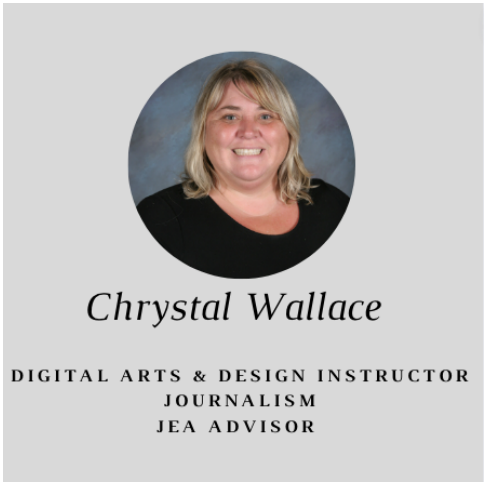
- **Prerequisite: Level 1-2 in the Culinary Arts Pathway**
- **Industry Certification Opportunity: ServSafe Food Manager Certification**

Culinary Arts III serves as a capstone course. It, too, prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. The content provides students the opportunity to apply the marketable culinary arts skills they have acquired by assuming increasingly responsible positions, including participation in a cooperative education experience.

Culinary Arts IV (12)

- **Prerequisite: Level 1-3 in the Culinary Arts Pathway**
- **Industry Certification Opportunity: ServSafe Food Manager Certification**

Culinary Arts IV is the capstone course in the Culinary Arts pathway and is intended to prepare students for careers such as personal chef, caterer, executive chef, and food and beverage manager. Course content covers the components of commercial kitchen safety and sanitation, food presentation, bakeshop preparation skills, sustainability practices, professionalism, and business opportunities. Upon completion of this course, proficient students will have applied the full range of knowledge and skills acquired in this pathway toward the planning and catering of an event approved by the instructor.



Digital Arts and Design I (9-10)

- **Prerequisite: None**

  This course provides a foundation in design concepts and applies these concepts to the visual art, design, printing, and photography industries. Course content is designed to foster skills and understanding that are essential in modern digital design. Focus will be on developing an understanding of key design concepts and strategies, along with design challenges that translate into creative communication solutions which accurately and effectively reach targeted audiences. Students will explore various applications of design through extensive study of typography, photography, photo enhancement with Photoshop CC editing software and photography using Canon digital cameras, composition, visual elements, color, and various problem-solving tasks. In addition, students will begin compiling artifacts for inclusion in a digital portfolio which they will carry with them throughout the full sequence of courses in this program of study. At the end of the course there is an option to take an Adobe Photoshop certification exam. **This course satisfies the state "Fine Arts" graduation credit.**

Digital Arts and Design II (10-11)

- **Prerequisite: Level 1 of the Digital Arts Pathway; Teacher recommendation**

  This course is designed to broaden the foundation of design concepts and understanding fostered in Digital Arts 1 and use those skills to create student publications such as the yearbook, video announcements, online newspaper, radio broadcasts, and video interviewing. Industry standard software is used, as well as studying the cost of design and career exploration. In addition, students will continue compiling artifacts for inclusion in a digital portfolio which they will carry with them throughout the full sequence of courses in this program of study.

Digital Arts and Design III (11-12)

- **Prerequisite: Level 1-2 of the Digital Arts Pathway; Teacher recommendation**
- **Industry Certification Opportunity: Adobe Certified Associate Industry**

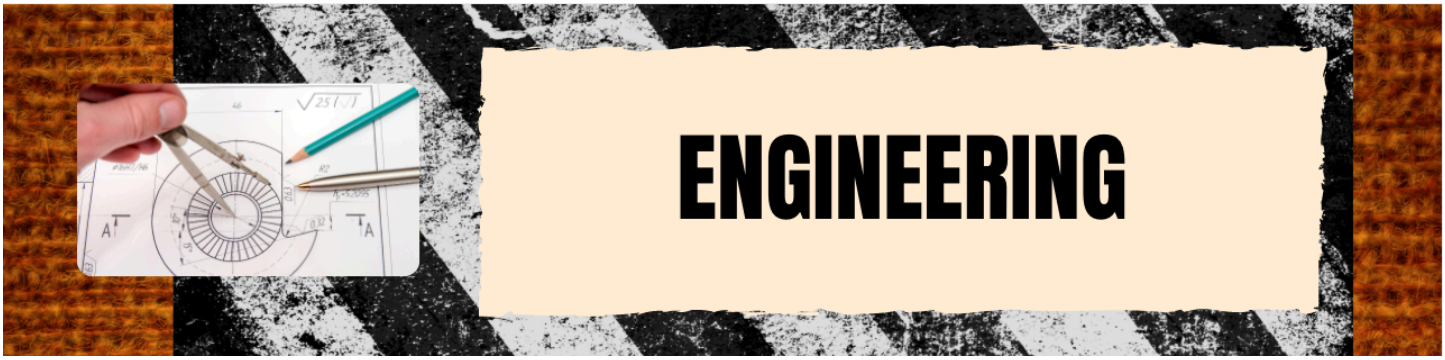
  This course is designed to broaden the foundation of design concepts and understanding fostered in Digital Arts II, and use those skills to create student publications such as the yearbook, video announcements, online newspaper, radio broadcasts, and video interviewing. Industry standard software is used, as well as studying the cost of design and career exploration. In addition, students will continue compiling artifacts for inclusion in a digital portfolio which they will carry with them throughout the full sequence of courses in this program of study.

Journalism A / B (10-12)

- **ADMISSION BY APPLICATION ONLY**
- **Click HERE to fill out the application**

  This class offers a variety of learning experiences in business, graphic arts, photography, and writing. This is a production class in which the member accepts responsibility for the creation of the yearbook, video news, and school newspaper. Students who are hard workers, possess specialized talents, and are willing to accept a challenge are encouraged to apply for admission

into this class. This class requires a year-long commitment for which students may earn two (2) credits each year enrolled.



Steven Code

ENGINEERING INSTRUCTOR
SCIENCE OLYMPIAD ADVISOR

ENGINEERING

ENGINEERING PATHWAY

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Principles of Engineering & Technology (POET) (C21H04)	Engineering Design I (C21H05)	Engineering Design II (C21H06)	**Dual Enrollment Engineering Capstone** (C21H00DE)
Industry certification: AutoDesk Certified User: • Inventor	**Industry certification:** AutoDesk Certified User: • Inventor • Revit for Architecture	**Industry certification:** AutoDesk Certified User: • Revit for Architecture	

Principles of Engineering & Technology (9-10)

- **Prerequisite: N/A**

Principles of Engineering and Technology is a foundational course for students interested in learning more about careers in engineering and technology. This course covers basic skills required for engineering and technology fields of study. Upon completion of this course, proficient students are able to identify and explain the steps in the engineering design process. They can evaluate an existing engineering design, use fundamental sketching and engineering drawing techniques including CAD software to create three dimensional drawings, complete

simple design projects using the engineering design process, and effectively communicate design solutions to others.

Engineering Design I (10-11)

- **Prerequisite: Level 1 of the Engineering Pathway**

Engineering Design I extends the design process, sketching and CAD skills learned in POE by solving real world problems. The student will explore mechanical engineering concepts through challenging machine design projects. They will also be able to identify simple and complex machines; calculate various ratios related to mechanisms; explain fundamental concepts related to energy; and understand Ohm's Law. The final team project will introduce architecture CAD software to design a handicap accessible Habitat for Humanity house.

Engineering Design II (10-12)

- **Prerequisite: Levels 1-2 of the Engineering Pathway**

Engineering Design II is a fundamental course in the STEM cluster for students interested in developing their skills in preparation for careers in engineering and technology. The course covers essential knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to describe various engineering disciplines, as well as admissions requirements for postsecondary engineering and engineering technology programs in Tennessee. Engineering systems are studied including machine control (programming), Fluid mechanics, and Materials and Mechanical Properties. The final team project will be an engineering problem that will use architecture CAD software to design buildings, roads, bridges, and landscape to meet a need of the community. It will include calculating forces in statics and studying engineering ethics, economics, and social and environmental impacts of the project.

Dual Enrollment Engineering Capstone (C21H00DE)

- **Prerequisite: Levels 1-3 of the Engineering Pathway**

This course is a study of the mechanical components that are included in a complex mechatronic system. Topics covered will include an overview of Statics and Kinetics with a focus on force system analysis, study of equilibrium, frames and machines, friction and the effects of forces on the motion of objects. Fundamentals and classification of machine elements to include calculations involving force, stress and wear analysis will also be covered.
Not part of a TN Transfer Pathway.

