
TULLAHOMA
VIRTUAL ACADEMY



Tullahoma Virtual Academy
TVA 2023-24
Course Catalog

Tullahoma Virtual Academy
301 West Decherd Street
Tullahoma, TN 37388
Phone 931.454.2638
www.tva.tcsedu.net



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Mr. Mike Young, Career and Graduation Coach

Mrs. Cindy Young, School Counselor

Mrs. Jessie Kinsey, CTE Director

Coach John Olive, Athletic Director



TULLAHOMA VIRTUAL ACADEMY
2023-2024 PROGRAM PLANNING AND REGISTRATION
www.tva.tcsedu.net

Registration for courses at Tullahoma Virtual Academy is an important part of the planning process to help students meet their educational and career goals. At Tullahoma Virtual Academy, students and their parents work with school counselors to develop a student's educational program and course requests. The role of participants include:

Student: Obtains planning materials and registration form from the counselor during their scheduled advisory time; gives careful consideration to course choices (in terms of offerings available, student abilities, grades, interests, graduation requirements, and future plans); consults parents and school staff members for advice on choices of courses to request; assumes initiative for getting recommendation forms signed for courses requiring them; ensures that course prerequisites are completed; completes the registration process online through Skyward on the date scheduled for their specific advisory group.

Parent: Reviews planning materials including path and course descriptions and assists students in making choices; attends orientation sessions presented by the THS counseling staff designed for both parents and students to assist them in making path and course decisions; and consults subject teacher, counselor, or principal/dean whenever further advice is desired.

Subject Teacher: Approves class rosters to indicate recommendation for honors or AP courses.

Counselors: Provide materials for students and parents to assist them in making path and course decisions; are available to students, parents, and teacher for guidance in making academic and vocational plans, discussing assessment of student background and aptitude, and addressing any particular problem or question needing counselor assistance; review program proposals and course requests for each student within his or her grouping; provide assistance to other counselors and students as needed during the registration process.

Steps in the Registration Process

1. Work with your school counselor, teachers, homeroom advisor, and parents to review your academic record, strengths, and to develop or revise a tentative four-year plan of study based on your goals.
2. Carefully review the requirements of your chosen path.
3. Review the course descriptions in this catalog and choose your desired courses.
4. Use the scheduling guide as an aid in the course request process.
5. Complete a course request in Skyward.

All students choose 8 courses, plus 2 alternates. Alternate choices are very important since we will not be able to fulfill ALL requests due to space limitations. THS reserves the right to place students in courses based upon availability and the requirements of a student's program of study. The student may request a schedule change within three days of receiving the schedule, but should be aware that **changes will be rare**.



Course substitutions may be made by the THS staff based on test results and student performance in order to provide the best preparation and opportunity for students to be college and career ready.

Information for All Students

Advanced Placement Courses offered at THS

Students must sit for the AP exam to receive AP credit for GPA. AP tests cost \$100 each (\$53 for students receiving free or reduced price lunches) and test fees are due at the beginning of the school year. All course work for two semester courses must be completed for course credit. Elective credit is given for one semester where applicable. Please note: Any of these courses are subject to cancellation due to staffing, funding or minimal participant issues. Entrance requirements must be met.

Advanced Placement Courses offered online through TN AP Access for All

Students must adhere to all registration deadlines set forth by the AP Access Coordinator. Students must sit for the AP exam to receive AP credit for GPA. AP tests cost is free for the Niswonger grant. All course work for two semester courses must be completed for course credit. Elective credit is given for one semester where applicable. Please note: Any of these courses are subject to cancellation due to staffing or funding issues. Entrance requirements must be met. For more information: <https://tnapaccessforall.org/>

Athletic Eligibility

To be eligible to participate in athletic contests, a student shall have been academically promoted to the next higher grade. Students must pass six (6) of the eight (8) credits during the previous school year and be enrolled in at least three (3) courses for credit during the semester of their athletic participation to be eligible for athletic participation. Athletic eligibility is determined according to the rules of the Tennessee Secondary School Athletic Association (TSSAA). See the THS Athletic Director if you have questions concerning eligibility for athletics.

NCAA Eligibility:

Students who wish to participate in intercollegiate sports at a NCAA institution must meet all course and testing requirements as set forth by the NCAA and the NCAA Clearinghouse. It is the student's responsibility to ensure that all NCAA (or other governing body) requirements are met. Students should start the clearinghouse process as early as possible. Please see a school counselor if you have questions.

Correspondence/Online Courses

Students must have prior approval from the administration and the School Board if their desire is to earn a THS credit for an online/correspondence course. Please contact a school counselor for additional information.



Course Fees

Course fees, as noted in course descriptions, are necessary to provide educational experiences beyond a basic minimum. Course credit is not contingent on payment of fees.

Credit Recovery

Students who fail a core class at 50% or higher may recover the credit through Edgenuity, an online learning platform. Credit recovery courses can only be approved by school administration and are assigned by school counselors. Progress on assigned credit recovery courses is monitored by school staff.

Diploma Requirements

Students are required to have **26 credits** for graduation at Tullahoma Virtual Academy.

All students will pursue a focused program of study preparing them for postsecondary study. While all students may not enter postsecondary training immediately following high school, they must be prepared for lifelong learning. Students will complete an elective focus of no fewer than three credits. The elective focus may be CTE, science and math, humanities, fine arts, AP, or other areas approved by the local board of education. Students completing a CTE elective focus must complete three units in the same CTE program area of a state-approved program of study.

Students will complete two units of the same world language and one unit of fine arts except in limited circumstances. Students not planning to attend a university may request a waiver, signed by a parent, in order to waive the two units of foreign language and one unit of fine arts. If world languages and arts credits are waived, the student must complete a second program of study to expand and enhance their elective focus.

THS Graduation Course Requirements	
English, 4 credits	English I, II, III, IV
Math, 4 credits	Algebra I, Geometry, Algebra II, 1 higher level math the senior year
Science, 3 credits	Biology, Chemistry or Physics, plus one additional lab science credit
Social Studies, 3 credits	World History, U.S. History, Economics (.5 credit), Government (.5 credit)
Physical Education/Wellness, 1.5 credits	
Fine Arts, 1 credit*	* Students who are sure they are not going to attend a 4-year college or university are exempt from the graduation requirement of 1 credit in Fine Arts. These credits will be replaced with courses designed to enhance and expand the elective program of study/focus of study.
World Languages, 2 credits**	**Students who are sure they are not going to attend a 4-year college or university are exempt from the graduation requirements of 2 credits in Foreign language. These credits will be replaced with courses designed to enhance and expand the elective program of study.
Personal Finance, .5 credits***	***Students must complete the Personal Finance credit (C29H11) for state graduation requirements.
Electives, 4 credits	
Focus of Study, 3 credits	Career and Technical, Fine Arts, Humanities, Math & Science Honors, AP, JROTC, Transition



Diploma Descriptions

Honors Diploma: Students who score at or above all of the subject area readiness benchmarks on the ACT or equivalent score on the SAT will graduate with honors.

Diploma of Distinction: Students will be recognized as graduating with “distinction” by attaining a B average and completing at least one of the following:

- Earn a nationally recognized industry certification
- Participate in at least one of the Governor’s Schools
- Participate in one of the state’s All State musical organizations
- Be selected as a National Merit Finalist or Semifinalist
- Attain a score of 31 or higher composite score on the ACT
- Attain a score of 3 or higher on at least two advanced placement exams (AP scores must be achieved before the senior year.)
- Successfully complete the International Baccalaureate Diploma Program
- Earn 12 or more semester hours of transcript postsecondary credits

Industry 4.0 Diploma Distinction Overview

The Industry 4.0 Diploma Distinction is a diploma distinction that allows students to pursue a career in a high-need, high-skill industry while in high school, as outlined in T.C.A. 49-6-420. The Industry 4.0 Diploma Distinction was developed for high school students interested in pursuing a career in a high-need, high-skill industry after graduation.

Students who earn the Industry 4.0 Diploma Distinction will complete at least nine dual enrollment or work-based learning (WBL) credits aligned with their career goals. They will receive monthly career coaching and counseling to better to prepare them for the transition into the workforce. Additionally, they will have the option to substitute a WBL or dual enrollment credit, as approved by the State Board of Education, for one math credit and one science credit.

Industry 4.0 Diploma Distinction Student and Parent Requirements

Students interested in pursuing an Industry 4.0 Diploma Distinction must provide the counselor or school principal with documentation signed by the student’s parent or legal guardian indicating that the parent or legal guardian is aware of the requirements for the student to obtain the diploma distinction and consenting to the student’s participation. Students must also register with a regional American Job Center (AJC) or other career counseling or community partner, known as a career coach, and enroll in at least one WBL or dual enrollment course for the student’s junior year.

Tulahoma City Schools has a work-based learning coordinator, high school counselors, and a career coach available to serve as the career coach for these students.

Students must meet with their career coach no less than once per month during the school year to help the student develop the personal attributes required for success in the workforce, assist the student in applying for dual enrollment grants and other available financial aid opportunities, identify the best combination of dual enrollment and WBL courses, and help the student prepare for standardized assessments. A combination of stakeholders who meet the career coach requirements may collaboratively provide these services to students.



Industry 4.0 Diploma Distinction Grade 11 Student Requirements

The student must be enrolled in at least one WBL or dual enrollment course and enroll in WBL or dual enrollment courses for the student's senior year. The student must also meet no less than once per month during the school year with a career coach.

Industry 4.0 Diploma Distinction Grade 12 Student Requirements

The student must successfully complete all coursework required for graduation for his/her diploma type. Students may earn at least one science credit and at least one math credit through course substitutions approved by the State Board of Education, including, but not limited to, dual enrollment and WBL courses aligned to a student's chosen career path. These substitutions may only fulfill the student's third credit of science or fourth credit of math. A list of WBL and dual enrollment courses that qualify as science and math substitutions will be published upon State Board of Education approval. By the end of the student's senior year, the student must earn at least nine credits of dual enrollment or WBL, meet no less than once monthly during the school year with a career coach, and fulfill all other graduation requirements to earn the Industry 4.0 Diploma Distinction.

Occupational Diploma: Available to students who have a disability and meet additional qualifications. This diploma has a strong vocational and career outcome focus. Students that pursue this path will complete the Skill, Knowledge, and Experience Mastery Assessment (SKEMA) as well as two years of paid or non-paid work experience during high school. The determination to work toward an occupational diploma must be made by the 10th grade year.

Alternate Academic Diploma: Beginning with the graduating class of 2022, the AAD is available to students who have a disability and meet additional qualifications. This diploma offers students a comprehensive, integrated educational experience that includes academics and life skills. The course requirements for the AAD blend academic standards, alternate assessment targets, and the skills for successful postsecondary outcomes, including life skills.

Special Education Diploma: Students must successfully complete an Individualized Education Program (IEP) and have a satisfactory record of attendance and conduct. Students can continue receiving services through an IEP until they receive a regular education diploma or at age 22.

Grade Level Classification

Grade level classification is determined by year entering high school:

9 th Grade	Year 1
10 th Grade	Year 2
11 th Grade	Year 3
12 th Grade	Year 4 and beyond



Grading Scale

Tennessee Hope/Lottery Scholarship will be determined based on the student's final unweighted GPA. Listed below are the quality points which will be utilized in calculating a student's grade point average.

Grading Scale

A	=	90 – 100
B	=	80 – 89
C	=	70 – 79
D	=	60 – 69
F	=	Below 60

G.P.A. Quality Points

Grade		Honors Courses	Advanced Placement, Statewide Dual Credit, and College Dual Enrollment Courses
A	4	4.5	5.0
B	3	3.5	4.0
C	2	2.5	3.0
D	1	1.5	2.0
F	0	0.0	0.0

Dual Enrollment

Motlow State Community College Dual Enrollment, Tennessee College of Applied Technologies (TCAT), and MTSU programs afford an excellent opportunity to receive post-secondary instruction and credit that also appears on the high school transcript for credit toward high school graduation. Classes are held on the Motlow campus, TCAT-Shelbyville campus, or MTSU campus with a select few classes possibly held on the THS campus. Additionally, some dual enrollment classes may be offered online by the aforementioned schools.

The Tullahoma Virtual Academy counseling office provides assistance with the dual enrollment process. As this involves college/post-secondary courses, the student and parent are accountable for meeting requirements, Hope Scholarship application (if applicable), attendance, and payment necessary for successful completion and credit. A high level of responsibility and maturity are essential to a successful student experience. Due to FERPA privacy laws, Tullahoma High has limited access to information once a student enrolls in a course. Most questions and requests should be directed to the college admissions office.



Dual enrollment is the enrollment of a high school student in one or more specified college courses for which the student will be awarded both high school and college credit. Dual enrollment opportunities are available for students whose high schools have consensual agreements with the college to offer college level courses for which both high school units and college credits are awarded simultaneously. To be eligible for dual enrollment courses, the student must meet the following requirements:

- The high school counselor and the student's parent or guardian must approve the student for joint enrollment by signing the dual/joint enrollment application or by submitting a letter of recommendation to the Director of Admissions and Records at the college.
- The student must meet the college academic requirements for dual enrollment.

When the above conditions have been met, the prospective dual enrollment student must do the following:

- Submit a completed Application for Admission form and non-refundable application fee (if applicable) to the college Office of Admissions and Records. The student must be capable of completing the online application with little assistance from THS personnel.
- Parent/Student/Admin consent form must be on file prior to registration

Courses taken must be chosen by the student in consultation with his/her high school counselor and a college advisor in order to supplement, and not overlap, the total high school program. Such courses will not necessarily count toward the high school diploma, and they will not count as part of entrance requirements for regular admission to college. **Students should give careful consideration to taking a dual enrollment course because it requires a total commitment. Students may not drop a college course once the THS semester begins. The THS administration will only consider approval of a dropped course under extreme emergency situations. Non-completion of a course, lack of fee payment or discontinuing attendance will be reported on the high school transcript as an "F" for the course.**

TN Dual Enrollment Grant

The Dual Enrollment Grant program is defined as a grant for study at an eligible postsecondary institution that is funded from net proceeds of the state lottery and awarded to students who are attending an eligible high school and who are also enrolled in college courses at eligible postsecondary institutions for which they will receive college credit. For more information or to apply, visit <https://www.tn.gov/collegepays/money-for-college/tn-education-lottery-programs/dual-enrollment-grant.html>

Local Dual Credit (LDC)

Local dual credit is a high school course aligned to a local post secondary institution's course and exam. THS has Local Dual Credit agreements with MTSU, Motlow and TCAT Shelbyville. Students attend the class as part of their regular THS schedule, then take an exam at the end of the course to earn credit. Students who pass the end-of-course exams administered by MTSU,



Motlow or TCAT earn credits that are accepted and/or recognized by MTSU, Motlow and TCAT. Opportunities for local dual credit are noted in the course descriptions.

