

MT. JULIET HIGH SCHOOL

2019–2020

Program of Studies

Grades 9–12



Foreword

The Wilson County Schools operate under a Student/Parent Informed Choice System or open registration. Parents/guardians and students should carefully study the registration/curriculum catalog and review the course listings and graduation requirements. Parents/guardians and students should discuss the student's goals, interests, past school grades, performance on standardized tests, personal habits, attitude toward school, aptitudes, responsibilities outside the school, and other factors which may have an impact on the success of the student in a given course.

The guidance department of the school will, individually or in small groups, make available registration counseling services. Students are encouraged to take advantage of these services. In addition, the guidance department is open for appointments with parents who wish further individualized service.

Students are encouraged to register for courses that provide the highest academic challenge to their abilities. It is the responsibility of the parents and teachers to offer positive guidance and direction in helping a student establish goals and make realistic choices. These goals and choices must be commensurate with the student's ability, interests, and background preparation. Students should consider local and state educational requirements for graduation and the requirements for admissions to post-secondary opportunities.

The information contained in this publication is intended to be used as a guide in the selection of high school courses. Students should discuss this information with parents and teachers. If there are any questions concerning any aspect of registration, students and/or parents are invited to discuss the situation with the school counselors or principals.

Public Notice

The Wilson County School System does not discriminate due to age, race, color, gender, national origin, disability, religion, creed, or veteran status in the provision of services, in programs or activities, or in employment opportunities or benefits. Inquiries concerning Title VI or Title IX of the Civil Rights Act should be directed to Chuck Whitlock at (615) 444-3282. Inquiries concerning Section 504 should be directed to Dawn Bradley at (615) 444-3282 ext. 7288. Inquiries concerning the American with Disabilities Act should be directed to Mickey Hall at (615)444-3282.

Planning the Educational Program for the Future

There are several factors a student must consider when planning an educational program. First, there are minimum course requirements prescribed for all students in order to graduate. These are located on the next few pages. Second, students should select courses for their four-year plan that align with their potential post-secondary educational opportunities and career interests. Third, students should consider enrichment or exploratory courses to deepen their learning in areas of interest. There are many on whom students can rely in making wise course selections: parents, teachers, counselors, and community professionals. Planning is a continuous process; therefore, students will annually review their educational program with their high school counselor.

Business and industry leaders throughout the nation seek employees who can communicate effectively, solve problems, and think and reason skillfully. They demand a better prepared workforce that has the technical, academic, and soft skills to effectively get the job done. Economic growth and development depend on educated citizens. To be successful in the 21st century and obtain jobs with sustainable incomes, our students must pursue post-secondary training. Therefore, **we have made a commitment to strengthen what is already a strong academic program to ready students for their post-graduation opportunities.** We want students to set goals before they enter as freshmen and revisit these goals every year to ensure they are taking the best possible program to prepare them for their post-secondary pursuits.

Career counseling is a major component in providing comprehensive counseling services to our students. Students will develop a four-year school plan and will be counseled to select a course of study in which they have the interest, aptitudes, and abilities. They will select their course of study at the end of the eighth grade but will have the option to change their program at the **end of each academic year** as long as they meet the minimum requirements and have parental approval.

CREDIT REQUIREMENTS

Following the implementation of the Tennessee Diploma Project in 2009, high school students must complete 26 credits to graduate. The required credits are listed below.

Math	4 Courses	Algebra I, Algebra II, Geometry and a fourth higher level math course. (Students must be enrolled in a mathematics course each school year.)
English	4 Courses	English I, English II, English III and English IV
Science	3 Courses	Biology , Chemistry or Physics, and a third lab course
Social Studies	4 Courses	World History and Geography or AP Human Geography, U.S. History and Geography, Economics, and U.S. Government and Civics
Wellness	1 Course	
Physical Education	1 Course	
Personal Finance	1 Course	
World Language	2 Courses	Two credits must be in same language
Fine Arts	1 Course	
Elective Credits	2 courses	
Elective Focus*	3 credits	Three (3) credits must be earned in one of the programs of study listed below. These credits are in addition to the required credits for graduation. -Math and Science -Humanities/Fine Arts -Career and Technical Education (CTE) -JROTC* -Advanced Placement
ACT		Must take ACT for graduation requirement
U.S. Civics Test		Must take the U.S. Civics test for graduation requirement

*In order to receive an elective focus in JROTC students must complete 4 credits of JROTC.