Jennifer Kuth

BIOLOGY
HEALTH SCIENCE INSTRUCTOR
DIAGNOSTIC MEDICINE
HOSA ADVISOR

Aubrey Lambdin

HEALTH SCIENCE INSTRUCTOR
EMERGENCY MEDICINE
HOSA ADVISOR

Jennifer McCombs-Cleveland

HEALTH SCIENCE INSTRUCTOR
MEDICAL THERAPEUTICS / NURSING
HOSA ADVISOR

DIAGNOSTIC SERVICES

HEALTH SCIENCE DIAGNOSTIC SERVICES PATHWAY

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Health Science (C14H14)	H Diagnostic Medicine (C14H12)	H Anatomy & Physiology (C14H09)	H Clinical Internship (C14H11)
		Industry certification: OSHA 10 General Industry	

Health Science Education (9-10)

- **Prerequisite: None**
  This course is an introduction to broad standards that serve as a foundation for health care occupations and functions. Academic units include medical terminology, medical math, healthcare communications systems, legal responsibilities, ethics, teamwork, CPR, First Aid, and safety practices.

Honors Diagnostic Medicine (10-12)

- **Prerequisite: Level 1 of Diagnostics Pathway**

  Diagnostic Medicine creates a picture of an individual's health status at a single point in time. This could include the following career areas: audiology, cardiology, imaging, medical laboratory, radiography, nuclear medicine, stereotactic radiosurgery, cytotechnology, clinical laboratory technology, pathology, medical physician, histotechnology. This is an honors course, therefore students should expect assigned readings and projects outside of class. *Upon completion of the course, a student may petition to enroll in the Clinical Internship.*

Honors Anatomy and Physiology (10-12)

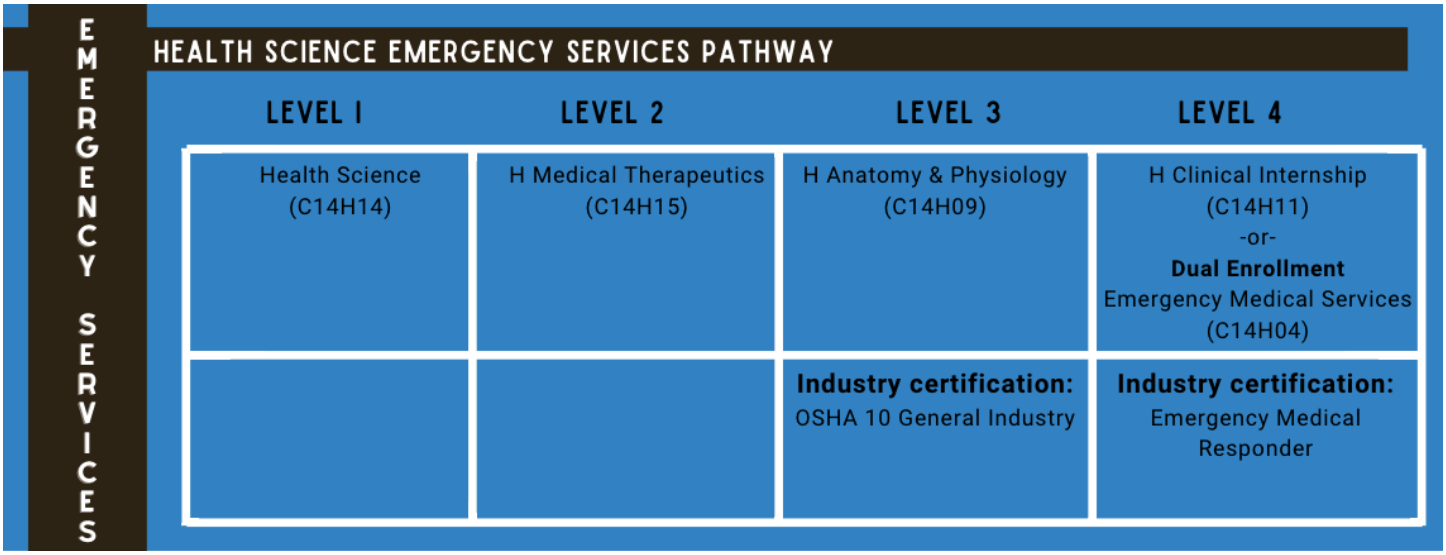
- **Prerequisite: Level 1-2 of Diagnostics Pathway**
- **B or greater in Biology and Chemistry**
- **Industry Certification Opportunity: OSHA 10 General Industry**

  Honors Anatomy and Physiology is an upper level course designed to develop an understanding of the structures and functions of the human body, while relating those to knowledge and skills associated with pathophysiology. Upon completion of this course, proficient students will be able to apply the gross anatomy from earlier courses to a deeper understanding of all body systems; identify the organs and structures of the support and movement systems, relate the structure and function of the communication, control, and integration system, and demonstrate a professional, working understanding of the transportation, respiration, excretory, and reproduction systems. *This course may be taken for a lab science credit or a CTE focus area credit.*

Honors Clinical Internship (11-12)

- **Prerequisite: Prerequisite: Level 1-3 of Diagnostics Pathway**
- **Enrollment: By Application Only (qualifying applicants will be notified after review and selection) / Repeatable**
- **Required reading: Every Patient Tells a Story.**

  The Clinical Internship class includes a variety of knowledge and skills necessary to become a successful health care worker. This course is provided for each health science teacher to design experiences in a health care facility in order to meet the needs of the community. Students may petition to enroll in an internship in a hospital, rehabilitation center, medical office, veterinary clinic, dental office, pharmacy, or other health care facility (the placement will be determined by the student's individual program of study). This course may be repeated for additional credits.



Health Science Education (9-10)

- **Prerequisite: None**
  This course is an introduction to broad standards that serve as a foundation for health care occupations and functions. Academic units include medical terminology, medical math, healthcare communications systems, legal responsibilities, ethics, teamwork, CPR, First Aid, and safety practices.

Honors Medical Therapeutics (10-12)

- **Prerequisite: Level 1 of the Emergency Services Pathway**
  This course provides the knowledge and skills to maintain or change the health status of an individual over time. This could include such career areas as dentistry, dietetics, medical assistance, home health, nursing, pharmacy, psychiatry, psychology, veterinary science, gerontology, medical practice owner, and attorney for health care. This is an honors course, therefore students should expect assigned readings and projects outside of class. *Upon completion of this course, a student may petition to enroll in the Clinical Internship Program and/or Nursing Education Program.*

Honors Anatomy and Physiology (10-12)

- **Prerequisite: Level 1-2 of Emergency Services Pathway**
- **B or greater in Biology and Chemistry**
- **Industry Certification Opportunity: OSHA 10 General Industry**
  Honors Anatomy and Physiology is an upper level course designed to develop an understanding of the structures and functions of the human body, while relating those to knowledge and skills associated with pathophysiology. Upon completion of this course, proficient students will be able to apply the gross anatomy from earlier courses to a deeper understanding of all body systems; identify the organs and structures of the support and movement systems, relate the structure and function of the communication, control, and integration system, and demonstrate a professional, working understanding of the transportation, respiration, excretory, and reproduction systems. *This course may be taken for a lab science credit or a CTE focus area credit.*