Statewide Dual Credit (SDC)

State-Wide Dual credit is a high school course aligned to a local post-secondary institution's course and the TN SDC exam. Students who pass the SDC exam earn credits that are accepted and/or recognized by TN state post-secondary institutions. Courses are taught by licensed high school teachers or certified college instructors approved by the school system and the postsecondary institution.

Repeated Courses

All courses attempted and grades earned are computed in the GPA and recorded on the transcript.

Senior Ranking

According to School Board Policy, ranking of senior students for local honors and class rank will be made after the first semester grades of the senior year are posted for graduation and diploma purposes. Final GPA and ranking, including all coursework attempted, will be placed on transcripts after graduation.

Special Education

Special Education programs and related services are available to all THS students who have been identified as meeting federal and state eligibility criteria and for which IEP teams have determined the student's needs cannot be met in the regular program without special education intervention.

Other educational programs include the Section 504 program for students with health-impaired diagnosis. Parents who suspect their child requires the 504 program should contact Dr. Renee Flowers, (931.454.2620), the 504 Coordinator for THS. Dr. Shannon Duncan (931.454.2600) is the school system 504 Coordinator.

These students may qualify for extended time and special testing for the ACT, SAT, and AP Programs and other special college programs. Also, students may qualify for the same type of special services in college. Eligibility for accommodations for these tests is determined by ACT and College Board; not the local school administering the test.

Student Schedule Changes

Schedule changes, while rare, are sometimes necessary to ensure the student is enrolled in the proper classes. Every effort is made to ensure the accuracy of the schedule before it is given to the student. In the event that the schedule does not have a required course, the student has three days prior to the beginning of the term to complete a schedule change request form (available



online at the THS website) and submit it to the counseling office. A schedule change will be made if the counseling office deems it necessary.

TN Ready Tests

TN Ready tests will be given in English I, English II, Algebra I, Geometry, Algebra II, U.S. History, and Biology. The results of these examinations will be factored into the student's grade at a percentage determined by the State Board of Education in accordance with T.C.A. §49-1-302 (2). **Per state law (T.C.A. § 49-6-408), seniors will also be required to take the ACT exam and to pass a civics test in order to graduate.**

Valedictorian and Salutatorian

The selection of students ranking number 1 and 2 will be done after the first semester grades are posted, including any Independent Studies courses, if applicable. To become valedictorian or salutatorian, a student must be enrolled in Tullahoma Virtual Academy at least four (4) of the seven (7) semesters preceding the final semester. All grades earned in grades 9 through the first semester of grade 12 (plus Independent Studies) will be counted toward the grade point average and the rank in class. The final semester **will not** be used in determining class standing for local school honors and for final class standing. The final GPA will, however, be placed on the final transcript.

Students must select a Program of Study and complete at least three sequential courses within that Program of Study

Program of Study: Dual Enrollment <i>Complete at least 3 courses.</i>	
Dual Enrollment: <i>Complete at least 3 courses</i>	Any three dual enrollment courses taken outside of required credits

Program of Study: Advanced Placement <i>Complete at least 3 courses.</i>						
Advanced Placement: <i>Complete at least 3 courses outside of required credits.</i>	AP Biology: G03H10A G03H10B AP Chemistry G03H16A G03H16B	AP Calculus: AB— G02H24 A&B AP Calculus: BC – G02H25 B & C	AP Computer Science Principles A/B G02H44A G02H44B	AP English: Language & Composition – G01H17A/ G01H17B AP English: Literature & Composition – G01H18A/G01H18B	AP Macroeconomics – G04H25 AP Microeconomics – G04H24 AP U.S. History – G04H21A/G04H21B AP Psychology - G04H28A/G04H28B	



Program of Study: Fine Arts Complete at least 3 courses within <i>one</i> focus area.				
Instrumental Music (Band)	Fall Semester: Band I-IV – Marching Band – G05H81M to G05H84M Band II -IV– Marching Band Honors– G05H82MH to G05H84MH Band –Color Guard		Spring Semester Classes: Band I – Concert Band– G05H85C Band II-IV-Concert Band-G05H86C to G05H88C Band II-III – Symphonic Band – G05H86S to G05H88S Band III – Symphonic Band Honors– G05H86SH to G05H88SH	
Theatre Arts	Theatre I-Intro – G05H16	Theatre II - Acting G05H17A Theatre II - Stagecraft G05H17S	Theatre III - Acting H G05H18AH Theatre III - Stagecraft H G05H18SH	Theatre IV H- G05H19H
Visual Arts	Visual Art I – G05H08	Visual Art II – G05H09	Visual Art III – G05H10	Visual Art III – H – G05H10H
Vocal Music	Concert Choir I-IV G05HA1CF /G05HA4CS	THS Chamber Singers I-III– G05HA1F to G05HA4S THS Chamber Singers I-Honors-III-Honors– G05HA2FH to G05HA4SH Women’s Choir - G05H97WCF (Fall) G05H97WCS (Spring)		

Program of Study: Humanities Complete at least 3 courses.						
Humanities Complete at least 3.	Contemporary Issues – G04H17	Economics – Macro – G04H13	Journalism – Yearbook – G01H15A, G05H15B	Psychology – G04H15	Sociology – G04H14	Work-Based Learning Practicum (Yearbook) – G25H29YB A G25H29YB B

Program of Study: JROTC Complete at least 3 courses.				
Marine Corps JROTC Complete at least 3.	LE I – G08H04 A/B	LE II – G08H05AH, G08H05BH,G08H05A,G08H05B	LE III – G08H06AH, G08H06BH, G08H06A, G08H06B	LE IV – G08H07AH, G08H07BH, G08H07A, G08H07B



Program of Study: Science Honors <i>Complete at least 3 courses.</i>	
Science Honors <i>Complete at least 3 courses beyond the three science courses required for a diploma.</i>	<u>Science Honors Courses</u> Biology I Honors – G03H03H Chemistry I Honors – G03H12H Environmental Science Honors – G03H33H Physics I Honors – G03H20H Anatomy and Physiology Honors --G03H31H STEM I Honors - C21H15H

Program of Study: Transition Work-Based Learning (SpecEd) <i>Complete at least 3 courses.</i>				
Work-Based Learning (SpecEd) <i>Complete at least 3.</i>	Transition IA/B – S25X28T1A/B	Transition IIA/B – S25H03T2A/B	Transition IIIA/B – S25H04T3A/B	Work Based Learning Career Practicum – G25H29F, G25H29S

Program of Study: Career Technical Education (CTE) <i>Complete at least 3 sequential courses within one focus area.</i>				
Advance STEM Applications	STEM I: Foundations Honors –C21H15H	STEM II: Applications C21H16H	AP Computer Science Principles A/B G02H44A/G02H44B	Work-Based Learning Career Practicum – G25H29F/S
A/V Production (Broadcast Media)	Broadcast I- C11H01	Broadcast II- C11H02	Broadcast III- C11H03	Work-Based Learning Broadcast Practicum – C11H25BMF/S
Aviation Flight	Intro to Aerospace- C20H15	Aviation I-Principles of Flight C20H16 Aviation Maintenance Technology I Y20H20	Aviation II-Advanced Flight C20H18H Aviation Maintenance Technology II Y20H21	Dual Enrollment TCAT Aviation Maintenance C20H04TCF/C20H04TCS Work-Based Learning Aviation Practicum – C20H36F/S
Business Accounting	Introduction to Business & Marketing – C12H26,	Accounting I – C29H00	Accounting II – C29H01H	Work-Based Learning Accounting Practicum – C25H16F/S
Business Management	Introduction to Business & Marketing – C12H26	Business Communications - C12H16 Accounting I - C29H00	Business Management – C12H17 SDC Intro to Business- C12H44	Work-Based Learning Business Management Practicum – C25H27F/S
Architectural Engineering CAD (computer-assisted drawing)	Architectural & Engineering Design I – C17H13	Architectural & Engineering Design II – C17H14	Architectural & Engineering Design III A/B Honors – C17H10AH, C17H10BH	Work-Based Learning Architectural & Engineering Design Practicum –C17H45F/S
Computer Coding	Coding Foundations – C10H11	Coding I – C10H14	Coding II – C10H15 AP Computer Science Principles A/B G02H44A/G02H44B	Work-Based Learning Coding Practicum – C10H40F/S



Cosmetology	Cosmetology I – C19H12	Cosmetology II – C19H14A, C19H14B	Cosmetology III C19H13A, C19H13B	Work-Based Learning Cosmetology Practicum - C19H35F/S
Criminal Justice	Criminal Justice I – C30H00	Criminal Justice II – C30H01	Criminal Justice III– C30H02	Work-Based Learning Criminal Justice Practicum – C30H27F/S
Digital Arts	Digital Arts & Design I – C11H06	Digital Arts & Design II – C11H05	Digital Arts & Design III – C11H16	Work-Based Learning Digi Arts Practicum – C11H26WF/WS
Health Services, Nursing	Health Science Education – C14H14	Medical Therapeutics – C14H15	Anatomy and Physiology - G03H31 Honors - G03H31H	Clinical Internship – C14H11 Certified Nursing Aide (CNA) – C14H16
Leadership in Government	LE I – G08H04A/B (ROTC)	LE II – G08H05AH, G08H05BH, G08H05A, G08H05B (ROTC)	LE III –G08H06AH, G08H06BH G08H06A, G08H06B Pre Law I- C30H08 or U.S. Government and Civics G04H12, G04H12H	LE IV –G08H07AH, G08H07BH, G08H07A, G08H07B Work-Based Learning LE Practicum – C15H29F/S
Marketing Management	Introduction to Business & Marketing –C12H26	Marketing & Management I Principles – C31H00	Marketing & Management II Adv Strategies – C31H01	Advertising & Public Relations – C31H03/ Work-Based Learning Marketing Practicum – C31H28F/S
Machining	Principles of Manufacturing – C13H05	Principles of Machining I – C13H09	Principles of Machining II – C13H06 Dual Enrollment TCAT Machining I/II C13H01TC C13H20TC	Manufacturing Practicum – C13H08 Work-Based Learning Machining Practicum – C13H41F/S
Welding	Principles of Manufacturing – C13H05	Welding I – C13H12	Welding II – C13H10 Dual Enrollment TCAT Welding I/II C13H03TC C13H18TC	Manufacturing Practicum – C13H08/ Work-Based Learning Welding Practicum – C13H43F/S



2023-2024 Course Offerings

Course availability is determined by student request.

Note: This is a comprehensive list of courses offered by both TVA and THS. Shaded courses are available online at TVA. Unshaded courses are available to TVA students in-person.

English Language Arts

English I G01H09

Grade: 9

Fees: \$15

Prerequisite: None

Description: This course, designed for both university and technical-path students, provides the student with practice in writing, as well as the study of grammar, vocabulary, and literature. A research project is required. The End of Course Test determines a percentage of each student's grade in the course. *High School 101 Core Course*

English I Honors G01H09H

Grade: 9

Fees: \$15

Prerequisite: At least an 88 average in eighth grade English and/or teacher recommendation.

Description: This advanced course emphasizes vocabulary, grammar, writing, literary analysis, and research skills. **Students who do not maintain a C or above will be placed in English I.* The End of Course Test determines a percentage of each student's grade in the course. *High School 101 Core Course*

English II G01H10

Grade: 10

Fees: \$10

Prerequisite: English I credit

Description: This course emphasizes standards set by the Tennessee Department of Education to prepare students for either university or technical-path reading and writing. The End of Course Test determines a percentage of each student's grade in the course.

English II Honors G01H10H

Grade: 10

Fees: \$15

Prerequisite: An A or B in English I Honors or an A in English I.

Description: This advanced course emphasizes reading, writing, and higher-order thinking skills recommended by The College Board for students with high academic aspirations. The End of Course Test determines a percentage of each student's grade in the course.



English III G01H11

Grade: 11

Fees: \$10

Prerequisite: English II credit

Description: This course is intended to improve competency in oral and written English, using readings in American literature. Emphasis is given to analyzing texts, writing, usage, vocabulary, ACT preparation, and a required research project.

English III Honors G01H11H

Grade: 11

Fees: \$15

Prerequisite: An A or B in English I Honors or an A in English II.

Description: This course is an advanced English course to prepare college-bound students in writing, reading, and critical thinking skills using readings from American literature. The course explores how literature and society affect each other. Composition, vocabulary, ACT/SAT preparation, and a required research project are also included.

English III AP G01H17A/G01H17B

Grade: 11

Fees: \$115 (includes AP test Fee)

Prerequisite: An A or B in English II Honors or an A in English II and summer reading assignment.

Description: This weighted 36-week course is a college level course intended to develop analytical skills in writing, reading, and thinking. Students must complete both semesters to receive AP English credit; completion of only one semester will result in a non-weighted elective credit.

English IV G01H13

Grade: 12

Fees: \$10

Prerequisite: English III credit

Description: English IV consists of a general survey of British literature, composition, the research paper, and the study of selected British novels.

English IV AP G01H18A/G01H18B

Grade: 12

Fees: \$115 (includes AP test fee)

Prerequisite: A **Grade** of no lower than a B in AP or Honors English III and summer reading: *The Things They Carried* by Tim O'Brien, and *No Country for Old Men* by Cormac McCarthy.

Description: Advanced Placement English, a weighted 36-week course, requires intensive reading, writing, and interpretive analysis of British poetry and prose in preparation for the three-hour AP exam.



SDC Fundamentals of Speech and Communication G01H71 (College Course COMM 2025)

Grades: 11-12

Fees: n/a

Prerequisite: GPA of 2.4 or higher. Credit earned in English I and II.

Description: This is a **Statewide Dual Credit Course**. It is a college-level course that prepares students to pass an online final exam and earn college credit while completing a high school elective. This fun, interesting course covers all types of communication, including social media. Students will learn about nonverbal communication, conflict resolution, successful listening, and effective speaking. A Speech and Communication credit is required at all colleges and universities - here's an opportunity to earn this college credit during high school!

Dual Enrollment English Comp I 1010 (Fall class)

Grade: 11 or 12

Prerequisite: See Motlow Catalog

Description: This dual enrollment credit course focuses on essay writing using a variety of expository patterns and emphasizes critical reading and logical thinking. This course can substitute for English III or English IV credit. **This is a Dual Enrollment Course and is planned to be offered on THS campus Fall 2023 pending enrollment numbers.** See Motlow course catalog for more information: http://catalog.mscc.edu/search_advanced.php?catoid=22

Dual Enrollment English Comp II 1020 (Spring class)

Grade: 11 or 12

Prerequisite: See Motlow Catalog

Description: This dual enrollment credit course emphasizes critical thinking, argumentative essay writing, an in-depth extended research project, and a brief introduction to literary criticism. This course can substitute for English IV credit. **This is a Dual Enrollment Course and is planned to be offered on THS campus Spring 2024 pending enrollment numbers.** See Motlow course catalog for more information: http://catalog.mscc.edu/search_advanced.php?catoid=22

Creative Writing G01H00

Grade: 11-12

Prerequisite: Recommendation of an English teacher

Description: Creative writing allows students to explore their literary voices and strengthen their writing skills by creating works of nonfiction, fiction, poetry, and drama. The essence of this course is a writing workshop, which requires students to write, read, and share their work every day. Students will be critiqued, analyzed, and evaluated by their peers and themselves. In addition to studying different genres, students will journal and complete reading assignments outside of class. Each student will work towards compiling a collection of work that includes both polished and in-process pieces. Subject to teacher availability.