Allowable Substitutions

Career and Technical (CTE): Certain CTE courses may be used to fulfill the 0.5 credit requirement in Economics and Government and Politics provided the teacher meets the requirements as set out in federal and state guidelines.

JROTC: Successful completion of JROTC 1 & 2 may substitute for one credit of Lifetime Wellness. Successful completion of JROTC 1-3 may fulfill the Lifetime Wellness credit and U.S. Government credit provided the teacher meets the requirements set out in federal and state requirements. Successful completion of JROTC 1-4 may fulfill a credit in Lifetime Wellness, U.S. Government, and PE. Successful completion of JROTC 1-5 may fulfill a credit in Lifetime Wellness, U.S. Government, PE, and Personal Finance.

Substitutions	Course Replacing	Number of Credits for Elective Focus
JROTC 1 & 2	Wellness	5 Credits in JROTC
JROTC 1- 3	US Government	6 Credits in JROTC
JROTC 1- 4	PE	7 Credits in JROTC
JROTC 1- 5	Personal Finance	8 Credits in JROTC
No substitutions		3 Credits in JROTC

Physical Education: The Physical Education (1 course) requirement may be met by substituting 40 hours of documented physical activity in one of the following: any TSSAA recognized sport, cheerleading, dance squad, marching band.

ELECTIVE FOCUS GUIDELINES

An Elective Focus* is a focused program of study. Three (3) credits must be earned in one of the programs of study listed below. These 3 credits are **in addition** to the required credits for graduation.

The Elective Focus areas are:

1. Math / Science

This includes any Math or Science class above and beyond the seven (7) required Math and Science courses for graduation. A student must earn a minimum of 10 (ten) credits in Math / Science to have a Math / Science Elective Focus.

2. Humanities and Fine Arts

This includes any Social Studies, English, World Language, music, band, chorus, theatre, art, or dance class above and beyond the one (1) Fine Arts credit required for graduation, the (4) required English courses for graduation, the (4) required Social Studies courses for graduation, and the (2) required World Language courses for graduation.

3. JROTC

Successful completion of 8 credits of JROTC will fulfill the Lifetime Wellness, Physical Education, Personal Finance, and U.S. Government requirements along with the elective focus requirement.

4. CTE

This includes three courses in the same CTE Focus Area.

- Agriculture, Food, & Natural Resources
- Architecture & Construction
- Arts, Audiovisual Technology, and Communications
- Business Management & Administration, Finance, Marketing
- Education & Training
- Health Science
- Human Services
- Information Technology
- Law, Public Safety, Corrections, & Security
- Science, Technology, Engineering, & Mathematics (STEM)

5. Advanced Placement

In order to achieve an Elective Focus in Advanced Placement, students must take at least three Advanced Placement courses **and complete the three Advanced Placement Tests for those courses.**

STATE ASSESSMENTS

Although students are not required to pass the end of course assessments in order to graduate, these assessments are linked to the student's final grade for the course per the State Department of Education.

Assessments are linked to the following courses:

- English I
- English II
- Algebra I
- Algebra II
- Geometry
- Biology
- US History and Geography

In addition, all 11th grade students will be required to take the ACT test.

A civics test is required for graduation but there is not a passing score requirement.

10th Grade Interest Inventory requirement.

GRADUATING WITH HONORS OR DISTINCTION

Graduation with Honors

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. The ACT benchmarks are as follows:

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

Graduation with Distinction

Students will be recognized as graduating with “distinction” by attaining a B (3.0 cumulative GPA or above) 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 Semi-finalist
- 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
- Earn 12 or more semester hours of college credit as indicated on high school transcript
- Earn State-wide recognition or award at a skill or knowledge based state tournament, convention, or competition hosted by a statewide student organization, and/or qualify for national recognition by a national student organization.

*Students graduating with a gold or platinum medal on National Career Readiness Certificate (WorkKeys) shall be recognized

*Students who voluntarily complete at least ten (10) hours of community service each semester the student is in attendance at a public high school shall be recognized.