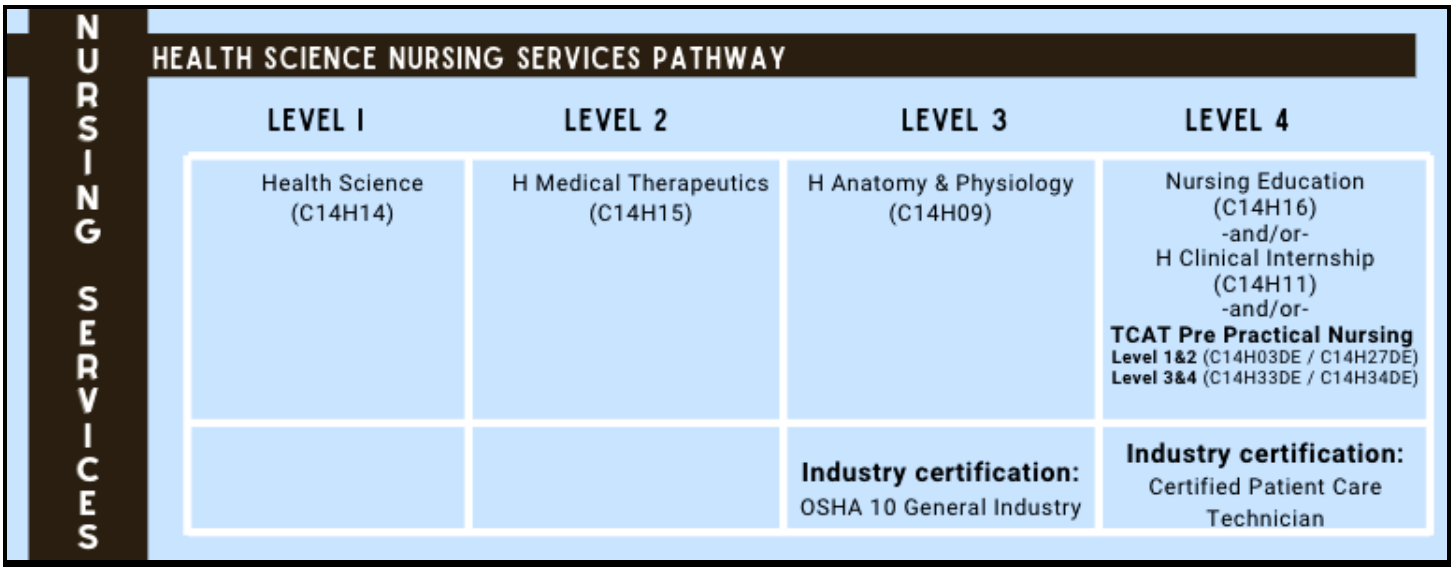
Honors Clinical Internship (11-12)

- **Prerequisite: Prerequisite: Level 1-3 of Emergency Services Pathway**
- **Enrollment: By Application Only (qualifying applicants will be notified after review and selection) / Repeatable**
- **Required reading: Every Patient Tells a Story.**
  The Clinical Internship class includes a variety of knowledge and skills necessary to become a successful health care worker. This course is provided for each health science teacher to design experiences in a health care facility in order to meet the needs of the community. Students may petition to enroll in an internship in a hospital, rehabilitation center, medical office, veterinary clinic, dental office, pharmacy, or other health care facility (the placement will be determined by the student's individual program of study). This course may be repeated for additional credits.

Dual Enrollment: Emergency Medical Services On-Site (11-12)

- **Prerequisite: Levels 1-3 in the Emergency Services Pathway + Clinical Internship**
- **Course Type: Dual Enrollment through Roane State**
- **Industry Certification Opportunity: Emergency Medical Responder**
  This course 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. *Students must meet the dual enrollment requirements of*

RSCC and must be 17 years of age at the conclusion of the class to meet requirements for the National First Responder Exam. Upon completion of the course, a student may petition to enroll in the Clinical Internship.



Health Science Education (9-10)

- **Prerequisite: None**

  This course is an introduction to broad standards that serve as a foundation for health care occupations and functions. Academic units include medical terminology, medical math, healthcare communications systems, legal responsibilities, ethics, teamwork, CPR, First Aid, and safety practices.

Honors Medical Therapeutics (10-12)

- **Prerequisite: Level 1 of the Nursing Services Pathway**

  This course provides the knowledge and skills to maintain or change the health status of an individual over time. This could include such career areas as dentistry, dietetics, medical assistance, home health, nursing, pharmacy, psychiatry, psychology, veterinary science, gerontology, medical practice owner, and attorney for health care. This is an honors course, therefore students should expect assigned readings and projects outside of class. *Upon completion of this course, a student may petition to enroll in the Clinical Internship Program and/or Nursing Education Program.*

Honors Anatomy and Physiology (10-12)

- **Prerequisite: Level 1-2 of Nursing Pathway**
- **B or greater in Biology and Chemistry**
- **Industry Certification Opportunity: OSHA 10 General Industry**

  Honors Anatomy and Physiology is an upper level course designed to develop an understanding of the structures and functions of the human body, while relating those to knowledge and skills associated with pathophysiology. Upon completion of this course, proficient students will be able to apply the gross anatomy from earlier courses to a deeper

understanding of all body systems; identify the organs and structures of the support and movement systems, relate the structure and function of the communication, control, and integration system, and demonstrate a professional, working understanding of the transportation, respiration, excretory, and reproduction systems. *This course may be taken for a lab science credit or a CTE focus area credit.*

Honors Clinical Internship (11-12)

- **Prerequisite: Prerequisite: Level 1-3 of Nursing Pathway**
- **Enrollment: By Application Only (qualifying applicants will be notified after review and selection) /Repeatable**
- **Required reading: Every Patient Tells a Story.**

The Clinical Internship class includes a variety of knowledge and skills necessary to become a successful health care worker. This course is provided for each health science teacher to design experiences in a health care facility in order to meet the needs of the community. Students may petition to enroll in an internship in a hospital, rehabilitation center, medical office, veterinary clinic, dental office, pharmacy, or other health care facility (the placement will be determined by the student's individual program of study).

Nursing Education (11-12)

- **Prerequisites: Level 1-3 in the Nursing Pathway**
- **Teacher recommendation**
- **Industry Certification Opportunity: Certified Patient Care Technician (CPCT)**

Nursing Education is a capstone course designed to prepare students to pursue careers in the field of nursing. Upon completion of this course, a proficient student will be able to implement communication and interpersonal skills, maintain residents' rights and independence, provide care safely, prevent emergency situations, prevent infection control, and perform the skills required of a nursing assistant. Prior to beginning work at a clinical site, students must be certified in Basic Life Support (BLS), Cardiopulmonary Resuscitation (CPR) and deemed competent in basic first aid, body mechanics, Standard Precaution guidelines and confidentiality.Our school has a Nursing Education Program of study in which we pursue certification as a Certified Patient Care Technician (CPCT). What's the difference between a CPCT and a CNA (Certified Nursing Assistant)? To clarify, CNAs, or certified nursing assistants, are trained in programs approved by the state, and their certification is monitored by the Tennessee Department of Health. Most often, CNAs are employed in Long-Term Care Facilities, but some may be employed in hospitals or by home health agencies. CNAs provide bedside and personal care for patients, but they do not draw blood or perform ECGs. By federal regulation, CPCTs, or certified patient care technicians, are NOT allowed to work in Long-Term Care Facilities and are most often employed in hospitals or by home health agencies. As do CNAs, CPCTs provide bedside and personal care, but they may also be assigned to draw blood or perform an ECG based on their facilities' protocols.

TCAT -Harriman: Pre Practical Nursing Program 1-4 (12)

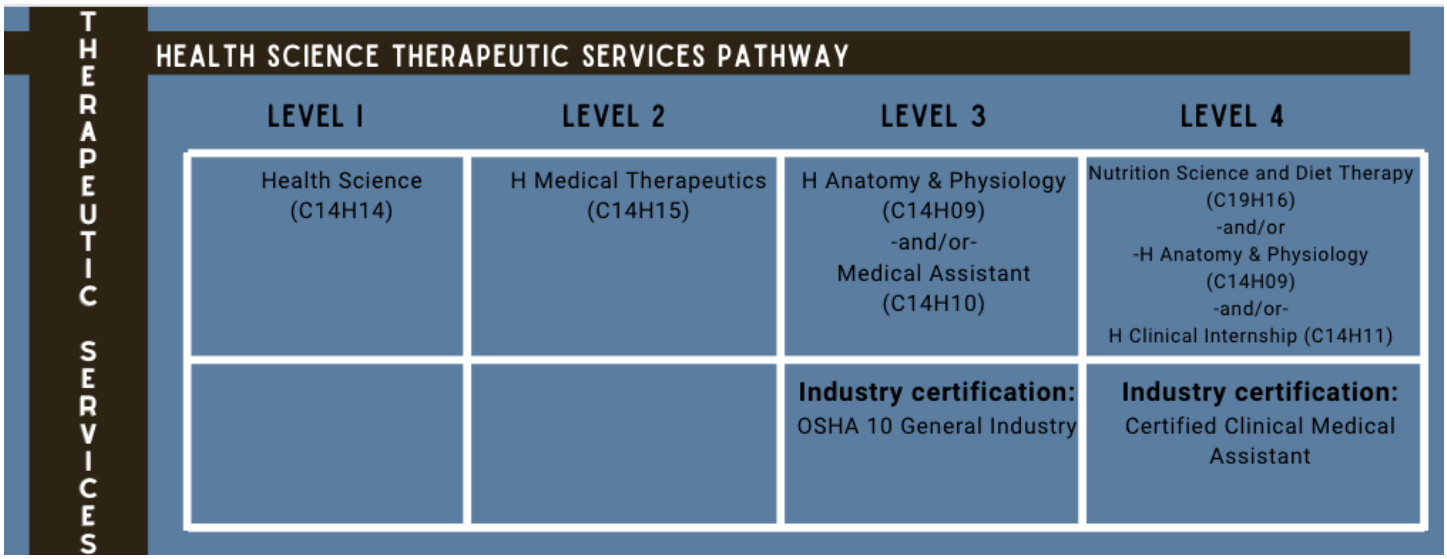
- **Prerequisites: Level 1-3 in the Nursing Pathway**
- **Teacher recommendation**

Earn postsecondary credits while in high school. Become familiar with postsecondary rigor and expectations Develop confidence and skills for success in postsecondary learning Make informed postsecondary and career decisions Decrease the time and cost of completing a certificate or diploma The purpose of the Pre-Practical Nursing Pathway is to establish this early postsecondary opportunity (EPSO) for the purpose of providing eligible high school students the opportunity to earn both college and high school graduation credits simultaneously upon successful completion of qualified courses/program.