Journalism-Yearbook **G01H15A/B – 10th, WBL YBK - C25H16YBA/B 11th & 12th**
Grade: 10 – 12

Prerequisite: Teacher recommendation. Students must apply to this program.

Description: Open to students in grades 10 – 12, based on teacher rating of ability, dependability, willingness to work, writing ability, etc. Duties include taking pictures, preparing layouts, selling advertisements and writing copy for the yearbook. A student should have computer skills. A student may have to work before or after school to meet deadlines. Journalism credit applies.

Fine Arts Course Offerings

MEDIA ART

Media Arts I : **G05H05**

Grade: 9-12

Fee: \$5

Prerequisite: None

Description: This is a foundational visual art course for students who have a passion for art and design that are interested in advancing their skill level in the Media Arts. Students taking this course should have an interest in drawing and technology. Media Arts will focus on both the history and understanding of creating still and moving images, the manipulation of digital images, and interactive design.

VISUAL ART

Visual Art I : **G05H08**

Grade: 9-12

Fee: \$15

Prerequisite: None

Description: This is a foundational visual art course for students who enjoy the process of creating art. This course will cover the elements of art as they apply to drawing, painting, clay, sculpture, and the media arts. Although a hands-on course, students will also encounter brief art history assignments on a weekly basis. This course requires self-discipline due to the fast pace that must be kept to cover all the materials and standards for High School Visual Arts 1.



Visual Art II: G05H09

Grade: 10-12

Fee: \$15

Prerequisite: Completion of Visual Arts I with a minimum of an A average and instructor approval. Students will undergo a portfolio review process before being accepted into Visual Arts II

Description: This course is designed for students who have a passion for art and are interested in advancing their skill level. Visual Arts II is a continued exploration of media and subject matter in a studio space with a deeper focus on the Elements of Art and Principles of Design. Students taking this course should be able to demonstrate an advanced level of competence in at least one or more art mediums.

Visual Art III: G05H10 Honors: G05H10H

Grade: 10-12

Fee: \$15

Prerequisite: Completion of Visual Arts I and II with a minimum of an A+ average as well as instructor approval. Students will undergo a portfolio review process before being accepted into Visual Arts III Honors.

Description: This honors course is designed for motivated students who wish to study and produce quality Visual Art in a studio setting. All honors students must demonstrate an advanced level of competence with two or more art mediums. Honors students will be expected to keep an outside sketchbook, producing at least one additional quality drawing per week outside of regular class assignments.

Choral Department: Class Offerings 2023-2024

Vocal Music	Concert Choir I-IV G05HA1CF /G05HA4CS	Women’s Choir I-IV G05H97WCF /G05HA0WCS	THS Chamber Singers I-IV– G05HA1F to G05HA4S THS Singers II-Honors-IV-Honors– G05HA1FH to G05HA4SH
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THS Chamber Singers G05HA1F - G05HA4S Honors: G05HA2FH - G05HA4SH

Grade: 9-12

Fee:\$20

Prerequisite: Membership is by audition only. THS Singers is for male and female singers who



have a strong choir background. Conductor approval is required.

Description: This group is an elite ensemble of singers with an emphasis on a variety of styles, foreign languages, and multicultural pieces. Performances are scheduled during the school day, after the school day, and on weekends. Performances are **required** for all singers. Members of the group are required to pay or raise funds each semester to defray the costs of music, performance attire, travel, competitions, and activities. THS Chamber Singers requires a significant financial and time commitment from both singers and parents. This ensemble is a year-long commitment for all members.

* Honors Credit is available for Sophomores-Seniors with conductor recommendation.

THS Women's Choir G05H97WCF - G05HA0WCS

Grade: 9-12

Fee: \$20

Prerequisite: Membership is by audition only. Women's Choir is for female singers who have a strong background in choir and successfully auditioned for the ensemble. Conductor approval is required.

Description: This ensemble of singers performs music with an emphasis on a variety of styles, foreign languages, and multicultural pieces. Performances are scheduled during the school day, after the school day, and on weekends. Performances are **required** for all singers. Members of the group are required to pay or raise funds each semester to defray the costs of music, performance attire, travel, competitions, and activities. THS Women's Choir requires a significant financial and time commitment from both singers and parents. This ensemble is a year-long commitment for all members.

Concert Choir G05HA1CF - G05HA4CS

Grade: 9-11

Fee: \$20 per semester

Prerequisite: None – Concert Choir is open to male and female singers who are interested in learning about choral music. No audition is required.

Description: Concert choir is a choral ensemble designed for developing singers or those that cannot make the financial and time commitments that come with the auditioned choirs. Members of this group receive training in vocal technique, choral performance singing, music sight-reading, and written music theory. Grades are based on participation and singing in rehearsal. A limited number of performances may be scheduled during the school day and after the school day. Performances are required for all singers. There is a \$20 mandatory music fee for this class which may be paid through fundraising activities.

Dual Enrollment Music Appreciation GO5H54M

Grade: 11-12

Prerequisite: 3.0 GPA and ACT of 19. Must have completed admission and meeting requirements per the school counseling office.

Description: See Motlow course catalog for more information:

http://catalog.mscc.edu/search_advanced.php?catoid=22



THEATRE ARTS

- **Level 1 Classes**

- **Intro to Theatre I- Prerequisite for Acting I & Stagecraft I**

- **G05H16 Theatre Arts I**

- **Grade:** 9-12

- **Fee:** \$20

- **Prerequisite:** None.

Description: To enlighten students to the notion that Theatre is a way of viewing the world via the creativity of the individual and the efforts of group and ensemble participation. Students will discover the elements of theatre through the use of basic acting skills, global theatre history, and the physical components of the theatre, auditions, and production participation. Students will learn ‘How to Learn’ about, explore and engage in Theatrical endeavors.

- **Level 2 Classes**

- **G05H17A Theatre Arts II- ACTING FOCUS**

- **Grade:** 10-12

- **Fee:** \$20

- **Prerequisite:** Intro to Theatre I

- A second level course taken after Level I, unless I give permission otherwise.

- **Description:** Students will focus on learning theatrical performance techniques. Through a series of collaborative group performances and individual monologue performances students will further develop their acting ability in this class.

- **G05H17S Theatre Arts II- STAGECRAFT FOCUS**

- **Grade:** 10-12

- **Fee:** \$20

- **Prerequisite:** Intro to Theatre I

- A second level course taken after Level I, unless I give permission otherwise.

- **Description:** Students will learn the basic principles of theatrical design and how productions are managed from a technical standpoint. Students will also learn the basics of scenic design, costume design, makeup design, and lighting design. This course will require students to use power tools and be dressed appropriately for working in a workshop environment.

- **Level 3 Classes**

- **G05H18AH Theatre Arts III-ACTING FOCUS Honors**

- **Grade:** 11-12

- **Fee:** \$20

- **Prerequisite:** Intro to Theatre I and Theatre II

- Taken after Acting II. This class will follow up on where the last one left off.

- **Description:** Students will expand on their previous acting classes and learn more advanced acting methods such as the Meisner and Alexander



methods. Through the performance of multiple monologues and paired scenes students will explore which methods work best for them and add these techniques to their repertoire. Students in this class must audition for Tennessee All-State Theater in the Spring.

- **G05H18SH Theatre Arts III-STAGECRAFT FOCUS Honors**
- **Grade: 11-12**
- **Fee: \$20**
- **Prerequisite: Intro to Theatre I and Theatre II**
 - Taken after Stagecraft II.
 - Expands on prior skills learned. Emphasis on refining the quality of work and building a portfolio of quality projects for college/workforce interviewing.
 - **Description:** Students will progress in their theatrical design journey, learning more about best practices in the industry today. Students will have more opportunities to completely realize their designs from the concept phase all the way to a working prototype. Each element as they go will be added to a final portfolio. Students in this class must interview for Tennessee All-State Theater in the Spring.
- **Level 4 Class**
 - **G05H19H Theatre Arts IV Honors**
 - **Advanced Theatre IV**
 - **Grade: 12**
 - **Fee \$20**
 - **Prerequisite: Theatre I, II, III**
 - Taken only after completing at least one of the level 3 classes, or from permission by teacher- Juniors and Seniors Only.
 - **Description:** This class will act as a college prep and career prep course. Students will pick a focus in either technical theatre, performance, or a hybrid focus. From there, students will work towards refining their portfolios, rehearsing for interviews, researching ways to market their skills in the workforce post-graduation. Students in this class must audition/interview for Tennessee All-State Theater in the Spring.



INSTRUMENTAL MUSIC

Honors is indicated by an “H” at the end of the course code

FALL	SPRING
Marching Band I Freshmen : G05H81M	Concert Band I Freshmen: G05H85C
Marching Band II Sophomores : G05H82M	Concert Band II Sophomores: G05H86C
Marching Band II Honors Soph.: G05H82MH	Concert Band III Juniors: G05H87C
Marching Band III Juniors : G05H83M	Concert Band IV Seniors: G05H88C
Marching Band III Honors Jrs: G05H83MH	Symphonic Band I Freshmen : G05H85S
Marching Band IV Seniors : G05H84M	Symphonic Band II Sophomores : G05H86S
Marching Band IV Honors Srs : G05H84MH	Symphonic Band II Honors Soph: G05H86SH
	Symphonic Band III Juniors : G05H87S
	Symphonic Band III Honors Jrs : G05H87SH
	Symphonic Band IV Seniors : G05H88S
	Symphonic Band IV Honors Srs: G05H88SH

Marching Band I - IV

Description: Marching Band offers a comprehensive course in all aspects of instrumental music for wind, percussion instruments, and color guard. This course is performance based, and includes marching and concert band, as well as chamber ensembles. Band students are offered opportunities to participate in regional and national music festivals.

Honors band requires additional permission from a director. This is a full year course. Taking only one semester is not an option. The honors instrumental music course is designed for students who desire to pursue advanced music and performance concepts. This course is offered in conjunction with Band II, III, and IV. Honors instrumental music students must select an aspect of music for in depth research, such as music theory, composition/arranging, or performance. In addition, all honors students must demonstrate an advanced level of competence on their major instrument by auditioning for All Mid-State Band during the fall semester and participating in the solo and ensemble festival in the spring semester.

Concert Band I - IV

Prerequisite: Prior instruction in instrumental music and permission of the band director.

Description: This course is based on the study of standard repertory for high school band. In addition to full-band performance, students also have the opportunity to participate and perform in chamber ensembles.



Symphonic Band I - IV

Prerequisite: Audition and permission of band director.

Description: Membership is by audition only. This course is designed for the advanced instrumental music student. The literature selected for this ensemble is the highest difficulty level from the standard repertory wind band and chamber ensembles. Both full-band and chamber ensemble performance experiences are part of this course.

Honors band requires additional permission from a director. This is a full year course. Taking only one semester is not an option. The honors instrumental music course is designed for students who desire to pursue advanced music and performance concepts. This course is offered in conjunction with Band II, III, and IV. Honors instrumental music students must select an aspect of music for in depth research, such as music theory, composition/arranging, or performance. In addition, all honors students must demonstrate an advanced level of competence on their major instrument by auditioning for All Mid-State Band during the fall semester and participating in the solo and ensemble festival in the spring semester.

Mathematics Course Offerings

- Tennessee State Department of Education mandates that all students be enrolled in a math course during each year of high school.
- A credit in Algebra I, Geometry, Algebra II, and a 4th year of math must be earned in order to graduate.
- The TN Ready (End-of-Course) tests will be given in Algebra I, Geometry, and Algebra II.

Tullahoma Virtual Academy Suggested Math Course Progressions			
Path	I	II	III
9th Grade	Algebra I	Algebra I Honors	Algebra II Honors (36 week course)
10th Grade	Geometry	Algebra II H (36 week course)	Geometry H / SDC Pre Calculus (1st Sem/2nd Sem)
11th Grade	Algebra II,	Geometry H / SDC Pre Calculus (1st Sem/2nd Sem)	AP Calculus AB (36 week course)
12th Grade	Bridge Math, SAILS Math, Pre-Calculus, Physics, AP Computer Science, or Motlow (must check with Motlow on requirements)	AP Calculus AB (36 week course)	AP Calculus BC (36 week Course)



- Students taking honors math courses are expected to maintain at least a “B” average in their current honors math class in order to remain in good standing for the Honors Math Program with teacher recommendation.
- Students may transfer to the Honors Program with teacher recommendation and exhibit proof as determined by the Honors Placement Test.
- Students may transfer from the Honors Program at the appropriate step.

Senior Year Math Placements (after Algebra II)

Requirement	Course Options
ACT Score 14 & below	Bridge
ACT Score 15, 16, 17, 18	SAILS Math
ACT Score 19 & Above	Pre-Calculus or Statistics
ACT Score 19 & Above	Motlow College Math Course (College Algebra)
Algebra II Grade at least C	Statistics or Pre Cal

Algebra I G02H00 END OF COURSE TEST

Grade: 9

Fee: \$10

Prerequisite: None

Description: Algebra I uses problem situations, physical models and appropriate technology to extend algebraic thinking and engage student reasoning.

Algebra I Honors G02H00H END OF COURSE TEST

Grade: 9

Fee: \$10

Prerequisite: Pass Math Placement Test, maintain at least “B” average, and teacher recommendation

Description: This course is designed to prepare students for Algebra II Honors. Course pace is *rigorous*. Algebra I uses problem situations, physical models and appropriate technology to extend algebraic thinking and engage student reasoning.

* Students taking honors math classes are expected to maintain at least a “B” average in their current honors math class in order to remain in good standing for the Honors Math Program with teacher recommendation.



Geometry G02H11 END OF COURSE TEST

Grade: 9-11

Fee: \$5

Prerequisite: Algebra I credit

Description: This course investigates plane and three-dimensional figures, analyzes relationships between congruent and similar figures, applies triangular relationships, investigates coordinate geometry, and applies inductive and deductive reasoning.

Geometry Honors G02H11H END OF COURSE TEST

Grade: 10 – 11

Fee: \$5

Prerequisite: Algebra II Honors credit and teacher recommendation

Description: This course is an in-depth, rigorous study of plane, solid, congruent, and similar figures, triangle relationships, circles, coordinate geometry, and an introduction to trigonometry. It includes extensive proof of theorems and formulas.