Work Ethic Distinction

The Work Ethic Distinction is a workforce readiness credential that can be earned by high school seniors in Wilson County and other participating counties. Students who earn the Work Ethic Diploma will be recognized at graduation and will be given preference for job interviews with partnering employers if the graduate meets all other qualifications of the job posting. Students who sign up for the Work Ethic Distinction must complete enough of the goals set out in the achievement categories to score 20 points in order to receive the diploma distinction. For seniors who are interested, information will be available in their guidance offices.

Wilson County Schools Gold Work Ethics Certificate

A. Attendance Standard

- (1 pt.) Student has no more than 5 absences from school during senior year.
- (2 pts.) Student has no more than 3 absences from school during the senior year.
- (3 pts.) Student has no more than 1 absence from school during the senior year.

B. Absence Standard

- (1 pt.) Student has no more than one unexcused absence from school during the senior year.
- (2 pts.) Student has no unexcused absence from school during the senior year.

C. Tardiness Standard

- (1 pt.) Student has no more than two unexcused tardies to school during the senior year.
- (2 pts.) Student has no more than one unexcused tardy to school during the senior year.

D. Discipline Standard

- (1 pt.) Student has no more than one discipline referral during the senior year.
- (2 pt.) Student has no discipline referrals during the senior year.

E. Overall Grade Point Average Standard

- (1 pt.) Student has an overall GPA of 2.0 to 2.9.
- (2 pts.) Student has an overall GPA of 3.0 to 3.4.
- (3 pts.) Student has an overall GPA of 3.5 or above.

F. Drug Free Standard

- (5 pts.) Student voluntarily presents written proof as being drug free.

G. CTE Coursework Standard

- (1 pt.) Student has successfully completed at least one CTE Course by the end of the senior year.
- (2 pts.) Student has successfully completed two CTE courses by the end of the senior year.
- (3 pts.) Student has successfully completed three or more CTE courses by the end of the senior year.

H. CTE Competition Standard

- (1 pt.) Student has competed in an approved regional level CTE competition during the senior year.
- (2 pts.) Student has competed in an approved state level CTE competition during the senior year.

(3 pts.) Student has competed in an approved national level CTE competition during the senior year.

I. TN Promise Standard

(2 pts.) Student is in good standing with TN Promise and has completed the required 8 hours of community service.

J. Dual Enrollment/Credit Standard

(2 pts.) Student has successfully completed a dual enrollment or dual credit CTE course at one of the participating post-secondary institutions during or before their senior year.

K. Industry Certification Standard

(2 pts.) Student has received a national industry certification during or before the senior year.

L. Enrollment in Post-Secondary Standard

(2 pts.) Student is registered or has applied at a post-secondary institution for the fall of the graduating year.

M. Industry Awareness Standard

(1 pt.) Student has participated in one industry awareness event during the senior year.

(2 pts.) Student has participated in more than one industry awareness event during the senior year.

(3 pts.) Student has participated in an internship or work based learning activity.

***To receive a Gold Work Ethic Certificate a student must earn a minimum of 20 points of which 5 points must be from Standard "F" (Drug free).**

***To receive a Silver Work Ethic Certificate, a student must earn a minimum of 20 points.**

GRADUATION CEREMONY

In order to participate in the commencement exercises (graduation), a student must fulfill all graduation requirements as stipulated by the Tennessee Department of Education and the Wilson County Board of Education. Any student who is a senior and has not completed the assignment time at MAP five days before the end of the school year may not participate in the graduation ceremony. If all academic work has been completed that will allow them to graduate, then the student can pick up the diploma on the first school day after graduation.

GRADING SCALE

The following statewide grading scale is used in all classes:

A = 93-100 B = 85-92 C = 75-84 D = 70-74 F = Below 70

In addition, weighted grades will be calculated per Board Policy 4.600.

Hope Scholarship

Assigning quality points above a 4.0 for any course(s) is not allowed for the purpose of determining eligibility for the lottery (HOPE) scholarship.

PRINCIPAL'S LIST/HONOR ROLL

To be eligible for either the Principal's List or Honor Roll, a student must be enrolled in a minimum of six (6) credits. To be eligible for the Principal's List, students must have A's in all subjects. To be eligible for the honor roll, a student must have no grade below a B and at least one A.