Participating in EPSOs allow students to:

- Earn postsecondary credits while in high school
- Become familiar with postsecondary rigor and expectations
- Develop confidence and skills for success in postsecondary learning
- Make informed postsecondary and career decisions
- Decrease the time and cost of completing a certificate or diploma

CLICK HERE for more information about the PN Program at TCAT-Harriman.



Health Science Education (9-10)

- **Prerequisite: None**

  This course is an introduction to broad standards that serve as a foundation for health care occupations and functions. Academic unit include medical terminology, medical math, healthcare communications systems, legal responsibilities, ethics, teamwork, CPR, First Aid, and safety practices.

Honors Medical Therapeutics (10-12)

- **Prerequisite: Level 1 of the Therapeutics Services Pathway**

  This course provides the knowledge and skills to maintain or change the health status of an individual over time. This could include such career areas as dentistry, dietetics, medical assistance, home health, nursing, pharmacy, psychiatry, psychology, veterinary science, gerontology, medical practice owner, and attorney for health care. This is an honors course, therefore students should expect assigned readings and projects outside of class. *Upon completion of this course, a student may petition to enroll in the Clinical Internship Program and/or Nursing Education Program.*

Honors Anatomy and Physiology (10-12)

- **Prerequisite: Level 1-2 of Nursing Pathway**
- **B or greater in Biology and Chemistry**
- **Industry Certification Opportunity: OSHA 10 General Industry**

  Honors Anatomy and Physiology is an upper level course designed to develop an understanding of the structures and functions of the human body, while relating those to knowledge and skills associated with pathophysiology. Upon completion of this course, proficient students will be able to apply the gross anatomy from earlier courses to a deeper

understanding of all body systems; identify the organs and structures of the support and movement systems, relate the structure and function of the communication, control, and integration system, and demonstrate a professional, working understanding of the transportation, respiration, excretory, and reproduction systems. *This course may be taken for a lab science cr*
edit or a CTE focus area credit.

Nutrition Science and Diet Therapy

- **Prerequisite: Level 1-2 of Therapeutics Services Pathway**

  Nutrition Science and Diet Therapy is an applied knowledge course in nutrition for students interested in the role of nutrition in health and disease. Upon completion of this course, proficient students will be able to develop a nutrition care plan as part of the overall health care process, use methods for analyzing the nutritional health of a community, and understand the relationship of diet and nutrition to specific diseases. The course places emphasis on the role of diet as a contributor to disease and its role in the prevention and treatment of disease. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

Honors Clinical Internship (11-12)

- **Prerequisite: Prerequisite: Level 1-3 of NursingPathway**
- **Enrollment: By Application Only (qualifying applicants will be notified after review and selection)**
- **Required reading: Every Patient Tells a Story.**

  The Clinical Internship class includes a variety of knowledge and skills necessary to become a successful health care worker. This course is provided for each health science teacher to design experiences in a health care facility in order to meet the needs of the community. Students may petition to enroll in an internship in a hospital, rehabilitation center, medical office, veterinary clinic, dental office, pharmacy, or other health care facility (the placement will be determined by the student's individual program of study). This course may be repeated for additional credits.

HVAC

HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Beginning HVAC (C17H152)	Intermediate HVAC (C17H23)	**DE: HVAC I** (C17H03DE) **DE: HVAC II** (C17H30DE) **DE: HVAC III** (C17H39DE) **DE: HVAC IV** (C17H40DE)	**DE: HVAC I** (C17H03DE) **DE: HVAC II** (C17H30DE) **DE: HVAC III** (C17H39DE) **DE: HVAC IV** (C17H40DE)
Industry certification: OSHA 10 General Industry OSHA 30 NC3 Prec. Meas. NC3 Adv. Multimeter NC3 Trane 1 Airflow	**Industry certification:** EPA 608 NC3 Trane 2-Refrigerant Diagnostics		

Beginning HVAC (9-10)

- **Prerequisite: None**
- **Industry Certification Opportunity: OSHA 10, OSHA 30, NC3 Prec. Meas., NC3 Adv. Multimeter, and NC3 Trane 1 Airflow**

HVAC (Heating, Ventilation, Air Conditioning, and Refrigeration) is a course that will introduce students to basic skills and knowledge applicable to all construction trades and HVAC. 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. Safety training for OSHA and EPA requirements, fire safety, and workplace issues are covered thoroughly.

Intermediate HVAC (9-10)

- **Prerequisite: Fundamentals of Construction**

- **Industry Certification Opportunity: EPA 608, NC3 Trane 2-Refrigerant Diagnosis**
- Intermediate HVAC (Heating, Ventilation, Air Conditioning, and Refrigeration) prepares students for electrical, plumbing, and HVAC careers by introducing students to the physical principles of these systems and the fundamental skills needed to work with them. Upon completion of this course, proficient students will be able to follow safety procedures and use tools to perform basic operations with electrical circuits, as well as demonstrate understanding in fundamental concepts of electricity theory (i.e. Ohm's Law). Students will be able to apply proper tools and procedures to perform basic operations with plastic piping, including measuring, cutting, and joining pipe. Furthermore, students will be able to apply mathematics concepts to solve HVAC, electrical, and plumbing problems. Standards in this course also include principles of the construction industry and business and project management. Students will continue compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in this program of study.

Dual Enrollment HVAC I,II, III, & IV (11-12)

- **Prerequisite: Levels 1-2 of HVAC Pathway**
- **Industry Certification Opportunity:**
- Dual Enrollment HVAC (Heating, Ventilation, Air Conditioning, and Refrigeration) prepares students for electrical, plumbing, and HVAC careers by introducing students to the physical principles of these systems and the fundamental skills needed to work with them. Students will participate in a potential work-based learning career practicum and experience and receive a successful recommendation from a sponsoring employee.

Kevin Smith

MECHATRONICS INSTRUCTOR
SKILLS USA ADVISOR

MECHATRONICS

MECHATRONICS PATHWAY - MIDDLE COLLEGE SCENARIO

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Principles of Engineering Technology (C21H04)	Honors Digital Electronics (C13H07)	DE FALL 11TH: MECH 1 - 1310/1320 Electrical Components w/ Mechanical Components & Electric Motors (C13H04DE) DE FALL 11TH: MECH 2 - 1330/1340 Pneumatic and Hydraulic Control Circuits w/ Digital Fundamentals & PLCs (C13H21DE) DE SPRING 11TH: MECH 3 - ENST 1311 COMPUTERATED DESIGN/MECH 2320 (C13H36DE) DE SPRING 11TH: MECH 4 - 2480/1390 Automation Systems w/ Innovative Production and Problem Solving (C13H37DE)	DE FALL 12TH MECH 5 MECH 2440 Process Control Technology with MECH 2441 Introduction to Totally Integrated Automation DE SPRING 12TH MECH 6 MECH CNC Manufacturing with MECH 2490 Manufacturing Applications (Capstone Course) Industry Certification: Siemens Exam

MIDDLE COLLEGE: There are fees involved with taking Dual Enrollment Mechatronics classes through Roane State UNLESS you are part of the Middle College Program. Please talk to your counselor for more information regarding Middle College.