* Students taking honors math classes are expected to maintain at least a “B” average in their current honors math class in order to remain in good standing for the Honors Math Program with teacher recommendation.

Algebra II G02H05 END OF COURSE TEST

Grade: 11-12

Fee: \$5

Prerequisite: Geometry credit.

Description: This course is a study of algebraic models, functions, graphs, linear relationships, matrices, linear systems, quadratic equations and functions, polynomial and polynomial functions, exponential and logarithmic functions, rational functions, sequences and series, probability and statistics. Applications are emphasized with each topic.

Algebra II Honors G02H06AH/G02H07BH END OF COURSE TEST

Grade: 9 or 10

Fee: \$10

Prerequisite: Minimum “B” average in Algebra I Honors, pass Honors Math Placement Test, and a teacher recommendation.

Description: This is a 36-week course. Students receive two (2) credits. The first semester is an elective credit and the second semester is a math credit in Algebra II. Course pace is *rigorous*. This course is an in-depth review of the topics taught in Algebra I and instruction in many topics. The student will be able to connect physical, graphical, verbal, and symbolic representations of various topics.

* Students taking honors math classes are expected to maintain at least a “B” average in their current honors math class in order to remain in good standing for the Honors Math Program with teacher recommendation.



Advanced Math Concepts G02H42H

Grade: 9

Fee: \$5

Prerequisite: Pass Math Placement Test, Algebra I credit, maintain at least “B” average, and teacher recommendation

Description: This is an 18-week course to be taught in the Fall semester as an honors elective credit. The course is designed to support students who follow the honors pathway in mathematics, who have earned an Algebra I credit as an eighth grader, and who have scored within the recommended range on the THS Mathematics Placement Test. The course pace is rigorous and will review topics taught in Algebra I to provide a strong foundation as students pursue Honors Algebra II. Topics will include the use of problem-solving techniques, physical models, and appropriate technology to extend algebraic thinking and engage student reasoning. Students taking honors math classes are expected to maintain at least a “B” average in their current honors math class to remain in good standing for the Honors Math Program with teacher recommendation.

Bridge Math G02H41

Grade: 12

Fee: \$5

Prerequisite: Algebra II credit and ACT Math subscore 14 or lower

Description: This course is offered for students in their **senior year**. Students will revisit concepts learned in algebra and geometry; however, an emphasis will be placed on integrating technology, problem solving, and applications to the real world. The purpose of the course is to build a stronger foundation of mathematical concepts, to develop connections between math coursework, and to develop a higher depth of knowledge.

Students following *Path I with Bridge Math as their senior course will choose course number G02H41 and THS will place students in the appropriate class based upon ACT score.

Pre Calculus G02H23

Grade: 12

Fee: \$5

Prerequisite: Algebra II and 19 on ACT

Description: Precalculus prepares students for college level STEM focused careers. Students extend their knowledge of algebra 2, going deeper into similar concepts. Topics for student mastery involve building and interpreting functions (polynomial, exponential, logarithmic, and trigonometric). Sequences and series will be reviewed. Modeling real-world situations occurs throughout the course.



SDC PreCalculus (formerly Honors Precalculus) G02H74

Grade: 10-12

Fee: \$5

Prerequisite: Algebra I Honors, Algebra II Honors, Geometry Honors credit and teacher recommendation

Description: This course is a dual credit honors course and is designed for students whose plans include calculus taken either in high school or college. Students can earn a college credit at any Tennessee public postsecondary institution upon successful completion of the course and a passing score on the free online statewide dual credit exam. Topics covered are algebraic and transcendental functions; inequalities; vectors; polar coordinates and complex numbers; and analytic geometry. This course contains an in-depth study of trigonometry.

*Students taking honors math courses are expected to maintain at least a “B” average in their current math class in order to remain in good standing for the Honors Math Program with teacher recommendation.

Statistics G02H37

Grade: 11-12

Fee: \$5

Prerequisite: Algebra II with a grade of C or better.

Description: This course is an introduction to probability and statistics. Topics covered include sampling, frequency distribution, elementary probability, hypothesis testing, linear regression and correlation, analysis of variance and non-parametric statistics.

Calculus I AP Honors G02H24A/G02H24B

Grade: 11-12

Fee: \$110 (includes AP test fee)

Prerequisite: A minimum “B” average in Pre-Calculus

Description: This is a 36-week course with an elective credit awarded for semester one (1) and a math credit in calculus awarded for semester two (2). The content of this course is based upon the College Board Calculus (AB) objectives. Topics include: limits, continuity, derivatives, and integrals of functions of one variable.

* Students taking honors math classes are expected to maintain at least a “B” average in their current honors math class in order to remain in good standing for the Honors Math Program with teacher recommendation.

Calculus II AP Honors G02H25B/G02H25C

Grade: 12

Fee: \$110 (includes AP test fee)

Prerequisite: AP Calculus AB credit

Description: This is a 36-week course with an elective credit awarded for semester one (1) and a math credit in Calculus II awarded for semester two (2). In addition to a review of Calculus AB topics, other topics include advanced integration, differential equations, infinite series, conic sections, vectors,



parametric equations, polar coordinates, and an introduction to multivariable calculus.

Dual Enrollment PreCalculus I Math 1710

Precalculus Algebra

Grade: 11-12

Fee: TBA, set by Motlow

Prerequisite: A minimum “B” average in Algebra II and ACT of 19.

Description: See Motlow Class description. This course includes a study of functions and their graphs with emphasis on linear, quadratic, polynomial, rational, exponential, and logarithmic functions; equations, inequalities, and systems; matrices; conic sections; sequences and series; and probability. **This is a Dual Enrollment Course and is planned to be offered on THS campus Fall 2023 pending enrollment numbers.** See Motlow course catalog for more information: http://catalog.mscc.edu/search_advanced.php?catoid=22

Dual Enrollment Statistics Math 1510

Probability and Statistics

Grade: 11-12

Fee: TBA, set by Motlow

Prerequisite: See Motlow Course Catalog, also see Motlow Classes

Description: This course is an introduction to probability and statistics without calculus. Topics covered include simplifying, frequency distribution, elementary probability, hypothesis testing, linear regression and correlation, analysis of variance, and non-parametric statistics. ACT score requirement. This is the first course requirement for the Motlow/THS Health Care Academy Program. **This is a Dual Enrollment Course and is planned to be offered on THS campus Spring 2024 pending enrollment.** See Motlow course catalog for more information: http://catalog.mscc.edu/search_advanced.php?catoid=22

Wellness and Physical Education

Lifetime Wellness G08H02

Grade: 9-10

Fee: None

Prerequisite: Students who missed class in 9th Grade to satisfy the state requirement.

Description: Wellness stresses a lifelong process of positive lifestyle management that seeks to integrate the social, emotional, intellectual, and physical self for a more productive, quality lifestyle. Units may include the following: aerobics, volleyball, soccer, tennis, softball, flag football, floor hockey, table tennis, and beginning weight training. The student will perform some basic movement skills in tests as well as a cardio-conditioning test.



PE I G08H00**Grade:** 9-10**Fee:** \$5**Prerequisite:** None

Description: The goal of physical education is to develop physically literate individuals who have the knowledge, skills, and confidence to enjoy a lifetime of healthy physical activity. This class is a team and individual activities class teaching the students lifetime skills at participating in these lifelong activities. The class will include isotonic and isometric training performance in these lifetime activities. The student will perform some basic movement skills in tests as well as cardio-conditioning tests.

PE II Fall/Spring G08H01F/S**Grade:** 9-12**Fee:** \$5**Prerequisite:** PE staff signature for the class or athletic coach recommendation

Description: This class is a weight training and agility class emphasizing improvement in the student's athletic abilities with the athletic coaches choosing the training program.

SCIENCE

Anatomy & Physiology G03H31**Grade:** 10-12**Fee:** \$20**Prerequisite:** Biology

Description: Anatomy and Physiology will enable students to develop an understanding of the relationships between the structures and functions of the human body. Students will demonstrate their workable knowledge of medical terminology. Case studies and projects will be examined during this class.

Anatomy and Physiology Honors G03H31H**Grade:** 11-12**Fee:** \$ 20**Prerequisite:** Biology & Medical Terminology

Description: This class is an intensive study of the structure and function of the human body. This will include a review of introductory biology, cytology, histology, integumentary, skeletal, muscular, nervous, circulatory, and digestive systems and the special senses. Articles and projects are required for this class.



Biology G03H03**Grade:** 10**Fee:** \$20**Prerequisite:** Physical Science or Environmental Science

Description: Biology I is a lab science course that introduces the world of living things. This course content includes molecules to organisms: structures and processes, ecosystems: interaction, energy, and dynamics, heredity: inheritance and variation of traits, biological change: unity and diversity, and links among engineering, technology, science, and society.

Biology I Honors G03H03H**Grade:** 9**Fee:** \$20**Prerequisite:** 8th grade teacher recommendation

Description: Biology I Honors is a lab science course for students on the honors path. It is taught as a college prep course in method and in content, which includes biodiversity, cell parts and processes, ecosystems, genetics, and science history. In addition to the basic curriculum, additional out-of-class assignments and projects are required.

AP Biology G03H10A/G03H10B OFFERED 2023-2024**Grade:** 11-12**Fee:** \$130 (includes AP Test Fee)**Prerequisite:** Student must have completed Biology H and have teacher recommendation.

Description: AP Biology is a year-long, college-level course that focuses on the four “big ideas” of Biology: cellular processes, evolution, genetics and information transfer, and interactions. The AP Biology course is designed to foster advanced inquiry and reasoning skills, such as designing and conducting investigations, analyzing data, applying mathematical routines, and connecting concepts within and across domains. This rigorous course is open to highly motivated 11th and 12th graders, who have successfully completed Biology I and wish to achieve higher proficiency and college credit.

Chemistry I G03H12**Grade:** 10-12**Fee:** \$20**Prerequisite:** Algebra I & Biology

Description: This basic Chemistry course will examine laboratory techniques, atoms and molecules, formula equation writing, naming compounds, the periodic table, basic stoichiometry, gas laws, and chemical bonding.



Chemistry I Honors G03H12H

Grade: 10-12

Fee: \$20

Prerequisite: Algebra I and Biology grade of B or higher

Description: This advanced Chemistry course is designed for students, who plan to major in Science, Math, Medicine, or Engineering in college. This is an in-depth study of atomic structure, periodic chart, quantitative relationships of chemical reactions, stoichiometry, gas laws, and chemical bonding.

AP Chemistry

G03H16A/G03H16B

OFFERED 2024-2025

Grade: 11-12

Fee: \$130 (included AP test fee)

Prerequisite: Biology H, Chemistry H, and Algebra II

Description: AP Chemistry is a year long, college-level course that focuses on the six “big ideas” of chemistry: structure of matter, properties of matter, chemical reactions, rate of chemical reactions, thermodynamics, and equilibrium. The AP chemistry course is designed to foster advanced inquiry and reasoning skills, such as designing and conducting investigation, analyzing data, and applying mathematical routines. This rigorous course is open to highly motivated students that have successfully completed Chemistry I Honors and wish to achieve higher proficiency and college credit.

Environmental Science G03H33

Grade: 9-12

Fee: \$20

Prerequisite: none

Description: This course is designed to show thematic connections between a variety of science disciplines including biology, chemistry, and physics. It gives students a coherent and realistic picture of the applications of a variety of scientific concepts as they manifest in our environment.

Environmental Science Honors G03H33H

Grade: 10-12

Fee: \$20

Prerequisite: Biology Honors

Description: This course emphasizes the function of the earth’s system. Emphasis is placed on the human interactions with the Earth’s geologic and environmental systems, predictability of a dynamic Earth, origin and evolution of the Earth system and universe, and geochemical cycles and energy in the Earth’s system.

Physical Science G03H00

Grade: 9

Fee: \$20

Prerequisite: None

Description: Introduction to physical science is an entry-level science course. This course is designed to introduce students to a variety of different sciences at a surface level. In this course, we cover scientific measurement, matter (chemistry), forces, energy, waves and technology, and earth and human impact. This class will prepare students for any upcoming chemistry courses.



Physics I Honors G03H20H**Grade:** 11-12**Fee:** \$20**Prerequisite:** Successful completion of Chemistry I Honors and Algebra II with a “B” or higher. Students who do not meet these criteria must have TEACHER RECOMMENDATION to enter this course.**Description:** This advanced course is designed to give the student a background in Newtonian physics. Course topics will include the following: force, gravitation, work, energy, sound, and light wave motion.**STEM I: Foundations Honors C21H15H****Grade:** 9-12**Fee:** \$20**Prerequisite:** None**Description:** STEM I: Foundations is a foundational course in the STEM cluster for students interested in learning more about careers in science, technology, engineering, and mathematics. This course covers basic skills required for STEM fields of study. Upon completion of this course, proficient students are able to identify and explain the steps in both the engineering design and the scientific inquiry processes. They conduct research to develop meaningful questions, define simple problem scenarios and scientific investigations, develop fundamental design solutions, conduct basic mathematical modeling and data analysis, and effectively communicate solutions and scientific explanations to others.**STEM II Applications Honors C21H16H****Grade:** 10-12**Fee:** \$20**Prerequisite:** STEM I: Foundations**Description:** STEM II: Applications is a project-based learning experience for students, who wish to further explore the dynamic range of STEM fields introduced in STEM I: Foundations. Building on the content and critical thinking frameworks of STEM I, this course asks students to apply the scientific inquiry and engineering design processes to a course-long project selected by the instructor with the help of student input. Upon completion of this course, proficient students will have a thorough understanding of how scientists and engineers research problems and methodically apply STEM knowledge and skills; and they will be able to present and defend a scientific explanation and/or an engineering design solution to comprehensive STEM-related scenarios.**STEM III: STEM in Context C21H17H****Grade:** 10 – 12**Fee:** \$15**Prerequisite:** STEM I & STEM II**Description:** STEM III: STEM in Context is an applied course in the STEM career cluster which allows students to work in groups to solve a problem or answer a scientific question drawn

from real-world scenarios within their schools or communities. This course builds on STEM I: Foundation and STEM II: Applications by applying scientific and engineering knowledge and skills to a team project. Upon completion of this course proficient students will be able to effectively use skills such as project management, team communication, leadership, and decision making. They will also be able to effectively transfer the teamwork skills from the classroom to a work setting.

SOCIAL STUDIES

Contemporary Issues G04H17

Grade: 9-12

Fee: \$5

Prerequisite: None

Description: In this course, students study various issues facing today's society enabling them to discover their values and responsibilities as citizens in their society. Students will utilize different learning methods to research, discuss, debate, and formulate opinions on those contemporary issues.