Class Ranking / Latin Honors Designation

To be eligible for either Valedictorian or Salutatorian, students who enrolled as ninth graders in 2018 and thereafter must meet the criteria as outlined in Board Policy 4.602. Students who enrolled in ninth grade prior to 2018 have been grandfathered into the class rank system.

Seal of Biliteracy

In addition to completing requirements for English, students who attain high level of proficiency in speaking, reading, and writing in one (1) or more languages must meet the following criteria:

-Complete all English language arts requirements for graduation with an overall grade point average of 3.0 or higher in those classes;. -Score at the advanced, on-track, or mastered level on each English language arts End of Course assessment taken (excluding End of -Course assessments taken during the student's final semester prior to early graduation);

-Achieve a passing score on a nationally recognized foreign language proficiency assessment. If a nationally recognized foreign language assessment is not available, LEAs may develop other appropriate methods for students to demonstrate proficiency, such as through a portfolio. Any alternate model must address communication, cultures, connections, comparisons, and communities.

TriStar Scholar

A student who earns a composite score of nineteen (19) or higher on the ACT, or an equivalent score on the SAT, and earns a capstone industry certification as promoted by the Department of Education, shall be recognized as a Tennessee Tri-Star Scholar upon graduation from high school.

Early Graduation

A student who meets all graduation requirements as established by the State of Tennessee and the Wilson County School Board may graduate early (fewer than eight (8) terms in attendance) by meeting the guidelines for early exit to post-secondary or early exit through hardship. Board Policy 4.2031.

Credit Recovery

Credit recovery is an option for high school students in the Wilson County School System. Admission to, and removal from, credit recovery programs may include, but not be limited to, attendance, discipline, availability of coursework, availability of space, appropriate progress, and grades. Board Policy 4.606.

In order for a student to be eligible to enter credit recovery, the following is required:

1. The student's parent and/or legal guardian gives written consent for the student to enroll in the proposed credit recovery course(s).
2. The student has previously taken an initial, non-credit recovery section of the proposed course and received a grade of not less than 50%. Students who receive a grade of below 50% in the non-credit recovery section of the course must re-take the course.

If a student is seeking to recover credit for the first semester of a two semester course, the student may not receive full credit for the course until they have enrolled in and passed the second semester of the course and taken the end-of-course (EOC) examination.

Move on When Ready

In order to meet the Move on When Ready Act criteria, an eligible student must fulfill each of the following requirements:

1. Earn 18 credits
 - a. English I, II, III, and IV
 - b. Algebra I and II*

- c. Geometry*
 - d. United States History
 - e. Two (2) courses in the same foreign language
 - f. One (1) course selected from the following: i. Economics ii. Government iii. World Civilizations iv. World Geography
 - g. One (1) course selected from the following: i. History and appreciation of visual and performing arts ii. A standards-based arts course, which may include studio art, band, chorus, dance, or other performing art
 - h. Health and Physical Education (Wellness)
 - i. Biology
 - j. Chemistry
2. Have a cumulative GPA of at least a 3.2 on the Uniform Grading System four (4) point scale;
 3. Score at the On-Track or Mastered level on each end-of-course assessment taken (excluding end-of-course assessments taken during the student's final semester prior to early graduation);
 4. Meets benchmark scores of twenty-one (21) or higher on the ACT or an equivalent score on the SAT;
 5. Achieve a passing score on a nationally recognized language proficiency assessment; and
 6. Complete two (2) early postsecondary courses.
- Tennessee State Board of Education Policy 2.103(1)(e)

ACADEMIC PROGRAMS

Honors Courses

Honors level courses substantially exceed the content standards, learning expectations, and performance indicators of standard courses. Teachers of honors courses model instructional approaches that facilitate maximum interchange of ideas among students: independent study, self-directed research and learning, and appropriate use of technology. All honors courses include multiple assessments exemplifying coursework (such as short answer, constructed-response prompts, performance-based tasks, open-ended questions, essays, original or creative interpretations, authentic products, portfolios, and analytical writing). Additionally, an honors course includes a minimum of five of the following components:

- ✓ Extended reading assignments that connect with the specified curriculum;
- ✓ Research-based writing assignments that address and extend the course curriculum;
- ✓ Projects that apply course curriculum to relevant or real-world situations;
- ✓ Open-ended investigations in which the student selects the questions and designs the research;
- ✓ Writing assignments that demonstrate a variety of modes, purposes, and styles;
- ✓ Integration of appropriate technology into the course of study;
- ✓ Deeper exploration of the culture, values, and history of the discipline;
- ✓ Extensive opportunities for problem-solving experiences through imagination, critical analysis, and appreciation; and
- ✓ Job shadowing experiences with presentations that connect class study to the world of work.