Principles of Engineering Technology (9-10)

- **Prerequisite: None**

  Principles of Engineering and Technology is a foundational course for students interested in learning more about careers in engineering and technology. This course covers basic skills required for engineering and technology fields of study. Upon completion of this course, proficient students are able to identify and explain the steps in the engineering design process. They can evaluate an existing engineering design, use fundamental sketching and engineering drawing techniques, complete simple design projects using the engineering design process, and effectively communicate design solutions to others. Mechanical engineering concepts are explored through challenging machine design projects. Electrical engineering is also explored

through the coverage of Ohm's Law, Kirchhoff's Law, and Watt's Law. Pascal's Law and fluid power are also covered. In addition, bridge design and truss analysis calculations address the area of civil engineering.

Digital Electronics (10)

- **Prerequisite: Principles of Engineering Technology Preferred not required.**
  Honors Digital Electronics is intended to provide students with an introduction to the basic components of digital electronic systems and equip them with the ability to use these components to design more complex digital systems. Proficient students will be able to (1) describe basic functions of digital components (including gates, flip flops, counters, and other devices upon which larger systems are designed), (2) use these devices as building blocks to design larger, more complex circuits, (3) implement these circuits using programmable devices, and (4) effectively communicate designs and systems. Students develop additional skills in technical documentation when operating and troubleshooting circuits. Students will be able to design a complex digital system and communicate their designs through a variety of media.

MECHATRONICS 1 (MECH1310 & MECH1320)

MECH 1310 Electrical Components

This course is a study of the basic electrical components in a mechatronic system. Topics covered will include basic functions and physical properties of electrical components; the systematic flow of energy and measurement of components; troubleshooting techniques and strategies to identify, localize and correct malfunctions; and systematic preventive maintenance and electrical component safety. Technical documentation such as data sheets, schematics, timing diagrams and system specifications will also be covered.

MECH 1320 Mechanical Components and Electric Motors

This course is a study of the basic mechanical components and electrical drives in a mechatronics system. Topics covered will include basic functions and physical properties of mechanical components and electrical AC and DC drives; materials, lubrication requirements, and surface properties; troubleshooting techniques and strategies to identify, localize and correct malfunctions; and systematic preventive maintenance and electrical component safety. Technical documentation such as data sheets and specifications of mechanical elements and electrical drives will also be covered.

MECHATRONICS 2 (MECH 1330 & MECH 1340)

MECH 1330 Pneumatic and Hydraulic Control Circuits

This course covers the basics of pneumatic, electro-pneumatic and hydraulic control circuits in a complex mechatronic system. Students will learn the functions and properties of control elements based on physical principles, and the roles they play within the system. By understanding and performing measurements on the pneumatic and hydraulic control circuits, students will learn and apply troubleshooting strategies to identify, localize and correct malfunctions. Preventive maintenance of pneumatic and hydraulic components as well as safety issues within the system will be discussed.

MECH 1340 Digital Fundamentals and PLCs

This course is a study of basic digital logic and programmable logic controllers (PLCs) in a mechatronics system. Topics covered will include basic PLC functions and testing; identification of malfunctioning PLCs; and troubleshooting techniques and strategies to identify and localize PLC hardware generated problems. Emphasis is on writing small programs and problem-solving using computer simulations.

MECHATRONICS 3 (ENST1311 & MECH 2320)

Prerequisite: MECH 1310, 1320

ENST 1311 Computer Aided Design I

This course is a study of engineering/manufacturing drafting focusing on CAD (computer-aided design). Students learn to create and read basic engineering/manufacturing drawings used for mechanical parts, area plans, sheet metal and 3D printing projects. Basic drafting concepts of 2-D and 3-D drawings, model building (part), assemblies, details and dimensioning are covered. Students will learn to define and document drawings using traditional dimensioning standards.

MECH 2320 Motor Control

This course covers the principles of AC and DC motors, motor control, and general machine operations in a complex mechatronic system. Topics covered will include general machine operations and motor control techniques; mechanical components and electric drives; motor sensors, braking and loads; motor efficiency and power; preventive measures and troubleshooting techniques. By understanding and performing measurements on motors and motor control circuits, students will learn and apply troubleshooting strategies to identify, localize and correct malfunctions. Safety issues within the system will also be discussed.

MECHATRONICS 4 (MECH2480 & MECH 1390)

Prerequisite: MECH 1310, 1320, 1330, 1340

MECH 2480 Automation Systems

This course is a study of automation applications and techniques utilized within complex mechatronic systems. Topics covered will include: manufacturing technologies, microcontrollers and programming, assembly robots, and interfacing those robots with PLCs. This class will use microcontrollers, robotics, man/machine and machine/machine interfaces to introduce learners to the capabilities and applications of modern automation systems. Emphasis is on writing, executing, and troubleshooting programs designed to automate manufacturing processes and systems.

Pre/Co-requisite: MECH 2480

MECH 1390 Innovative Production and Problem Solving

This is a problem solving course in which students work in teams to develop an original solution to a well-defined and justified open-ended problem by applying knowledge and skills developed in previous courses. Students will define or be presented with a real-world manufacturing problem and will create multiple solution approaches. They will select an approach, and then create and test their prototype solution. Student teams will present and defend their original solution.

Prerequisite: MECH 1310, 1320, 1330, 1340

MECHATRONICS 5 (MECH2440 Process Control Technology & MECH 2441 Introduction to Totally Integrated Automation)

Prerequisite: MECH 1320 and college level math

MECH 2440 Process Control Technology

This course is a study of the Process Control technologies associated with a complex mechatronics system. Topics covered will include the Closed Loop Control; interaction between controllers, sensors and actuators; controller operating parameters; PID controllers; ON/OFF and PID controllers; and the differences between controllers typically used in mechatronic systems. The analysis of plant documentation and manuals, the creation and interpretation of charts with diagrams for time-based changes of measured values will also be covered

Prerequisites: MECH 2440, MECH 2441, MECH 2480 and college level math;

MECH 2441 Introduction to Totally Integrated Automation

Prerequisite: MECH 1340; Corequisite: college level math

This course is an introduction to Totally Integrated Automation. Topics covered will include the automation pyramid, analogue sensors and actuators, STEP 7 functions, MPI-Bus and PROFIBUS systems, and systems maintenance and troubleshooting. Not part of a TN Transfer Pathway

MECHATRONICS 6

Prerequisite: MECH 2440, MECH 2441, MECH 2480 and college level math; Corequisite: MECH 2425.

MECH CNC Manufacturing with MECH 2490 Manufacturing Applications (Capstone Course)

This course is a study of manufacturing improvement processes in a mechatronics system using the automation system for real world application. Topics covered will include basic statistics for improvement, manufacturing teams, process waste, OEE, process capability, continual improvement, fishbone diagrams, kaizen activities, TPM, and basic time study methods. Emphasis is using a team project with final presentation to apply improvement methods in real-world application.

Jonathan Ingram

CARPENTRY INSTRUCTOR
SKILLS USA ADVISOR

R&C CONSTRUCTION

RESIDENTIAL & COMMERCIAL CONSTRUCTIONS

LEVEL I	LEVEL 2	LEVEL 3	LEVEL 4
Fundamentals of Construction (C17H15)	Residential & Commercial Construction I (C17H24)	**DE: TCAT Building Level 1** (C17H01DE) **DE: TCAT Building Level 2** (C17H31DE)	Construction Practicum **SUMMER ONLY** (C17H22)) **DE: TCAT Building Level 3** (C17H33DE) **DE: TCAT Building Level 4** (C17H34DE)
Industry certification: OSHA 10 General Industry	**Industry certification:** NCCER Core Curriculum	**Industry certification:** NCCER Carpentry Levels 1-4 NCCER Electrician Levels -4 NCCER Concrete Finishing Level 1 NCCER Drywall Levels 1-2	**Industry certification:** NCCER Masonry Level 1 NCCER Insulation Level 1 NCCER Plumbing Levels 1-3 NCCER Drywall Levels 1-2 Snap-on Meter Certification Starrett Measurement Level 1 / OSHA 30

Fundamentals of Construction (9-10)

- **Prerequisite: None**
- **Industry Certification Opportunity: OSHA 10**

  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. Safety training for OSHA and EPA requirements, fire safety, and workplace issues are covered thoroughly.

Residential and Commercial Construction I (10-12)

- **Prerequisite: Fundamentals of Construction & Algebra I**
- **Industry Certification Opportunity: NCCER Construction Technology**

  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 skills and knowledge base typically required for apprentice carpenters. Students are strongly encouraged to participate in SkillsUSA.