Economics G04H13

Grade: 11-12

Fee: \$5

Prerequisite: None

Description: The study of choice – what do we do with what we have. This course covers three areas: Economic Fundamentals, Microeconomics/Macroeconomics, and Personal Finance

Economics Honors G04H13H

Grade: 11-12

Fee: \$5

Prerequisite: None

Description: The course builds upon the framework of basic economics. Students are taught about the basics of microeconomics, such as the nature of supply and demand, externalities, taxation, scarcity as well as taught the concepts of macroeconomics.

Economics Micro AP G04H24

Grade: 10 – 12

Fee: \$105 (includes AP test fee)

Prerequisite: None

Description: This course covers economics topics that matter to business. The student will learn about externalities and property rights, elasticity, and the various market structures in which businesses operate. The AP Micro student is expected to take the Advanced Placement test in microeconomics at the conclusion of the semester. Offered the spring semester in odd years.



Economics Macro AP G04H25

Grade: 10-12

Fee: \$105 (includes AP test fee)

Prerequisite: None

Description: This course covers issues that affect the whole economy. Topics include GDP, monetary policy, fiscal policy, and banking. The course explains the causes of recessions, depressions, and expansions. Offered in the spring in even years.

Psychology CLEP G04H15CL

Grade: 10 – 12

Fee: \$15 plus \$90 CLEP test fee

Prerequisite: None

Description: The Introductory Psychology exam covers material that is usually taught in a one-semester undergraduate introductory course in psychology. It stresses basic facts, concepts, and generally accepted principles in history; approaches and methods of psychology; biological bases of behavior, sensation, and perception; states of consciousness; learning; cognition; motivation and emotion; personality; psychological disorders and treatment; social psychology; and statistics, tests, and measurements. Students are expected to register and sit for the CLEP exam. Passing the CLEP exam will allow the student to earn 3.0 college credit hours. CLEP courses are eligible for additional percentage point weighting and GPA weighting for students who sit for the aligned culminating exam (same as AP Course). Register for the CLEP exam here:

<https://clep.collegeboard.org/clep-exams/introductory-psychology>

Psychology G04H15

Grade: 9– 12

Fee: \$5

Prerequisite: None

Description: This course is designed to provide an overview of the study of psychology. Focus includes the study of human behavior, perception, problem-solving, reasoning, and abnormal behavior.

Sociology G04H14

Grade: 9 – 12

Fee: \$5

Prerequisite: None

Description: This course is designed to emphasize basic sociological principles. The course is also concerned with group interaction, social problems faced by teenagers and social problems of society.

US Government/Civics G04H12

Grade: 11-12

Fee: \$5

Prerequisite: None

Description: This course is a study of how local, state, and federal government interact. A passing grade on a civics test to be given to all students is a state requirement for graduation.



US Government/Civics Honors G04H12H

Grade: 11-12

Fee: \$5

Prerequisite: None

Description: This course is a study of how local, state, and federal government interact. In addition to a regular curriculum, honor students will complete independent study projects inside and outside of the school environment. A passing grade on a civics test to be given to all students is a state requirement for graduation.

US History AP G04H21A/G04H21B

Grade: 10 – 12

Fee: \$125 (includes AP test fee)

Prerequisite: None

Description: This is a 36-week college level course that examines political, economic, social, intellectual, cultural, and technological developments in the United States from the 1400s until the present. This course discusses the major areas of U.S. history that include: Ages of Discovery (1492) to modern history. Major areas of emphasis include English Colonization, the American Revolution, Constitution, Jeffersonian Democracy, Age of Jackson, Manifest Destiny, The Civil War and Reconstruction, Gilded Age, the Progressive Era, World War I, The Great Depression, The New Deal, World War II, The Civil Rights Movement, Vietnam War, and post Vietnam to the present. This advanced course emphasizes document analysis, writing, and higher-order thinking skills. In order to receive AP credit for the course, the student must take the AP exam. The course will prepare the students for the AP exam by focusing on historic content along with analytical, interpretive and writing skills necessary for the exam in May.

Statewide Dual Credit American History II GO4HB3

College level (History 2020)

Grade: 11 – 12

Fee: \$5

Prerequisite: English I and English II

Description: The contention and structure of this class will include topics such as the Reconstructing America after the Civil War to Modern America examining terrorism and security state. 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 postsecondary-level learning objectives. Students who meet or exceed the exam 'cut score' (70%) receive college credit that can be applied to any Tennessee public postsecondary institution. Exam scores are reported on the high school transcript to ensure postsecondary credit is accurately awarded. This course can count as a college elective. By making a 60 on course work, students will receive high school credit. By passing course work AND achieving the 70% on the state exam, students earn their college credit. There are NO college fees or expenses to enroll in statewide dual credit courses. ****Teacher recommendation. Suitable GPA evidencing college-level skill.****



Dual Enrollment Modern American History HIST 2020

Grade: 10-12

Fee: TBA by Motlow

Description: This course traces the political, economic, diplomatic, and social development of the United States from the Reconstruction period to the present. Attention is given to contemporary problems and the place of the United States as a world power. **This is a Dual Enrollment Course and is planned to be offered on THS campus Fall 2023 pending enrollment numbers.** For more information regarding the course description, visit http://catalog.mscc.edu/search_advanced.php?catoid=22

US History G04H11

Grade: 10 – 12

Fee: \$5

Prerequisite: None

Description: This course discusses the post Reconstruction Era to the present. Major areas of emphasis include the Gilded Age, the Progressive Era, World War I, The Great Depression, The New Deal, World War II, The Civil Rights Movement, Vietnam War, and post-Vietnam to the present.

US History Honors G04H11H

Grade: 10 – 12

Fee: \$5

Prerequisite: 93 or above in World History

Description: This course discusses the post Reconstruction Era to the present. Major areas of emphasis include the Gilded Age, the Progressive Era, World War I, The Great Depression, The New Deal, World War II, The Civil Rights Movement, Vietnam War, and post Vietnam to the present. This advanced course emphasizes writing, and higher-order thinking skills. The honors student will complete a major project related to the course work each quarter. These projects will require extensive research, analysis, and independent study. This rigorous course is recommended for the student who earns a 93 or above in World History.

World History G04H10

Grade: 9

Fee: \$5

Prerequisite: None

Description: This course is designed to teach the Age of Revolutions to the development of modern nations with emphasis on cause and effect. Students will be expected to develop writing,



critical reading, and critical thinking skills. Out-of-class reading is essential for success in this class.

World History Honors G04H10H

Grade: 9

Fee: \$5

Prerequisite: 93 or above in 8th grade history and teacher recommendation

Description: This course is designed to teach the Age of Revolutions to the development of modern nations with emphasis on cause and effect. Students will be expected to develop writing, critical reading, and critical thinking skills. Out-of-class reading is essential for success in this class. The honors student will complete a major project related to the course work and personal interest for each term. These projects will require extensive research, analysis, and independent study. This rigorous course is recommended for the student who earns a 93 or above in eighth-grade history.

Spanish

Spanish I G24H04

Grade: 11-12

Fee: \$5.00

Prerequisite: None

Description: Spanish I is designed as an introduction to the four areas of communication: listening, reading, speaking, and writing. In-class learning techniques include listening and speaking activities following a conversational format, writing activities that include rote drill and composition development, and reading and video activities focused on cultural elements of various Spanish-speaking countries. In addition, the student will spend time on the internet using programs that are intended to help individualize the student's learning of Spanish. Regular practice both inside and outside of the classroom is a requirement of the course.

Spanish I Honors G24H04H

Grade: 10-12

Fee: \$5.00

Prerequisite: Recommendation of last English teacher. A “B” or higher average in Honors English.

Description: Spanish I Honors is designed as a **more accelerated and in-depth study** of the four areas of communication: listening, reading, speaking, and writing. In-class learning techniques include listening and speaking activities following a conversational format, writing activities that include rote drill and composition development, and reading and video activities focused on cultural elements of various Spanish-speaking countries. In addition, the student will spend time on the internet using programs that are intended to help individualize the student's learning of Spanish. Regular practice both inside and outside of the classroom is a requirement of the course.



Dual Enrollment Spanish I Spanish 1010

Beginning Spanish I

Grade: 11-12

Fee: TBA by Motlow

Description: This course emphasizes the essentials of Spanish grammar and develops reading, writing, and speaking skills in the language. Readings about Spanish cultures are included. **This is a Dual Enrollment Course and is planned to be offered on THS campus Fall 2023 pending enrollment numbers.** For more information regarding the course description, visit http://catalog.mscc.edu/search_advanced.php?catoid=22

Spanish II G24H05

Grade: 11-12

Fee: \$5.00

Prerequisite: Spanish I

Description: Spanish II strives to build more advanced skills in the four areas of communication: listening, reading, speaking, and writing. As in Spanish I, the student will use a variety of learning techniques to master the course goals and objectives. Regular practice both inside and outside of the classroom is a requirement of the course.

Spanish II Honors G24H05H

Grade: 10-12

Fee: \$5.00

Prerequisite: A “C” or higher average in Spanish I Honors

Description: Spanish II Honors is designed as a **more accelerated and in-depth** course and strives to build more advanced skills in the four areas of communication: listening, reading, speaking, and writing. As in Spanish I Honors, the student will use a variety of learning techniques to master the course goals and objectives. Regular practice both inside and outside of the classroom is a requirement of the course.

Dual Enrollment Spanish II

Beginning Spanish II Spanish 1020

Grade: 11-12

Fee: TBA by Motlow

Prerequisite: SPAN 1010

Description: This course continues to emphasize the essentials of Spanish grammar and further develops reading, writing, and speaking skills. Readings about Spanish and South American cultures are included; and the literature of important Spanish authors, such as Cervantes, Espronceda, and Gaballero, is introduced. **This is a Dual Enrollment Course and is planned to be offered on THS campus Spring 2024 pending enrollment numbers.** http://catalog.mscc.edu/search_advanced.php?catoid=22



Spanish III Honors G24H06H

Grade: 11-12

Fee: \$5.00

Prerequisite: An “A” or “B” in Spanish II Honors or an “A” in Spanish II + teacher recommendation.

Description: This course is an advanced study of Spanish grammar and vocabulary with an emphasis on increased proficiency in all four areas of communication: listening, reading, speaking, and writing. An additional focus of this course is the study of culture, history, and literature associated with the target language.

Spanish IV Honors G24H07H

Grade: 12

Fee: \$5.00

Prerequisite: Spanish I, II, III, and recommendation of Spanish III teacher.

Description: This course is an advanced study of Spanish grammar and vocabulary with an emphasis on increased proficiency in all four areas of communication: listening, reading, speaking, and writing. An additional focus of this course is the study of culture, history, and literature associated with the target language.

Career Technical Education (CTE)

Journalism-Yearbook/WBL G25H29YBA/G25H29YBB

Grade: 11-12

Fee: None

Prerequisite: Teacher recommendation.

Description: Open to students in grades 10-12, based on teacher rating of ability, dependability, willingness to work, writing ability, etc. Duties include taking pictures, preparing layouts, selling advertisements, and writing copy for the yearbook. A student should have computer skills. A student may have to work before or after school to take pictures and meet deadlines.

Requirements: Medical insurance, self-transportation, drivers license, and vehicle insurance.

Work-Based Learning: Career Practicum G25H29F/S (Fall/Spring)

Grade: 12

Fee: None

Prerequisite: Two to three credits in a career and Technical Program of Study or approved academic area. Three credits required if employment does not relate to a student's program of study.

Description: Work-Based Learning is intended to provide students with opportunities to apply the skills and knowledge learned in career and technical and general education courses with a professional work environment. Students will attend approximately 10 days in the classroom at the beginning of the semester for instruction and paperwork completion. Requirements: Medical



insurance, self-transportation, drivers license, and vehicle insurance. Employed by an approved employer or internship position for at least 7 (seven) hours per week and one class period per week for classroom instructional time. Programs of Study: All

Focus of Study: Aviation Flight

Student Organization: SKILLS USA

Introduction to Aerospace C20H15

Grade: 9 – 11

Fee: \$15

Prerequisite: None

Description: Introduction to Aerospace is a comprehensive foundational course for students interested in pursuing careers in aviation. This course covers the basic principles governing flight and the regulation of flight that every aviation professional must know regardless of his or her occupation—as a pilot or an engineer, a salesperson or a specialist, a mechanic or a statistician. In addition to acquiring foundational knowledge of safety procedures and industry regulations, students will also gain essential understanding of aircraft structures, the flight environment, basic procedures, and navigation. Upon completion of this course, proficient students will be prepared for further study in advanced Aviation Flight and/or Aviation Maintenance courses.

Aviation I: Principles of Flight C20H16

Grade: 10 – 12

Fee: \$15

Prerequisite: Introduction to Aerospace

Description: Aviation I: Principles of Flight builds on the fundamental knowledge and skills learned in Introduction to Aerospace while teaching students the essential competencies needed for flight under normal conditions. Upon completion of this course, proficient students will be able to apply knowledge, skills, and procedures in a variety of simulated flight environments. Students who complete this course will have the opportunity to move on to advanced study in Aviation II: Advanced Flight, where they will continue to prepare for the FAA Private Pilot written exam.

Aviation II: Advanced Flight C20H18H

Grade: 10 – 12

Fee: \$15

Prerequisite: Intro to Aerospace and Aviation I

Description: Aviation II: Advanced Flight is the capstone course in the Aviation Flight program of study intended to prepare students for careers in aviation. While continuing to build upon the knowledge, skills, and competencies acquired in Introduction to Aerospace and Aviation I, students in Aviation II will receive rigorous instruction in preparation to take the Federal Aviation Administration (FAA) Private Pilot written exam. This course goes beyond the mastery of procedures under normal conditions learned in Aviation I: Principles of Flight and introduces students to the troubleshooting and diagnostic techniques used by pilots and other aircraft personnel to assess and correct for malfunctions, make adjustments in hazardous weather conditions, and perform other crucial emergency procedures. Continued emphasis is placed on



maintaining the safety of flight and developing sound judgment (“judgment training”) throughout these conditions. In addition, students will develop a keen understanding of advanced aerodynamics and the physics of flight to aid in decision-making and technical adjustments while working under simulated abnormal procedures. Finally, upon graduation, proficient students will be better prepared to begin flight training in pursuit of a private pilot’s license should they choose.

Aviation Maintenance Technology I Y20H20

Grade: 9-12

Fee:

Prerequisite: Intro to Aerospace

Description: Aviation Maintenance Technology I, Aircraft Systems builds on the fundamental knowledge and skills learned in Intro to Aerospace while teaching students the essential competencies needed for maintaining all mechanical, avionics and systems under normal conditions.

Upon completion of this course, proficient students will be able to apply knowledge, skills, and procedures in a variety of aviation environments.

Moreover, students who complete this course will have the opportunity to move on to advanced study in Aviation Maintenance II: where they will continue to prepare for the FAA Airframe & Powerplant (A&P) exam.