To enroll in an honors course, students should have records of high achievement. For honors courses, teachers add three points to each reporting period as well as to any semester exam or other grade used to determine the semester average. The grade points are weighted by adding 0.5 quality points.

Pre-Advanced Placement Courses

Pre-Advanced Placement courses are academically advanced courses designed to challenge motivated students to research and understand rigorous content and think, speak, and write critically and effectively about that content. Pre-AP coursework requires students to engage in more independent analytical reading and writing assignments, both inside and outside of the classroom. Pre-AP courses are designed to prepare students for success in subsequent Advanced Placement courses. Any student who has fulfilled course prerequisites as listed in program guide may enroll in Pre-AP courses. To enroll in Pre-AP courses, students should have records of high achievement, be highly motivated, and have a strong work ethic. For Pre-AP courses, teachers add three points to each reporting period as well as to any semester exam or other grade used to determine the semester average. In addition, grade points are weighted by adding 0.5 quality points.

Advanced Placement Programs

Advanced Placement is an academic program of college-level courses and examinations for secondary school students. The College Board sponsors the Advanced Placement (AP) Program. Participation is offered to all secondary schools. The AP Program gives students the opportunity to pursue college-level studies while still in high school and possibly to receive college credit. Over 1,200 colleges and universities in the nation offer Advanced Placement and/or specific college credit to AP students who earn a set score on the AP examination.

The curriculum of an AP course is challenging and requires more effort and work on the part of the student than does a standard or honors high school course. Advanced Placement courses allow students to deepen their critical thinking, problem solving, and communication skills in college-level subjects of study.

Those enrolled in AP classes will take the AP Exam. The registration fee for AP exams is \$94.00 per exam. The school shall provide some help for students with financial problems through The College Board waiver procedures.

For AP courses, teachers add five points to each reporting period as well as to any semester exam or other grade used to determine the semester average. The grade points are weighted by adding 1.0 quality points.

Dual Enrollment Courses

Dual enrollment courses may be completed through a college or university. Students who complete and pass the course(s) may earn high school and college credit. Students are responsible for seeking admission to the college or university and for payment of college tuition. **It is the responsibility of the student to verify that the credit will be accepted at the university they plan to attend.**

Open to grades 11 and 12

Prerequisites: Grade point of 3.0 in the subject area of enrollment
 A minimum ACT composite score of 19 and an ACT score of 19 on the appropriate subtest (The college/university may require higher scores.).
 Appropriate course prerequisites

- Students are required to purchase all required textbooks
- Weighted grades will be awarded in accordance to Board Policy 4.600.
- Students choosing to take a college course during the school day at their home school, or other site, may do so with the approval of the principal.

DUAL ENROLLMENT WITH CUMBERLAND UNIVERSITY	
LIVE INSTRUCTION - Provided on Cumberland University Campus	
4029DC	DE Psychology
4027DC	DE Sociology
4033DC	DE US History I
4034DC	DE US History II
4040DC	DE English Comp 2
4039DC	DE English Comp 1
4012DC	DE College Algebra
4013DC	DE Statistics for Behavioral Sciences
**	Other courses available after all Graduation Requirements have been met.
DUAL ENROLLMENT WITH VOLUNTEER STATE COMMUNITY COLLEGE	
LIVE INSTRUCTION - VSCC Professor comes to MJHS Campus	
4012VL	DE Algebra VL (Hybrid, only available 5th block)
4029VL	DE Psychology VL
4022VL	DE Speech Communication VL
4039VL	DE English Comp 1VL
4040VL	DE English Comp 2VL
**	Other courses available after all Graduation Requirements have been met.
ONLINE COURSES through VSCC	