Construction Practicum (12)

- **Prerequisite: Residential & Commercial Construction II**
- **Offered: Summer only**

  This is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous construction courses within a professional working environment. In addition to developing an understanding of the professional and ethical issues encountered by tradesmen and contractors in the workplace, students learn to refine their skills in problem solving, communication, teamwork, and project management in the completion of an off-site, course-long project.

Building Construction Technology 1-4 / TCAT , Harriman

- **Offered: LCHS Campus, Fall & Spring Semesters**

  The Building Construction Technology Program is designed to prepare students for employment in the electrical, plumbing, roofing, construction and/or remodeling fields. Skills taught in the course include safety, general building concepts, masonry, framing, roofing, plumbing, wiring techniques and installation, National Electric Codes, blueprint reading, and finishing. The student will receive theory and skill practice in the classroom and lab as well as be required to build on site completing the hands-on skill portion of his/her training.

  Building Construction Technology Level 1 (1 credit)
  Building Construction Technology Level 2 (1 credit)
  Building Construction Technology Level 3 (1 credit)
  Building Construction Technology Level 4 (1 credit)

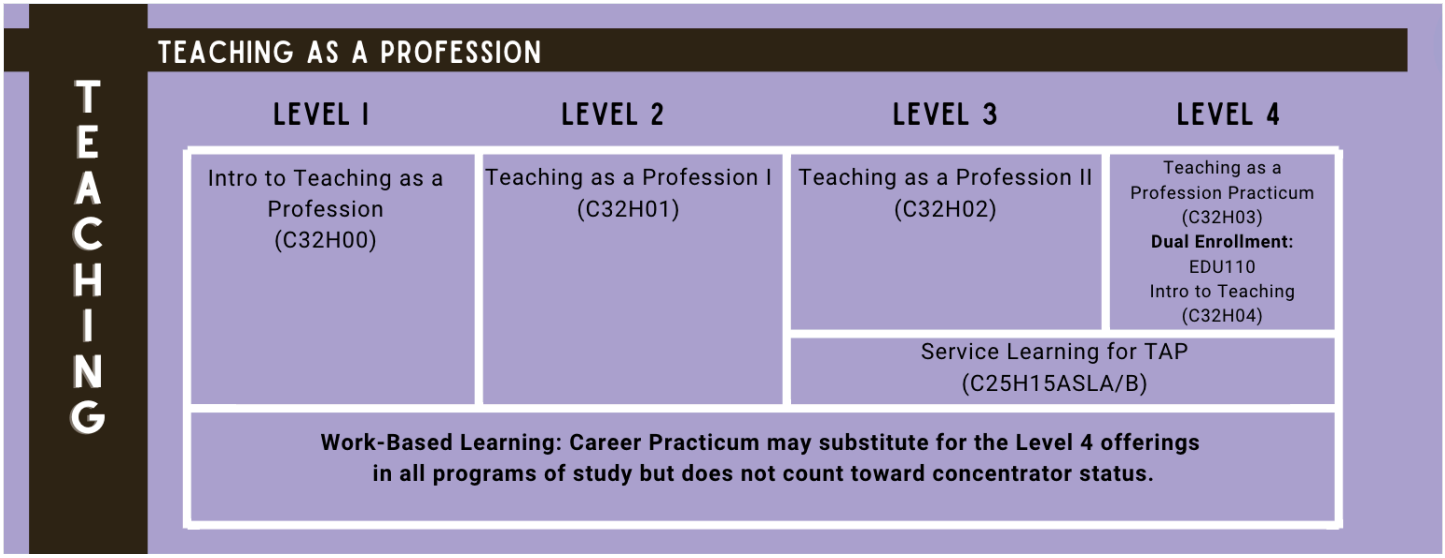
  For details about Dual Enrollment Building Construction Technology through TCAT, Harriman, click the link: Building Construction Technology

Dr. Joshua Johnston

ENGLISH INSTRUCTOR
TEACHING AS A PROFESSION/
THEATER

Kellye Renker

ENGLISH INSTRUCTOR
TEACHING AS A PROFESSION



Introduction to Teaching as a Profession (9-12)

- **Prerequisite: None**

  Introduction to Teaching as a Profession is a foundational course in the Teaching as a Profession program of study for students interested in learning more about becoming a teacher, school counselor, trainer, librarian, or speech-language pathologist. Upon completion of this course, proficient students will gain knowledge in the history of education in the United States, careers in education, and the influence of human development on learning. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses.

Teaching as a Profession I (9-12)

- **Prerequisite: Level 1 of Teaching as a Profession Pathway**

  Teaching as a Profession I (TAP I) is an intermediate course for students interested in learning more about becoming a teacher, school counselor, trainer, librarian, or speech-language pathologist. This course covers the components of instruction, teaching strategies, types of assessments, student learning, special populations, and educational technology. Students will conduct observations of educators at work and create artifacts for a course portfolio, which will continue with them throughout the program of study. Upon completion of this course, proficient students will have a fundamental understanding of instructional strategies needed for becoming an educator.

Teaching as a Profession II (9-12)

- **Prerequisite: Teaching as a Profession I**

  Teaching as a Profession II (TAP II) is an applied-knowledge course for students interested in learning more about becoming a teacher, school counselor, trainer, librarian, or speech-language pathologist. This course covers classroom management, concepts of higher order thinking, differentiating instruction, and strategies of effective classroom planning. Students in this course will demonstrate their skills in laboratory settings while building a course portfolio of work, which will carry with them throughout the program of study. Upon completion of this course, proficient students will be prepared to take the capstone TAP III course and further their studies at the postsecondary level.

Intro to Teaching DE (11-12)

- **Prerequisite: Levels 1-3 of Teaching as a Profession pathway**
- **Course Type: Dual Enrollment through Tennessee Wesleyan University**
- **Offered: Fall, Spring**

  Introduction to Teaching is a Dual Enrollment class taught through TN Wesleyan University and is required of all students seeking teacher licensure. This course is designed to provide entry-level experiences into the work of the schools, the role of the teacher, and the school environment. Students will study the teaching profession itself and its influences, including political and legal aspects, as well as historical and sociological factors. Students will examine how these factors have shaped, and continue to shape, American education. Students will also study national and state curriculum development in grades K-12 and study curriculum implementation in real classroom settings. Field experience will consist of 20 hours in local public schools. An observational/reflection journal will be documented and maintained by the student.

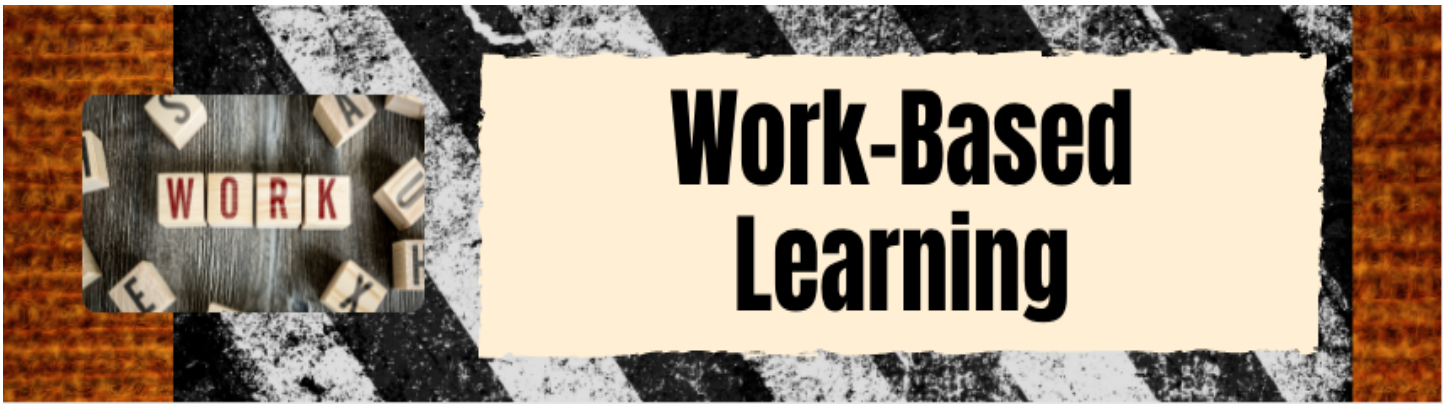
Teaching as a Profession Practicum (12)

- **Prerequisites: Levels 1-3 of Teaching as a Profession pathway**

  Teaching as a Profession (TAP) Practicum is a capstone course in the Education and Training career cluster for students interested in applying the knowledge and skills learned in previous courses toward becoming a teacher, school counselor, trainer, librarian, or speech-language pathologist. The course covers classroom professionalism, ethics, policies, communications, and career requirements in education and training fields. In addition, students will complete an internship and continue to create artifacts for their student portfolios. Upon completion of this course, proficient students will be prepared to pursue advanced training at a postsecondary institution.