Aviation Maintenance Technology II Y20H21

Grade: 10-12

Fee:

Prerequisite: Intro to Aerospace and Aviation Maintenance Technology I

Description: Aviation Maintenance Technology II is the capstone course in the Aviation Maintenance program of study intended to prepare students for careers in aviation.

While continuing to build upon the knowledge, skills, and competencies acquired in Introduction to Aerospace and Aviation maintenance Technology I, students in Aviation Maintenance II will receive rigorous instruction in preparation to take the Federal Aviation Administration (FAA) Airframe and Powerplant (A&P) exam.

This course goes beyond the mastery of procedures under normal conditions learned in Aviation maintenance I: Aircraft Systems and introduces students to the troubleshooting and diagnostic techniques used by mechanics and other aircraft personnel to assess and correct for malfunctions, make repairs in all conditions, and perform other crucial emergency procedures.

Continued emphasis is placed on maintaining the safety of flight and developing sound judgment (“judgment training”) throughout these conditions.



TCAT Dual Enrollment Aviation Maintenance C20H04TCF/C20H04TCS

Grades: 11-12

Fee: \$15 plus cost not covered by the dual enrollment grant (students must have 2.0 GPA to qualify).

Prerequisite: Intro to Aviation and Aviation Maintenance I; CTE Director approval to waive prerequisites

Description: Yearlong course with two (2) credits. TCAT Dual Enrollment Aviation Maintenance is a **college-level** course taught at Tullahoma Virtual Academy by trained high-school teachers. Course learning objectives are developed by TCAT-Shelbyville in order to ensure alignment with post-secondary standards. Students will complete the two semesters of this course during their senior year of high school to complete their first trimester of clock hour requirements for the TCAT-Shelbyville aviation maintenance program.

Focus of Study: Architecture & Construction

Student Organization: Skills USA

Architectural & Engineering Design I C17H13

Formerly CAD I

Grades: 9 – 10

Fee: None

Prerequisite: Algebra I

Description: This is a foundation course in the Architecture & Construction cluster for students interested in a variety of engineering and design professions. Students will focus on developing and representing design ideas using technical drawing and modeling techniques, and applying the design process to solve design problems. Upon completion of this course, proficient students will be able to use CAD software to create multi-view, sectional view, and three-dimensional drawings using industry standards.

Architectural & Engineering Design II C17H14

Formerly CAD II

Grades: 10 – 12

Fee: None

Prerequisite: Architectural & Engineering Design I (CAD I)

Description: This course continues to develop skills learned in Architectural & Engineering Design I (CAD I) while increasing the complexity of drawings. Students will connect drawings with actual physical layouts by building models based on drawings, creating drawings based on objects and other physical layouts, and using software to create three-dimensional models.

Architectural & Engineering Design III-H A/B C17H10AH / C17H10BH

Formerly Advanced CAD II

Grades: 11 – 12

Fee: None

Prerequisite: Architectural & Engineering Design II (CAD II)

Description: This is a two (2) credit hour Honors course. Students will expand their problem-solving and critical-thinking skills by assessing the requirements of a project alongside the



available resources in order to accomplish realistic planning. Students will also be able to engage with industry-specific technology to create visual representations of project outcomes. In addition, students will continue compiling artifacts for inclusion in a portfolio, which they will carry with them throughout the full sequence of courses in this program of study. **Local dual credit with TCAT Shelbyville.**

Work-Based Learning Architectural & Engineering Design Practicum C17H45WBF/S

Grades: 11 – 12

Fee: None

Prerequisite: Architectural & Engineering Design III (CAD III)

Description: Engineering Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous engineering courses within a professional, working environment. In addition to developing an understanding of the professional and ethical issues encountered by engineers and technologists in the workplace, students learn to refine their skills in problem solving, research, communication, data analysis, teamwork, and project management. Upon completion of the practicum, students will be prepared for postsecondary study in engineering and technology fields.

Focus of Study:

Arts: Audio/Visual Technology & Communications: Digital Arts & Design – Student

Organization: Skills USA

Digital Arts & Design I C11H06

Grades: 9 – 11

Fee: None

Prerequisite: None

Description: Level one is designed to introduce students to the world of graphic design. This includes a basic understanding of Photoshop and Illustrator programs as well as photography. Digital Arts provides a creative outlet through computer based graphic art and hands-on experience. This course may serve as a fine art credit required for graduation or the first credit in the Digital Arts & Design (Multimedia) program of study.

Digital Arts & Design II C11H05

Grade; 10 – 12

Fee: None

Prerequisite: Digital Arts & Design I

Description: Level two builds on the skills learned in level one to further improve mastery and proficiency in photography, Illustrator and Photoshop. Students will build a foundation in screen printing, vinyl cutting, and embroidery. Students will learn to operate our school-based enterprise by working on orders, designs and much more. Students may also partner with Welding and Machining to complete a variety of projects.



Digital Arts & Design III C11H16**Grade:** 11 – 12**Fee:** None

Prerequisite: Digital Arts & Design I/Digital Arts & Design II/Teacher Approval school-based enterprise. Each student will hold a job position and be evaluated on their performance in that position. Each student will manage different departments such as supplies and inventory, order management and execution, accounting, vinyl, embroidery, screen-printing and more. Upon completion of this course, students will enhance their business management skills, fully understanding the day to day operations of a design business.

Work-Based Learning Digital Arts Practicum C11H26WF/S**Grades:** 11 – 12**Fee:** None

Prerequisite: Digital Arts & Design I & Digital Arts & Design II /Teacher Approval or Digital Arts & Design II and Applied Practicum/Teacher Approval if Digital Arts & Design I serves as a fine arts credit.

Description: Students may take up to two credits per year. Students must be 16 or older. Students will oversee and run the Digital Arts school-based enterprise. Each student will hold a job position and be evaluated on their performance in that position. Seniors may also be placed in a Digital Arts Internship off campus at a local business (set up by the teacher).

Focus of Study:**Arts: Audio/Visual Technology & Communications: Audio Visual Production****Broadcasting I C11H01****Grades:** 9 – 11**Fee:** None**Prerequisite:** None

Description: This course is designed to introduce students to the world of production. It contains a basic exploration of the phases of the production process including pre-production, production, and post-production. This includes a basic understanding of Premiere Pro, Audition, and the use of equipment. Broadcast Media is a hands-on course where students get to explore individual expressionism.

Broadcasting I I C11H02**Grades:** 10 – 12**Fee:** None**Prerequisite:** Earned credit in Broadcasting I

Description: Broadcasting II is the second course in the A/V Production program of study intended to prepare students for careers in audio/visual production. Building on knowledge acquired in Broadcasting 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.

Broadcasting I II C11H03

Grades: 11-12

Fee: None

Prerequisite: Earned credit in Broadcasting I & II

Description: Broadcasting 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 Broadcasting Practicum C11H25BMF/S

Grades: 11 – 12

Fee: None

Prerequisite: Broadcasting I, II, & III. Teacher recommendation.

Description: Students may take up to two credits per year. Students must be 16 or older. Students will oversee and run the Broadcasting school-based enterprise. Each student will hold a job position and be evaluated on their performance in that position. Seniors may also be placed in a Broadcasting Internship off campus at a local business (set up by the teacher).



Focus of Study: Business Management & Administration (BMA), Office Management (OM) and Finance (Fin)
Student Organization: FBLA

Statewide Dual Credit Course—College Credit Available C12H44

Introduction to Business College Code BUSN 1305

Grades 11-12

Fee: None

Prerequisite: One Business course

Description: College-level introductory business course provides an introduction to the business environment. Topics may include business ownership and organization, management, marketing, business ethics, accounting, economics, finance, and business careers. This course is on the AP five-point scale for GPA purposes and four points are added to the final semester grade. Students are required to take the statewide challenge exam at the conclusion of the term (100 multiple choice questions). Students passing the challenge exam with a 70 or greater will receive college credit for BUSN 1305 at public Tennessee colleges and universities. Students need at least one high school Business course to enroll. Others admitted with instructor, guidance, or CTE director approval on a case-by-case basis.

Introduction to Business & Marketing C12H26

Grade: 9 – 12

Fee: None

Prerequisite: None

Description: Students will learn about business and marketing by completing hands-on activities and team projects. Course content includes career exploration, business concepts and operations, foundational financial literacy, marketing concepts and activities, and social responsibility. Upon completion of this course successful students will have a fundamental knowledge and skill set for business, marketing, and finance. Programs of Study: Business Management, Marketing, & Finance.

Accounting I C29H00

Grades: 10 - 12

Fee: \$15

Prerequisite: None

Description: Would you like to run your own business someday? Accounting I introduces basic concepts to maintain manual and electronic financial records for a sole proprietorship and partnership. This includes analyzing business transactions, accounts receivable, accounts payable, payroll, taxes, and financial statements. Recommended for students who like working with numbers, plan to major in business, marketing, information systems in college, or would like to manage their own finances effectively. **Motlow dual credit opportunity is available upon completion of Accounting I and II.** Programs of Study: Business Management & Finance.



Accounting IIIH C29H01H

Grades: 11 – 12

Fee: \$15

Prerequisite: Accounting I

Offered: Spring

Honors Credit/Motlow Dual Credit with successful completion of Motlow Exam

Description: Are you planning to major in business in college? Do you want to build a strong background on the financial side of business? This course explores corporate departmental accounting, inventory methods, stockholders' equity, depreciation methods, and other accounting concepts. **Local dual credit with Motlow.** Program of Study: Finance

Business Management C12H17

Grades 10 - 12

Fee: None

Prerequisite: Introduction to Business & Marketing

Description: Do you want to start and operate your own business or perhaps you want to be part of a management team and you don't know where to begin? Business Management focuses on the development of a business plan and the production and delivery of goods and services. Students will analyze various business types; look at ethical and legal responsibilities, communication, decision-making procedures, personnel, safety, and related careers in today's dynamic business environment. Programs of Study: Business & Office Management

Digital Business Communications C12H16

Grades: 9 – 12

Prerequisite: None

Description: Digital Business Communications is designed to develop students' effective oral and electronic business communication skills utilizing multiple methods of communications, including social media, electronic publishing, design, layout, composition, and video conferencing. Upon completion of this course, proficient students will be able to demonstrate successful styles and methods for professional business communications using the proper tools to deliver effective publications and presentations. Programs of Study: Business & Office Management

Work-Based Learning: Business & Entrepreneurship Practicum C12H27F/S

Grade: 11- 12

Fee: None

Prerequisite: Two to three credits in a Business or Marketing program of study. Three credits required if employment does not relate to a student's program of study.

Description: Work-Based Learning is intended to provide students with opportunities to apply the skills and knowledge learned in Business and Marketing courses within a professional work



environment. Requirements: Students must be employed by an approved employer or internship position for at least 7 (seven) hours per week and one class period per week of classroom instructional time. Students will attend approximately 10 days in the classroom at the beginning of the semester for instruction and paperwork completion. Programs of Study: All

Personal Finance C29H11

Grade: 10 – 12

Fee: None

Prerequisite: None

Description: Wealthy vs. Rich! What is the difference? Money Management. Let's talk about individual choices and occupational goals. What are your future earnings potential; your passions? Design a budget, develop knowledge of debt and credit management and understand insurance and taxes. How do you calculate your gross earnings, your net earnings? What is FICA? How do I save and what are investments? This course will provide a foundational understanding for making informed personal financial decisions. **Local dual credit with Motlow. The one credit course meets the minimum requirement by the state of Tennessee for all high school graduates in completion of a personal finance course.**

Personal Finance Online C29H11O

Grade: 11 – 12

Fee: None

Prerequisite: Internet availability

Description: Course is taught in online format. Wealthy vs. Rich! What is the difference? Money Management. Let's talk about individual choices and occupational goals. What are your future earnings potential; your passions? Design a budget, develop knowledge of debt and credit management and understand insurance and taxes. How do you calculate your gross earnings, your net earnings? What is FICA? How do I save and what are investments? This course will provide a foundational understanding for making informed personal financial decisions. **The one credit course meets the minimum requirement by the state of Tennessee for all high school graduates in completion of a personal finance course.**

Focus of Study: Cosmetology

Student Organization: Skills USA

Cosmetology I C19H12 (Principles of Cosmetology)

Grades 9-10

Fee: \$25/Semester

Prerequisite: None

Description: Content stresses safety, environmental issues, and protection of the public and designers as integrated with principles of hair design, nail structure, and cosmetic procedures. Laboratory facilities and experiences simulate those found in the cosmetology industry. Students learn how to braid, shampoo and create up styles, manicures/pedicures, eyebrow wax, perm wraps, and other basic skills.



Cosmetology II A/B C19H14A/C19H14B

Design Principles of Cosmetology

Grades: 10 – 12

Fee: \$25 per semester

Prerequisite: Principles of Cosmetology and teacher recommendation

Description: Students can earn one (1) to two (2) credits in this course. Content provides students the opportunity to acquire knowledge and skills in both theory and practical application. Advanced knowledge and skills in hair design, nail artistry, and cosmetic applications will be enhanced in a laboratory setting, which duplicates cosmetology industry standards. Students learn to cut hair, color, apply chemical retexturing, craft a permanent wave, and continue basic skills.

Cosmetology III A/B C19H13A/C19H13B

Chemistry of Cosmetology

Grade: 12

Fee: \$25 per semester

Prerequisite: Design Principles of Cosmetology and teacher recommendation

Description: Students can earn one (1) or two (2) credits in this course. The advanced level of cosmetology prepares students to perform work-related services using chemicals in the cosmetology industry. Content provides students the opportunity to acquire foundation skills in both theory and practical applications. Laboratory facilities and experiences will be used to simulate cosmetology work experiences. Students will have the opportunity to earn a hair braider industry certification.

Work-Based Learning: Cosmetology Career Practicum C19H35F/S

Grade: 12

Fee: None

Prerequisite: Two to three credits in a Cosmetology program of study. Three credits required if employment does not relate to a student's program of study. Application process and approval required.

Description: Students will work in a salon environment performing a variety of tasks to gain a better understanding of business procedures and operations of a salon within a professional work environment. Students will perform general duties that do not require a professional license.