4013DE	DE Statistics
4021DE	DE Music Appreciation
4027DE	DE Sociology
4033DE	DE Survey American History 1
4034DE	DE Survey American History 2
4041DE	DE American Literature 2110 (If Eng.Comp 1 and 2 completed prior)
DUAL ENROLLMENT - TENNESSEE COLLEGE OF APPLIED TECHNOLOGY	
LIVE INSTRUCTION - MJHS students take courses on TCAT campus	
4059DE	DE Principles of Manufacturing
4062DE	DE Welding 1
4063DE	DE Mechatronics
4112DE	DE Com Science Foundations
4113DE	DE Comp System
4114DE	DE Networking

NCAA Eligibility

For additional information refer to the “NCAA Guide for the College-Bound Student- Athlete” (got to www.eligibilitycenter.org) and college directories for information on Division I, II, and III colleges and universities.

The NCAA form (48-H) lists the course titles and the course numbers of all courses that meet NCAA core course requirements. This form can be completed by each school and sent in to the NCAA Initial Eligibility Clearinghouse.

If a student enrolls in a Division I college or university on or after August 1, 2016, and wants to practice and compete in Division I athletics or receive an athletics aid during the first year of college, the student athlete must:

- Graduate from high school
- Complete the 16 core-course requirement in eight semesters:
 - 4 years English;
 - 3 years math at Algebra I level or higher;
 - 2 years natural or physical science (one lab if offered at any high school attended);
 - 1 year additional English, math, or natural/physical science;
 - 2 years social science; and
 - 4 additional years from areas above or foreign language, philosophy, or comparative religion. Note: Courses with similar content may be deemed duplicative by the NCAA Eligibility Center.
- Complete 10 core courses, including 7 in English, math or science before the start of your seventh semester. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses for GPA improvement.
- Earn a minimum required grade-point average in 16 core courses of 2.3
- Earn an SAT combined score or ACT sum score that matches the core-course grade-point average on the Division I sliding scale (For example, a 2.425 core-course grade-point average needs an 860 SAT score or 70 ACT sum score).

*If a student enrolls in a Division II college **before August 1, 2018**, and wants to participate in athletics or receive an athletic scholarship during the first year, the student athlete must:*

- Graduate from high school
- Complete all 16 core courses:
 - 3 years of English
 - 2 years of mathematics (Algebra I or higher)
 - 2 years of natural/physical science (one year of lab if offered by high school)
 - 3 additional years of English, mathematics, or natural/physical science
 - 2 years of social science
 - 4 additional years of English, mathematics, natural or physical science, social science, world language, comparative religion or philosophy
- Earn a 2.0 grade-point average or better in your core courses; and
- Earn a combined SAT score of 820 or an ACT sum score of 68

*If a student enrolls in a Division II college **after August 1, 2018**, and wants to participate in athletics or receive an athletic scholarship during the first year, the student athlete must:*

- Graduate from high school
- Complete all 16 core courses:
 - 3 years of English
 - 2 years of mathematics (Algebra I or higher)
 - 2 years of natural/physical science (one year of lab if offered by high school)
 - 3 additional years of English, mathematics, or natural/physical science
 - 2 years of social science
 - 4 additional years of English, mathematics, natural or physical science, social science, world language, comparative religion or philosophy
- Earn a 2.2 grade-point average or better in your core courses; and
- Earn an SAT score or ACT score that matches the core-course grade-point average (minimum 2.2) on the Division II competition sliding scale.

For additional information visit the NCAA Clearinghouse website.

NAIA Eligibility:

SCHEDULING POLICIES

A high school builds its master schedule on student requests for courses. The spring registration determines the courses the school will offer the following fall. Once the master schedule has been established, students are obligated to take the courses they requested. Students, therefore, should plan their schedules in a thoughtful, careful manner to match their abilities and educational goals.

- Valid schedule corrections to update course selections based on summer school credits or to correct a scheduling error made by the school may take place the first 5 days of first semester.
- Students who requested and received Honors or Advanced Placement courses in the spring will be obligated to take these courses in the next academic school year unless school administration approval is granted. .
- A student who is experiencing difficulty in a class will not be removed from the class outside the policies stated above. When difficulties occur, the following procedures should be followed:
 1. The student should seek assistance from the course instructor. This may include but is not limited to one-to-one tutoring before/after school or during RTI period daily with the teacher, small group tutoring offered before or after school, or additional remediation projects.
 2. If student difficulties persist in the course, the parent should communicate with the teacher. Communication may occur by email, phone, or parent-teacher conference.
 3. If the student continues to experience difficulties, the parent may request a school meeting that includes the teacher, student, parent(s), appropriate school counselor, and appropriate assistant principal. The team will form an appropriate plan of action to address the concerns.