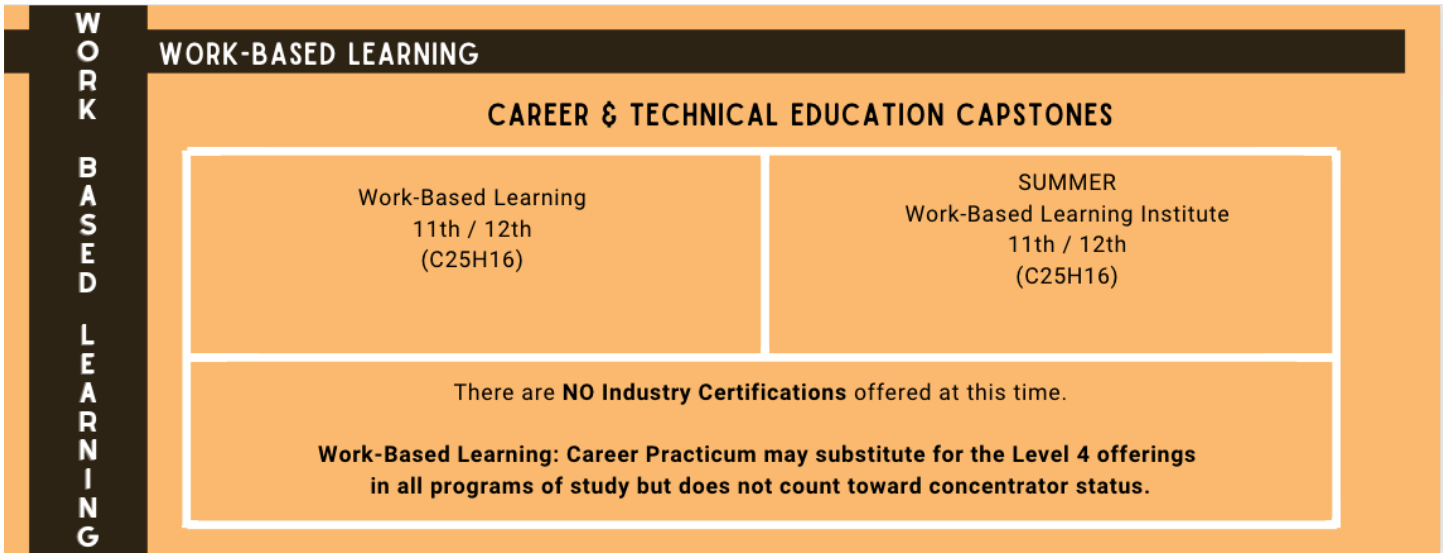
Service Learning for TAP (11-12)

- **Prerequisites: GPA of 2.7 or higher; teacher recommendation; no in-school suspensions; acceptable attendance and discipline**
  This class serves students who are participating in Teaching as a Profession. It consists of field experiences at Lenoir City Elementary School. Students will get to apply classroom knowledge from TAP courses. This class is for students who possess strong leadership skills, demonstrate maturity and strong character, and have a strong desire to pursue teaching as a career.



Chris Pickell

WORK-BASED LEARNING COORDINATOR
BUSINESS MANAGEMENT INSTRUCTOR
ASSIST. BOYS SOCCER COACH
HEAD GIRLS SOCCER COACH



Work-Based Learning (11-12)

- **Prerequisite: At least 2 course in one of the CTE pathways**
- **Enrollment: Students must complete an application which is located in the CTE building.**
- **Offered all blocks of the d**

Work-Based Learning (WBL) is a proactive approach to bridging the gap between high school and post-secondary opportunities. Students build on classroom-based instruction to develop employability skills that prepare them for success in future endeavors. Through experiences

like internships and cooperative education, juniors and seniors at least 16 years of age may earn high school credit for capstone WBL experiences. Students may also opt for an SBE (School Based Enterprise), as an opportunity to work with their teacher instead of peer tutoring. WBL students are required to maintain 90% school attendance to remain in the WBL Program and is offered all blocks of the school-day.

Summer Work-Based Learning Institute (11-12)

- **Prerequisite: At least 2 course in one of the CTE pathways**
- **Enrollment: Students must complete an application which is located in the CTE building.**

The Summer Work-Based Learning Institute is an internship that directly aligns with your focus area. Lenoir City High School CTE department will secure these placements for our students. These internships are for upcoming seniors who are at least 16 years of age, have completed the application process, satisfied all requirements, have been interviewed, and have been accepted into the Summer WBL Institute. Students will commit to a 3 or 4-week internship that will take place in the month of June. Students will receive 1 credit upon completion of this summer internship opportunity.

Course Descriptions for other TCAT options

Diesel Mechanics DE 1-4 (11-12)

- **Prerequisite: Teacher recommendation; 11th or 12th grade ONLY; 2 or more courses in one of the following CTE pathways: Agricultural Engineering & Applied Technologies, Mechatronics, Residential & Commercial Construction or Engineering**
- **Course Type: Dual Enrollment through Tennessee College of Applied Technology (TCAT), Harriman**
- **Location: Loudon County Technology Center / Monday - Thursday 12:15 - 3:15 pm**

The Diesel Powered Equipment Technology program provides practical experience in the repair and maintenance of diesel powered equipment. Students receive instruction in troubleshooting, engine analysis, disassembling engines, replacing defective parts, reassembling, etc, to enable students to enter employment in truck, construction, agricultural equipment, and other related fields as technicians. Students admitted to the Diesel Powered Equipment Technology program must have a valid driver's license prior to admission.

Diesel Mechanics Level 1&2 (2 credits)
Diesel Mechanics Level 3&4 (2 credits)

Welding DE 1-4 (11-12)

- **Prerequisite: Teacher recommendation; 11th or 12th grade ONLY; 2 or more courses in one of the following CTE pathways: Agricultural Engineering & Applied Technologies, Mechatronics, Residential & Commercial Construction or Engineering**
- **Course Type: Dual Enrollment through Tennessee College of Applied Technology (TCAT), Harriman**
- **Location: Loudon County Technology Center / Monday - Thursday 12:15 - 3:15 pm**

Dual-Enrollment Welding is designed to provide students with the skills and knowledge to effectively perform cutting and welding applications used in the advanced manufacturing industry. Course competencies will include fundamental safety practices, interpretation of drawings, creation of computer-aided drawings, identification and use of joint designs, efficient fabrication lay-out, basic shielded metal arc welding (SMAW), identification of mechanical and thermal properties of metals, and quality control.

Welding Level 1&2 (C13H03DE & C13H18DE) (2 credits)

Welding Level 3&4 (C13H26DE & C13H27DE) (2 credits)

Residential Commercial and Industrial Electricity DE 1-4 (11-12)

- **Prerequisite: Teacher recommendation; 11th or 12th grade ONLY; 2 or more courses in one of the following CTE pathways: Agricultural Engineering & Applied Technologies, Mechatronics, Residential & Commercial Construction or Engineering**
- **Course Type: Dual Enrollment through Tennessee College of Applied Technology (TCAT), Harriman**
- **Location: Loudon County Technology Center / Monday - Thursday 12:15 - 3:15 pm**

The mission of the Residential/Commercial/Industrial Electricity program is to prepare the student for employment opportunities in the electrical installation and/or industrial electricity fields. Skills taught in this program include: safety, electricity concepts, trouble-shooting, wiring techniques, installation, National Electrical Codes (NEC), blue-print reading, service calculations, single phase, 3 phase, motor control, variable frequency, industrrial automation, electric power generation, alternative energy, and energy management.

Cosmetology DE 1-4 (10-12)

The instruction provided in the Cosmetology Program is designed to qualify students for employment upon graduation and to aid in the passing of the State Exam. Licensing is required for individuals to be employed as cosmetologists or nail technicians in the State of Tennessee. Skills taught in this program include: the care and beautification of hair, complexion, hands and feet. The course of study includes hands-on and classroom instruction. Safety and customer relations are also emphasized throughout the program. This will now have an on-campus option in the 2023-2024.