Requirements: Students must be employed by an approved employer or internship position for at least 7 (seven) hours per week and one class period per week of classroom instructional time. Students will attend approximately 10 days in the classroom at the beginning of the semester for instruction and paperwork completion. Programs of Study: All

Focus of Study: Health Science

Student Organization: HOSA

Health Science Education C14H14

Grade: 9-10

Fee: Class Fee or join HOSA for \$20.00



Description: This course explores basic health care careers, concepts, and skills and develops leadership and communication skills. CPR and first aid training. HOSA dues optional: \$20.00

Medical Therapeutics C14H15

Grade: 10 – 12

Fee: Class Fee or join HOSA for \$20.00

Prerequisite: Health Science

Description: This course serves students who are interested in building skills and a knowledge base needed for careers in healthcare. Successful students will identify careers in therapeutics services; assess, monitor, evaluate, and report patient/client health status; and identify the purpose and components of treatments. HOSA dues optional: \$20.00

Work-Based Learning: Clinical Internship C14H11

Grade: 12

Offered Senior Year

Fee: Class Fee or join HOSA for \$20.00

Prerequisite: Health Science, Medical Therapeutics, and Anatomy and Physiology

Clinical Internship is a capstone course and work-based learning experience designed to provide students with real-world application of skills and knowledge obtained in a prerequisite Health Science course. Upon completion of this course, proficient students will be able to pursue certification in the pre-requisite course of Cardiovascular Services or Pharmacological Science once they have graduated and reached 18 years of age. 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. Business Management & Administration concentrators may also take this course as part of a career practicum/work-based learning placement within the Health Services Administration program of study.

Work-Based Learning: Therapeutic Clinical Services/CNA (SPRING Semester) C14H16

Grade: 12

Fee: Class Fee or join HOSA for \$20.00

Prerequisite: Biology, Medical Therapeutics, Health Science and Anatomy and Physiology

Description: This course is a capstone course designed to prepare students to pursue careers in the field of nursing. Through classroom instruction and off-site nursing training at a local nursing facility, students will be prepared to perform the duties required of a nursing assistant such as maintaining residents' rights and independence, providing care safely, preventing emergency situations, and preventing infection through infection control. At the conclusion of this course students are expected to sit for the Certified Nurse Assistant exam. Strong organizational and communication skills needed. Additional Requirements: Physical, Hep B vaccine, TB skin test, proof of Covid vaccine, medical insurance, medical liability insurance, self-transportation and liability insurance, two sets of scrubs, and other uniform accessories. HOSA dues optional: \$20.00



Focus of Study: Information Technology
Student Organization: Skills USA

Coding Foundations C10H11

Grade: 9 – 12

Fee: None

Prerequisite: None

Description: Everyone is talking about coding, but where do you start? Start here, with Coding Foundations. Coding Foundations teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. Programming languages learned will be HTML, CSS, and JavaScript.

Coding I C10H14

Grade: 10 – 12

Fee: None

Prerequisite: Coding Foundations

Description: Extend your knowledge of computer coding. Let's program! An emphasis will be placed on the tools learned in Coding Foundations to create and write computer programs. Students will become more proficient in the language chosen to learn, and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution.

Coding II C10H15

Grade: 10 – 12

Fee: None

Prerequisite: Coding Foundations and Coding I

Description: Want a challenge? Develop advanced skills in problem analysis, construction of algorithms, and computer implementation of algorithms. Students participate in short-term and long-term programming projects accomplished both individually and in small groups to hone the discipline and logical thinking skills necessary to craft error-free syntax for writing and testing of programs. An emphasis is made on mobile app design. **Local dual credit with Motlow.**

AP Computer Science G02H44A/G02H44B

Grade: 10 – 12

Fee: \$100 (AP test cost)

Prerequisite: Algebra I

Description: AP Computer Science introduces students to the foundational concepts of computer science, and challenges them to explore how computing and technology can impact the world around them. There is a focus on creative problem solving and real-world applications. AP Computer Science prepares students for college and career. By the end of the course, students will learn basic programming skills as well as fundamental concepts about how computers and the Internet work.



Work-Based Learning Coding Practicum C10H40F/S

Grade:

Prerequisite:

Description: The IT practicum provides students the opportunity to apply and integrate computer and IT knowledge acquired through hands-on experiences within the school district and through advanced coursework. The practicum experience assists students in discovering, developing, and refining necessary competencies and skills for their proposed career objectives.

Focus of Study: Law Enforcement Service and Legal and Correctional Services

Student Organization: Skills USA

Criminal Justice I C30H00

Grades: 9 – 12

Fee: None

Prerequisite: None

Description: Criminal Justice I is the first course in Law Enforcement Service and the Legal and Correctional Services Programs of Study. It serves as a comprehensive survey of how the law enforcement, legal, and correctional systems interact with each other in the United States. Upon completion of this course, proficient students will understand the context of local, state, and federal laws, have investigative skills pertaining to basic crime scenes and incident documentation, and understand the importance of communications and professionalism in law enforcement.

Criminal Justice II C30H01 (In-person Only)

Grades: 10 – 12

Fee: None

Prerequisite: Criminal Justice I

Description: Criminal Justice II 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. Upon completion of this course, proficient students will be prepared for advanced work in crime scene analysis and forensic science and have strong knowledge and skill preparation for postsecondary or career opportunities in associated fields.

Criminal Justice III C30H02 (In-person Only)

Grades: 10 – 12

Fee: None

Prerequisite: Criminal Justice I & II



Description: Criminal Justice III is the final course designed to equip students with knowledge and skills to be successful in the science of criminal investigations. Students will learn terminology and investigation skills related to crime scenes, aspects of criminal behavior, and applications of the scientific inquiry to solve crimes. By utilizing the scientific inquiry method, students will obtain and analyze evidence through simulated crime scenes and evaluation of case studies. Upon completion of this course, proficient students will be able to identify careers in forensic science and criminology, summarize the laws that govern the application of forensic science, and draw key connections between the history of the forensic science system and the modern legal system. **Local dual credit with Motlow.**

Work-Based Learning Criminal Justice Practicum C30H27F/S

Grade: 11 & 12

Prerequisite: Criminal Justice III

Description: Criminal Justice Practicum is a capstone course in the Law Enforcement and Correction Services program of study that provides a practical experience for students as they develop an understanding of professional and ethical issues. The capstone course will be based on the knowledge and skills from previous courses in the Law Enforcement and Correction Services program of study. 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.

Statewide Dual Credit Criminal Justice II C30H11DC

Introduction to Criminal Justice (CRMJ 1010) **Grades:** 10 – 12

Fee: None

Prerequisite: Criminal Justice I and Criminal Justice II.

^May count as third course in criminal justice elective focus in lieu of CJ III.

Description: 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 postsecondary-level learning objectives. Students who meet or exceed the exam 'cut score' (70%) receive college credit that can be applied to any Tennessee public postsecondary institution. Exam scores are reported on the high school transcript to ensure postsecondary credit is accurately awarded. You are not required to major or minor in criminal justice at college to have your credit applied; this course can count as a college elective. By making a 60 on course work, students will receive high school credit. By passing course work AND achieving the 70% on the state exam, students earn their college credit. There are **NO** college fees or expenses to enroll in statewide dual credit courses. Topics include: criminal justice system overview, criminological theory, courts and law, law enforcement, corrections, and juvenile justice.



****Teacher recommendation. Suitable GPA evidencing college-level skill.****

Pre-Law I C30H08

Grades: 10 – 12

Fee: None

Prerequisite: None

Description: Pre-Law I is the first course designed to prepare students to pursue careers in the field of law. Upon completion of this course, a proficient student will be able to describe career planning and compliance, foundations of the legal system, organization of the law and public safety system, basic constitutional protections, and types of law.

Pre-Law II C30H09

Grades 10 -12

Fee: None

Prerequisite: Pre-Law I, Criminal Justice I, or teacher permission in consultation with the counseling office.

Description: Pre-Law II is the second course designed to prepare students to pursue careers in the field of law. Upon completion of this course, a proficient student will be able to describe the organization of local, national and state court systems and the legal process, explain the concepts of trials, and differentiate business, labor, and consumer law.

Pre-Law III C30H10

Grades: 10 -12

Fee: None

Prerequisite: Pre-Law I, Pre-Law II, or teacher permission in consultation with the counseling office.

Description: Pre-Law III is the third course designed to prepare students to pursue careers in the field of law. Upon completion of this course, a proficient student will be able to describe sentencing and decisions, appeals, punishment, parole, probation, detention, and family and property law. In addition, students will model the professional, moral, and ethical standards required of professionals in the field of law.

Focus of Study: Manufacturing (Advanced): Machining Technology

Student Organization: Skills USA

Principles of Manufacturing C13H05

Grades: 9 – 10

Fee: \$15

Prerequisite: Algebra I

Description: Description: Principles of Manufacturing focuses on the essential principles that must be mastered for a person to be effective in machining work. The course covers an overview of machining technology, careers in machining, safety, precision measuring equipment, blueprints and layouts. Laboratory exercises provide an active and cooperative learning opportunity.



Machining I C13H09**Grades:** 10 – 12**Fee:** \$15**Prerequisite:** Principles of Manufacturing**Description:** Description: This course focuses on the concepts and practices that support careers in Machining Technology. This course introduces and focuses on safety, precision measuring equipment, blueprints and the use of the lathe in the machine shop. Laboratory exercises provide an active and cooperative-learning opportunity.**Machining II C13H06****Grades:** 10 – 12**Fee:** \$15**Prerequisite:** Machining I, Algebra I, and Geometry**Description:** Description: This course focuses on the concepts and practices that support careers in Machining Technology. This course reinforces learning in safety, precision measuring equipment, blueprints and the lathe. This course also introduces the use of the Mill. Laboratory exercises provide an active and cooperative learning opportunity.**TCAT Dual Enrollment Machining**Mach I (Fall) C13H01TC/ Mach II (Spring) **C13H20TC****Grades:** 11-12**Fee:** \$15 plus cost not covered by the dual enrollment grant (students must have 2.0 GPA to qualify).**Prerequisite:** Principles of Manufacturing and Machining I; CTE Director approval to waive prerequisites**Description:** Yearlong course with two (2) credits. TCAT Dual Enrollment Machining is a **college-level** course taught at Tullahoma Virtual Academy by trained high-school teachers. Course learning objectives are developed by TCAT-Shelbyville in order to ensure alignment with post-secondary standards. Students will complete the two semesters of this course during their senior year of high school to complete their first trimester of clock hour requirements for the TCAT-Shelbyville Machine Tool Technology program.**Work-Based Learning Machining Practicum C13H41F/S****Grades:** 11 – 12**Fee:** \$15**Prerequisite:** Minimum of 2 credits in an Advanced Manufacturing program of study.**Description:** This capstone course is intended to provide students with the opportunity to apply the skills and knowledge learned in previous Machining courses within a professional working environment. While continuing to add to their technical skills sets, students in this course assume increasing responsibility for overseeing manufacturing processes and managing complex projects. Students will be able to work in teams to plan the production of a sophisticated product, develop troubleshooting and problem-solving mechanisms to practicum activities. For all

projects undertaken in this course, students are expected to follow the focus area in their chosen program of study (machining.)

Focus of Study: Manufacturing: Welding
Student Organization: Skills USA

Principles of Manufacturing C13H05

Grades: 9 – 10

Fee: \$15

Prerequisite: Algebra I

Description: Principles of Manufacturing focuses on the essential principles that must be mastered for a person to be effective in manufacturing production work. The course covers customers, quality principles and processes, welding, information in the workplace, and the business of manufacturing. Whenever possible, real-world or simulation hands-on experiences become the context in which instruction is delivered.

Welding I C13H12

Grades: 10 - 12

Fee: \$15

Prerequisite: Principles of Manufacturing

Description: Welding I is designed to provide students with the skills and knowledge to effectively perform cutting and welding applications used in the advanced manufacturing industry. Students enrolled in this course will develop proficiency in fundamental safety practices in welding, interpreting drawings, creating computer aided drawings, identifying and using joint designs, efficiently laying out parts for fabrication, basic shielded metal arc welding (SMAW), mechanical and thermal properties of metals, and quality control.

Welding II C13H10

Grades: 11 - 12

Fee: \$15

Prerequisite: Welding I

Description: Welding II is designed to provide students with opportunities to effectively perform cutting and welding applications of increasing complexity used in the advanced manufacturing industry. Proficient students in this course will build on the knowledge and skills of the Welding I course and apply them in novel environments, while learning additional welding techniques not covered in the previous course. Specifically, students will be proficient in 1) fundamental safety practices in welding, 2) gas metal arc welding (GMAW), 3) flux cored arc welding (FCAW), 4) gas tungsten arc welding (GTAW), and 5) quality control methods.

Work-Based Learning Welding Practicum C13H43F/S

Grades: 11 – 12

Fee: \$15

Prerequisite: Minimum of two credits in an Advanced Manufacturing program of study.

Description: This capstone course is intended to provide students with the opportunity to apply the skills and knowledge learned in previous Advanced Manufacturing courses within a



professional, working environment. While continuing to add to their technical skill sets, students in this course assume increasing responsibility for overseeing manufacturing processes and managing complex projects. Students will be able to work in teams to plan the production of a sophisticated product, develop troubleshooting and problem solving mechanisms to practicum activities. For all projects undertaken in this course students are expected to follow the focus area in their chosen program of study (Machining or Welding).

TCAT Dual Enrollment Welding

Welding I (Fall) C13H03TC/Welding II (Spring) **C13H18TC**

Grades: 11-12

Fee: \$15 plus cost not covered by the dual enrollment grant (students must have 2.0 GPA to qualify).

Prerequisite: Principles of Manufacturing and Welding I; CTE Director approval to waive prerequisites

Description: Yearlong course with two (2) credits. TCAT Dual Enrollment Welding is a college-level course taught at Tullahoma Virtual Academy by trained high-school teachers. Course learning objectives are developed by TCAT-Shelbyville in order to ensure alignment with post-secondary standards. Students will complete the two semesters of this course during their senior year of high school to complete their first trimester of clock hour requirements for the TCAT-Shelbyville welding program.

Focus of Study: Marketing Management & Entrepreneurship

Student Organization: DECA

Intro to Business and Marketing C12H26

Grade: 9 – 12

Fee: None

Prerequisite: None

Description: Introduction to Business and Marketing is an introductory course designed to give students an overview of the business Management and Administration, Marketing and Finance career clusters. The 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. Students' academic skills in communications, mathematics, and economics are reinforced with activities.

Marketing and Management I C31H00

Grade: 10 - 12

Fee: None

Prerequisite: Marketing I

Description: Principles focus on the study of marketing concepts and their practical applications. Students will examine the risks and challenges that marketers face to establish a competitive edge in the sale of products and services. Topics covered include foundational marketing functions such as promotion, distribution, and selling as well as coverage of economic



fundamentals, international marketing, and career development. Students may also receive economics credit for this course. **Local dual credit with Motlow.**

Marketing and Management II C31H01

Grade: 10 - 12

Fee: None

Prerequisite: Marketing and Management I

Description: Advanced strategies are a study of marketing concepts and principles used in management. Students will examine the challenges, responsibilities, and risks managers face in today's workplace. Subject matter includes finance, business ownership, risk management, marketing information systems, purchasing, promotion, and human resource skills.

Advertising and Public Relations C31H03

Grade: 11 – 12

Fee: None

Prerequisite: Marketing and Management II

Description: This course focuses on the concepts and strategies associated with promoting products, services, ideas and events. This applied knowledge course addresses skills essential to the creative side of the industry and explores consumer behavior patterns and motivations for buying. Students will demonstrate proficiency in fundamental advertising and public relations concepts by creating an electronic portfolio of representative course projects demonstrating a progressive level of skills and knowledge.