AP Courses:

Students who wish to take an AP course who have not met the grade level and/or other requirements must fill out an application for review. Please see your school counselor for information.

STUDENT PLANNING GUIDE

<u>CORE COURSE</u>	<u>CREDIT EARNED</u>	<u>ENROLLED</u>
English I		
English II		
English III		
English IV		
Algebra I		
Geometry		
Algebra II		
4 th (Higher) Math		
Biology		
Chemistry or Physics		
3 rd Lab Science		
U.S. History and Geography		
World History and Geography		
US Government and Civics		
Economics		
Personal Finance		
Foreign Language Year I		
Foreign Language Year II		
Fine Arts		
Lifetime Wellness		
P.E.		

Elective Focus Courses (Must complete 3.0 credits in one area. Students choosing a CTE focus must complete 3.0 credits from any one Career Cluster or 4.0 credits in JROTC.)

Science/Math	_____	_____	_____
Humanities	_____	_____	_____
Fine Arts	_____	_____	_____
AP	_____	_____	_____
JROTC*	_____	_____	_____
Career & Technical (CTE)	_____	_____	_____

Course Descriptions by Subject Area

1. English Language Arts.....	19
2. Mathematics.....	23
3. Science.....	26
4. Social Studies.....	30
5. World Language.....	33
6. Physical Education.....	36
7. Fine Arts.....	37
8. JROTC.....	41
9. Career and Technical Education.....	42

ENGLISH LANGUAGE ARTS

Note: To satisfy graduation requirements, each student must earn four credits of English Language Arts: English I, English II, English III, and English IV.

3001 English I - English I addresses four strands of literacy: Reading, both literary and informational texts; Writing, including research; Listening and Speaking; and Language. Students read a variety of books, fiction and nonfiction, short stories, poetry, drama, literary nonfiction and informational texts. Writing involves the modes of narrative, informative/explanatory, and argument/opinion with an emphasis on providing relevant and ample evidence to support a claim. Students have regular opportunities to conduct both limited and extended research and to share their findings in a variety of ways, including technology-based presentations, whole and small group discussions, and written products. This course continues to develop language knowledge and skills, enabling students to write and speak in registers appropriate to the purpose and audience.

Grade Level: 9 **Prerequisite:** None

Minimum Credit: 1.0

Maximum Credit: 1.0

3001EA English IA and English IB* (Pending State Approval) - This two-term sequence is designed for students who enter high school not ready to complete English I in one semester. English I addresses four strands of literacy: Reading, both literary and informational texts; Writing, including research; Listening and Speaking; and Language. Students read a variety of books, fiction and nonfiction, short stories, poetry, drama, literary nonfiction and informational texts. Writing involves the modes of narrative, informative/explanatory, and argument/opinion with an emphasis on providing relevant and ample evidence to support a claim. Students have regular opportunities to conduct both limited and extended research and to share their findings in a variety of ways, including technology-based presentations, whole and small group discussions, and written products. This course continues to develop language knowledge and skills, enabling students to write and speak in registers appropriate to the purpose and audience.

Grade Level: 9 **Prerequisite:** TBD

Minimum Credit: 1.0

Maximum Credit: 1.0

NOTE: Minimum Credit: 2.0 Maximum Credit: 2.0 *Students will earn elective credit only for English IA. The English credit is awarded with the B course. Students must complete both the A and B course within the same academic year (fall, spring and summer).

3001 English I Pre-Advanced Placement - Students in English I Pre-Advanced Placement have demonstrated above grade level skills in reading and writing and an ability to work independently and collaboratively. As in **English I**, students read a variety of increasingly complex texts and write in various modes, with the additional expectation of extended reading, writing, and research. Students must successfully meet district and teacher expectations in the completion of honors criteria each quarter, while also completing at least one or more extended reading and writing assignments related to the quarter's content.