Cosmetology Level 1&2 (C19H04DE & C19H23DE) (2 credits)
Cosmetology Level 3&4 (C19H27DE & C19H28DE) (2 credits)

CTE PROGRAMS OF STUDY

MUST TAKE IN SEQUENCE

❖ Agriculture, Food, and Natural Resources

➢ Veterinary and Animal Science

- C18H19 Agriscience (9-10)
- C18H20 Small Animal Science Technologies (10-11)
- C18H27 Large Animal Science Technologies(10-12)
- C18H21 Vet Science Technologies (11-12)
- C18H01DE (DE) Introduction to Animal Science (online) (12)

➢ Environmental and Natural Resource Management Pathway

- C18H19 Agriscience (9-10)
- C18H25 Ag Environmental Science (10-11)
- C18H15 Plant and Soil Science (11-12)
- C18H28 Natural Resource Management (11-12)

➢ Agricultural Engineering, Industrial, and Mechanical Systems Pathway

- C18H19 Agriscience (9-10)
- C18H12 Principles of Agricultural Mechanics (11-12)
- C18H13 Agricultural Power and Equipment (11-12)
- C18H42 Agricultural Fabrication and Biosystems Engineering

❖ Arts, A/V Technology & Communications

➢ Digital Arts & Design

- C11H06 Digital Arts & Design I (9-10)
- C11H05 Digital Arts & Design II **OR**
- G01H15A Digital Arts & Design II - Yearbook/Video (10-11)
- C11H16 Digital Arts & Design III **OR**
- G01H15B Digital Arts & Design III - Yearbook/Video (10-12)
- C25H16 Work-Based Learning

➢ Audio Visual Production

- C11H01 A/V Production 1 (9-12)
- C11H02 A/V Production II (9-12)
- C11H03 A/V Production III (10-12)
- C25H16 Work-Based Learning

❖ Business Management & Administration

➢ Business Management & Administration

- C12H26 Intro to Business & Marketing
- C12H16 Business Communications
- C12H44SDC State-wide Dual Credit: Intro to Business
- C12H35 Work-based Learning/School Based Enterprise

❖ Criminal Justice and Corrections Services

- ➢ Criminal Justice and Corrections Services
  - C30H00 Criminal Justice I (9-10)
  - C30H01 Criminal Justice II (10-12)
  - C30H11SDC State-wide Dual Credit: Criminal Justice (11-12)
  - C30H20DE (DE) Introduction to Corrections (11-12)
  - C30H03 Criminal Justice Practicum (11-12)

❖ Culinary Arts

- ➢ Culinary Arts
  - C16H06 Culinary Arts I (9-11)
  - C16H07 Culinary Arts II (10-12)
  - C16H08 Culinary Arts III (11-12)
  - C16H09 Culinary Arts IV (12)

❖ Engineering

- ➢ Engineering
  - C21H04 Principles of Engineering & Technology (9-10)
  - C21H05 Engineering Design I (10-12)
  - G02H93APW AP Computer Science Applications
  - C21H06 Engineering Design II (10-12)
  - C21H14 Engineering Practicum (11-12)

❖ Health Science

- ➢ Diagnostic Services
  - C14H14 Health Science Education (9-10)
  - C14H12 Honors Diagnostic Medicine (10-12)
  - C14H09 Honors Anatomy & Physiology (11-12)
  - C14H11 Honors Clinical Internship (11-12)

- ➢ Therapeutic Services
  - C14H14 Health Science Education (9-10)
  - C14H15 Honors Medical Therapeutics (10-12)
  - C14H10 Medical Assistant (10-11)
  - C14H09 Honors Anatomy & Physiology (11-12)
  - C14H11 Honors Clinical Internship (11-12)

- ➢ Nursing Services
  - C14H14 Health Science Education (9-10)
  - C14H15 Honors Medical Therapeutics (10-12)
  - C14H09 Honors Anatomy & Physiology (11-12)
  - C14H16 Nursing Education (11-12)
  - C14H11 Honors Clinical Internship (11-12)
  - C14H03 (DE) Practical Nursing TCAT (11-12)

- ➢ Emergency Services
  - C14H14 Health Science Education (9-10)
  - C14H15 Honors Medical Therapeutics (10-12)
  - C14H09 Honors Anatomy & Physiology (10-12)
  - C14H11 Honors Clinical Internship (11-12)
  - C14H04 (DE) Emergency Medical Services (11-12)

❖ Heating, Ventilation, Air Conditioning, and Refrigeration

- ➢ HVAC

- C17H152 Beginning HVAC
- C17H23 Intermediate HVAC
- C17H03DE HVAC I
- C17H30DE HVAC II
- C17H39DE HVAC III
- C17H40DE HVAC IV

❖ Information Technology

➢ Computer Science

- G02H44 AP Computer Science Principles
- C10H14 Coding I

❖ Mechatronics

➢ Mechatronics

- C21H04 Principles of Engineering Technology (10-11)
- C13H07 Honors Digital Electronics (10)
- 6C13H04DE Mech 1 (DE) Electrical Components & Digital Fundamentals and PLCs (11)
- 6C13H21DE Mech 2 (DE) Pneumatic & Hydraulic Control & Mechanical Components & Electrical Circuits
- 6C13H36DE Mech 3 (DE) Solidworks I & Motor Controls
- 6C13H37DE Mech 4 (DE) Automation Systems & Innovative Production & Problem Solving (12)
- 6C13H24DE Mech 5 (DE) 2440 Process Control Technology with Mech 2441 Introduction to Totally integrated Automation
- (TBA) Mech 6 (DE) CNC Manufacturing with Mech 2490 Manufacturing Applications (Capstone)

❖ Residential & Commercial Construction

➢ Residential and Commercial Construction

- C17H15 Fundamentals of Construction (9-10)
- C17H24 Residential and Commercial Construction I (10-12)
- C17H01DE DE: TCAT Building Construction Technology 1
- C17H31DE DE: TCAT Building Construction Technology 2
- C17H33DE DE: TCAT Building Construction Technology 3
- C17H34DE DE: TCAT Building Construction Technology 4
- C17H22 Construction Practicum (12)

❖ Teaching as a Profession

➢ Teaching as a Profession

- C32H33 Introduction to Teaching as a Profession (9-12)
- C32H01 Teaching as a Profession I (9-12)
- C32H02 Teaching as a Profession II (9-12)
- C25H15ASLA/B Service Learning for TAP (Teaching as a Profession)
- C32H04 (DE) Intro to Teaching: TN Wesleyan University

Extra-Curricular Sports & Activities

Team	Coach	Team	Coach
Boys Basketball	Josh Brannon	Girls Basketball	Brad Cochran
Boys Baseball	Aaron Simmons	Girls Softball	Matthew Helton
Boys Soccer	Santiago Correa	Girls Soccer	Chris Pickell
Boys Golf	Adrian Pearce	Girls Golf	Adrian Pearce
Boys Track & Field	Jeff Kuhl	Girls Track & Field	Jeff Kuhl
Cross Country	Jeff Kuhl	Football	Gary Duggar
Volleyball	Rebekah Whipple	Tennis	Mary Burns
Cheerleading	Brittany McDonald	Swimming	Mel Everett

Clubs & Organizations

Club	Sponsor
Anchor Club	Susanne Tyler
Bass Club	Terry Snoblin
Chess Club	Christina Mullinax
DECA	Dylan Brewster / Chris Pickell
Diversity Club	Jesse Harris
Drama Club	Joshua Johnston
FCA	Brad Cochran / Dylan Brewster
FFA	Josey Miller / Jessica Rose
Guitar Club	Keith Garrett
HOSA	Aubrey Lambdin / Jennifer Kuth / Jennifer McCombs-Cleveland
Interact Club	Monty Ross (Rotary)
Leader Academy	
Mu Alpha Theta	Lynlee Sims / Stephanie Guth
National Honor Society	Kristen Bickerstaff
Pep Club	Angela Crabtree / Christina Mullinax
P3 (Positive Peer Pressure)	Susanne Tyler
Science Bowl	
Science Olympiad	Steven Code
SkillsUSA	Jimmy Yoakum / Brant Thomas / Kevin Smith / Chrystal Wallace / Jonathan Ingram / Steven Code
Spanish Club	Maria Rios/Santiago Correa
Special Olympics	Melody Henderson
Strategy Game	Joshua Johnston
Student Ambassadors	
Student Council	Jessica Rose / Katelyn Hanley
Tri-M	Jordan Cross / Zachary Slimp
Walking Club	Melissa Guider / Debbie Werner
World Culture Club	Maria Rios
Young Environmentalists	Andy Kerr