(SDC) Statewide Dual Credit Course–College Credit Available C31H27

Principles of Marketing

Grades 11-12

Fee: None

Prerequisite: Marketing I credit, English I and English II credit, and must be 11th or 12th grade student.

Description: College-level introductory marketing course provides an introduction to the marketing field. Topics may include marketing in organizations, management, marketing, marketing ethics, marketing research, consumer behaviors and marketing careers. This course is on the AP five-point scale for GPA purposes and four points are added to the final semester grade. Students are required to take the statewide challenge exam at the conclusion of the term (75 multiple choice questions plus a marketing plan). Students passing the challenge exam with a 70 or greater will receive college credit in principles of marketing at public Tennessee colleges and universities.

Work-Based Learning: Marketing Practicum C31H28F/S

Grade: 11-12

Fee: None

Prerequisite: Two to three credits in a Business or Marketing program of study. Three credits required if employment does not relate to a student's program of study.



Description: Work-Based Learning is intended to provide students with opportunities to apply the skills and knowledge learned in career and technical and general education courses with a professional work environment. Students will attend approximately 10 days in the classroom at the beginning of the semester for instruction and paperwork completion. Requirements: Medical insurance, self-transportation, drivers license, and vehicle insurance. Employed by an approved employer or internship position for at least 7 (seven) hours per week and one class period per week for classroom instructional time.

Programs of Study: All

Focus of Study: STEM

Student Organization: Skills USA

STEM I Honors C21H15H

Grade: 10 - 12

Fee: \$20

Prerequisite: None

Description: STEM I: Foundations is a foundational course in the STEM cluster for students interested in learning more about careers in science, technology, engineering and mathematics. This course covers basic skills required for STEM fields of study. Upon completion of this course, proficient students are able to identify and explain the steps in both the engineering design and the scientific inquiry processes. They conduct research to develop meaningful questions, define simple problem scenarios and scientific investigations, develop fundamental design solutions, conduct basic mathematical modeling and data analysis, and effectively communicate solutions and scientific explanations to others.

STEM II Applications Honors: C21H16H

Grade: 10 - 12

Fee: \$20

Prerequisite: STEM I: Foundations

Description: STEM II: Applications is a project-based learning experience for students who wish to further explore the dynamic range of STEM fields introduced in STEM I: Foundations. Building on the content and critical thinking frameworks of STEM I, this course asks students to apply the scientific inquiry and engineering design processes to a course-long project selected by the instructor with the help of student input. Upon completion of this course, proficient students will have a thorough understanding of how scientists and engineers research problems and methodically apply STEM knowledge and skills; and they will be able to present and defend a scientific explanation and/or an engineering design solution to comprehensive STEM-related scenarios.

STEM III: STEM in Context C21H17H

Grade: 10 – 12

Fee: \$15



Prerequisite: STEM I & STEM II

Description: STEM III: STEM in Context is an applied course in the STEM career cluster which allows students to work in groups to solve a problem or answer a scientific question drawn from real-world scenarios within their schools or communities. This course builds on STEM I: Foundation and STEM II: Applications by applying scientific and engineering knowledge and skills to a team project. Upon completion of this course proficient students will be able to effectively use skills such as project management, team communication, leadership, and decision making. They will also be able to effectively transfer the teamwork skills from the classroom to a work setting.

Focus of Study: Transition

Transition IA/IB S25X28T1A/B

Grade: 10-11

Prerequisite: IEP, Completing Parent Permission for Pre-ETS Services

Description: Introduction to Self-Determination is the first class in a series of three that students may complete to fulfill transition as a course of study. This elective course provides students with knowledge regarding legal rights of individuals with a disability and how to advocate for themselves in their school, at work, and in other community settings. Lessons will focus on choice and decision making, problem solving, self-advocacy, self-management and other aspects of self-determination. Students are given the opportunity to apply learned skills in a community work setting and when time allows, to explore occupations in an authentic way. This is a one semester class, but may be year long as needed and determined in a student's IEP meeting. All students enrolled in Transition classes must complete a parent permission form to become a Pre-Employment Transition Services client. This step will be explained in more detail at an IEP meeting.

Transition IIA/IIB S25H03T2A/B

Grade: 11-12

Prerequisite: IEP

Description: Focus on Adulthood is designed to equip students with the knowledge and skills necessary to transition into postsecondary community involvement and independent living. Through a series of in-class and out-of-class activities, students will refine their self-awareness through a discovery process and then learn about relevant community supports and how to access them. Students are given the opportunity to apply learned skills in a community work setting and to explore occupations in an authentic way. This is a one semester class, but may be year long as needed and determined in a student's IEP meeting. All students enrolled in Transition classes must complete a parent permission form to become a Pre-Employment Transition Services client. This step will be explained in more detail by transition teachers.

Transition IIIA/IIIB & Work Based Learning S25H04T3A/B

Grade: 11-12



Prerequisite: IEP

Description: Planning for Postsecondary is designed to provide opportunities for students to finalize their postsecondary transition plans and develop concrete steps necessary to transition seamlessly into postsecondary, including being an active participant in developing a summary of performance. Authentic work experience is provided to students as appropriate including job shadowing. Students are given the opportunity for employment if requirements are met. This is a one semester class, but it is highly recommended as year long if scheduling allows. This will be determined at the IEP meeting. All students enrolled in Transition classes must complete a parent permission form to become a Pre-Employment Transition Services client. This step will be explained in more detail by Transition teachers

Program of Study:

Marine Corps Junior Reserve Officer Training Corps (MCJROTC)

CTE Program of Study: Leadership in Government

Program Description. The MCJROTC Program is a great opportunity for young adults to excel. MCJROTC is at its essence a Leadership Education Program meant solely to develop character and citizenship. Although a comprehensive learning environment anchored in a military structure is not for all students, there is a body of defensible academic knowledge that clearly articulates the significant benefit to those that choose to participate. The MCJROTC curriculum is nationally accredited under Commission on International and Trans-Regional Accreditation/ Southern Association of Colleges and Schools Commission on Accreditation and School Improvement (CITA/SACS) and is directly linked to National Standards.

Since its inception in 1916, the MCJROTC program has been viewed as a strong program that provides youth with much-needed skills in citizenship and leadership. Additionally, numerous studies have shown that students who participate in JROTC programs have better attendance, grades, and graduation rates relative to students who were in general academic programs. Principals and school administrators also maintain positive attitudes toward MCJROTC because this course of instruction:

- **Motivates** students to learn.

- **Fosters** a disciplined and constructive learning environment.

- **Instills** essential skills like time organization, responsibility, goal setting, and teamwork.

The effects of the Marine Corps JROTC program reach far beyond the classroom and into the community in developing character, leadership, and civic responsibility in tens of thousands of America's kids. Marine Corps JROTC at its essence is a character education program. The program keeps students in school, helps them find their way during the turbulent teenage years, and assists them in becoming productive members of our community. Our program produces young men and women who are ready to accept the responsibilities as well as the privileges of citizenship. We are rightfully proud of our contribution to America's future and thankful for the dedicated instructors, staff, school administrators, and communities whose hard work and commitment make the program's success possible.



The MCJROTC Program focuses on five academic categories: Leadership, Citizenship, Personal Growth and Responsibility, Public Service, and General Military Subjects. The intent of this course is to develop leadership, build character, and create informed, patriotic, and responsible citizens. It is also to cultivate responsible young adults who are physically, mentally, and morally fit; develop informed and civic-minded young adults prepared for higher education, civilian careers, and public service; and instill discipline, respect, and responsibility through military related subjects and activities.

The progression of education is as follows:

- Leadership Education I – Primarily Freshmen, Entry Level**
- Leadership Education II - Primarily Sophomores, Advanced Level**
- Leadership Education III - Primarily Juniors, Masters Level**
- Leadership Education IV – Primarily Seniors, Graduate Level**

Leadership Education (LE) I G08H04A/G08H04B

Grade: 9-11

Fee: Varies throughout the year

Prerequisite: None

Description: This is the entry level course for the MCJROTC Program and is designed to provide the student with a broad overview of the five academic categories taught in JROTC: Leadership, Citizenship, Personal Growth and Responsibility, Public Service, and General Military Subjects. The intent of this course is to develop leadership, build character, and create informed, patriotic, and responsible citizens. It is also to cultivate responsible young adults who are physically, mentally, and morally fit; develop informed and civic-minded young adults prepared for higher education, civilian careers, public service; and instill discipline, respect, and responsibility through military related subjects and activities. The LE I (A) course will be taught during the Fall Semester and LE I (B) during the Spring Semester. LE I – IV classes are designed to be a yearlong course. Senior/Junior students desiring to enroll in the JROTC program for the first time will be admitted on a case-by-case basis after a personal interview by the JROTC staff.

Leadership Education (LE) II G08H05A / G08H05B

Grade: 10-12

Fee: Varies throughout the year

Prerequisite: LE I (Can be waived with Principal, Counselor and Instructor approval).

Description: This course takes the JROTC Cadet into a more detailed and focused examination of leadership and General Military subjects. The majority of class time is spent on the teaching and application of military skills as they relate to leadership, teamwork, discipline, and self-confidence. The focus of General Military subjects is Advanced Close Order Drill, Marksmanship, Physical Training, and Military History.

Leadership Education (LE) II Honors G08H05AH / G08H05BH

Grade: 10-12

Fee: Varies throughout the year



Prerequisite: LE I, Must be approved by ROTC staff.

Description: In addition to the regular curriculum, the JROTC faculty will assist students enrolled in the Honors section in designing a program of independent study that may include research projects, community service, participation in JROTC extracurricular activities, advanced peer leadership, and organizing and executing special events/programs.

Leadership Education (LE) III G08H06A / G08H06B

Grade: 11-12

Fee: Varies throughout the year

Prerequisite: LE II, Must be approved by ROTC staff.

Description: This advanced course is based on the foundational courses LE I and LE II. In this course the JROTC cadet will study advanced subjects in all five JROTC academic categories. In addition to continued examination of subjects begun in LE II, cadets will also be taught the military legal system, Army and Air Force organizations, military career studies, personal finance, public speaking, and the national defense roles of the Executive and Legislative branches of the federal government. Admission into the LE III course of study will be based on successful completion of LE II course of study and recommendations by the ROTC staff.

Leadership Education III Honors G08H06AH/G08H06BH

Grade: 11-12

Fee: Varies throughout the year

Prerequisite: LE II. (Can be waived with Principal, Counselor and Instructor approval).

Description: In addition to the regular curriculum, the JROTC faculty will assist students enrolled in the Honors Section in designing a program of independent study that may include research projects, community service, participation in JROTC extracurricular activities, advanced peer leadership, and organization and execution of special events/programs. Independent study projects will encompass detailed research and analysis of specific military historical events and the biography of key military leaders. This level of JROTC also includes financial planning/management through the use of personal finance for young adults. Prior to graduation the student will be required to pass a citizenship exam.

Leadership Education IV G08H07A/G08H07B

Grade: 12-12

Fee: Varies throughout the year

Prerequisite: LE III. (Can be waived with Principal, Counselor and Instructor approval).

Description: This course is the capstone course of the JROTC program and is designed for the most serious student of the Military Arts and Sciences. This course is primarily practical application, with 126-180 hours dedicated to this methodology. Students will explore, in depth, the military legal system, orientation, Marine Corps organization for war, advanced military history studies, and other subjects under all five categories of the LE curriculum. Admission into LE IV course of study will be based on successful completion of LE III course of study and recommendation by the ROTC staff.

Leadership Education IV Honors G08H07AH/G08H07BH



Grade: 12-12

Fee: Varies throughout the year

Prerequisite: LE III. (Can be waived with Principal, Counselor and Instructor approval).

Description: In addition to the regular curriculum, the JROTC faculty will assist students enrolled in the Honors Section in designing a program of independent study that may include research projects, community service, participation in JROTC extracurricular activities, advanced peer leadership, and organizing and executing special events/programs. Independent study projects will encompass detailed research and analysis of military history and biography. The level of JROTC focuses primarily on leadership development preparing the student for life challenges beyond high school. Prior to graduation the student will be required to pass a citizenship exam.

The following are advantages and prospects available by being in the MCJROTC Program:

- Scholarship opportunities (Academy, ROTC, Other)
- Promotion/advancement upon boot camp graduation (Service dependent)
- Confidence and leadership
- Pride in being part of a program
- Help the community and teamwork
- Learn to mentor subordinates

The following are additional activities available by being in the MCJROTC Program:

- Drill Team (Competitions, Regional)
- Color Guard (School, Community, State)
- Air Rifle Team (Civilian Marksmanship Program)
- CyberPatriot Team (STEM)
- Community Service
- FundRaising Activities
- Leadership Camps
- Adventure/Fun Outings

Electives:

These elective courses will be available to students but do not fall into any particular program of study.

Driver Education Training G08H03

Grade: 9-12

Prerequisite: Students must be 15 years of age. Priority will be given to students who have acquired a Tennessee Learners Permit.

Description: Driver Education is a class available to students who are at least 15 years old prior to beginning the course in grades 9-12. The instructional phases consist of classroom, simulation,



driving range, and on-street driving instruction. The course will be taught as a one-credit course with sufficient instructional contact time with the driver education teacher and the inclusion of safety education. Although not required, students with learner permits will be given priority in selecting this course as an elective credit course. This course will be graded as a pass/fail course and will not be calculated into the student's GPA.

Career Prep C25H19

Grade: 9-12

Prerequisite: None

Description: Preparing for the ACT, Postsecondary, and Career is designed to assist student in (a) understanding what the ACT is, why it is important for their postsecondary readiness, (b) preparing for the ACT exam through instruction, practice, and familiarity with the structure and format of the ACT exam, (c) best practices for maximizing one's score (e.g. "test tips", strategies for dealing with test anxiety, benefits of retaking the exam), (d) discovering their personal strengths and abilities, (e) understanding opportunities available to them in different career areas, and (f) practicing skills necessary to excel in the workforce and in postsecondary learning.

Service Learning - Student Aide (Fall/Spring) C25H15SAF/C25H15SAS

Grade: 12

Prerequisite: None

Description: Service-Learning is designed to place students in new situations where they apply their academic, technical, and social skills to serve others. Upon completion of this course, students will be able to structure an unstructured or ambiguous problem, connect personal development with academic attainment, and demonstrate citizenship and leadership skills. Students will also understand how their service-learning experiences fulfill an authentic need in the community and develop a portfolio of work that documents their discovery process and growth.

Service-learning is considered one of the many forms of work-based learning (WBL) in Tennessee. As such, service-learning experiences must comply with the Work-Based Learning Framework guidelines established in SBE High School Policy 2.103.