Grade Level: 9 **Prerequisite:** None

Minimum Credit: 1.0

Maximum Credit: 1.0

3017 English Language Arts Intervention - Students may earn an elective credit in this course designed to improve students' decoding, fluency, vocabulary, reading comprehension, and writing skills through individualized learning pathways. Students may qualify for this course based on achievement data, universal screening results, and/or reading fluency or writing test results.

Grade Level: 9, 10, 11 **Prerequisite:** Must receive approval by school team **Minimum Credit:** 1.0

Maximum Credit: 3.0

3002 English II - English II addresses four strands of literacy: Reading, both literary and informational texts; Writing, including research; Listening and Speaking; and Language. Students complete a survey of World Literature, including a variety of books, fiction and nonfiction, short stories, poetry, drama, literary nonfiction and informational texts. Writing involves the modes of narrative, informative/explanatory, and argument/opinion with an emphasis on providing relevant and ample evidence to support a claim while using increasingly sophisticated structures. Students have regular opportunities to conduct both limited and extended research and to share their findings in a variety of ways, including technology-based presentations, whole and small group discussions, and written products. This course continues to develop language knowledge and skills, enabling students to write and speak in registers appropriate to the purpose and audience.

Grade Level: 10 **Prerequisite:** English I

Minimum Credit: 1.0

Maximum Credit: 1.0

3002EA English IIA and English IIB* (Pending State Approval) -- This two-term sequence is designed for students who enter high school not ready to complete English II in one semester. English II addresses four strands of literacy: Reading, both literary and informational texts; Writing, including research; Listening and Speaking; and Language. Students complete a survey of World Literature, including a variety of books, fiction and nonfiction, short stories, poetry, drama, literary nonfiction and informational texts. Writing involves the modes of narrative, informative/explanatory, and argument/opinion with an emphasis on providing relevant and ample evidence to support a claim while using increasingly sophisticated structures. Students have regular opportunities to conduct both limited and extended research and to share their findings in a variety of ways, including technology-based presentations, whole and small group discussions, and written products. This course continues to develop language knowledge and skills, enabling students to write and speak in registers appropriate to the purpose and audience.

Grade Level: 10 **Prerequisite:** English I and TBD

Minimum Credit: 1.0

Maximum Credit: 1.0

NOTE: Minimum Credit: 2.0 Maximum Credit: 2.0 *Students will earn elective credit only for English IIA. The English credit is awarded with the B course. Students must complete both the A and B course within the same academic year (fall, spring and summer).

3002 English II Pre-Advanced Placement - Students in English II Honors have successfully completed **English I Honors** or demonstrated above grade level skills in reading and writing and an ability to work independently and collaboratively. As in **English II**, students read a variety of increasingly complex texts and write in a variety of modes, with the additional expectation of extended reading, writing, and research. Students must successfully meet district and teacher expectations in the completion of honors criteria each quarter, while also completing at least one or more extended reading and writing assignments related to the quarter's content. Students are expected to demonstrate mastery of grammar and language mechanics in both writing and speaking by the end of the year.

Grade Level: 10 **Prerequisite:** English I credit **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3003 English III - English III continues to develop skills in the four strands of Reading, Writing, Listening and Speaking, and Language through a survey of American Literature. Students are expected to read and analyze complex expository works of literary nonfiction, as well as a wide spectrum of various genres of American literature, in order to produce ample evidence to support inferences. Students will determine themes across multiple texts and express their thinking in writing and speaking supported by ample and relevant evidence from the texts. Writing will emphasize analysis of text, including research with appropriate citations. Writing will also focus on revising for specific purposes and audiences and editing to demonstrate command of language and mechanics.

Grade Level: 11 **Prerequisite:** English II **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3003EA English IIIA and English IIIB* (Pending State Approval) - This two-term sequence is designed for students who enter high school not ready to complete English III in one semester. English III continues to develop skills in the four strands of Reading, Writing, Listening and Speaking, and Language through a survey of American Literature. Students are expected to read and analyze complex expository works of literary nonfiction, as well as a wide spectrum of various genres of American literature, in order to produce ample evidence to support inferences. Students will determine themes across multiple texts and express their thinking in writing and speaking supported by ample and relevant evidence from the texts. Writing will emphasize analysis of text, including research with appropriate citations. Writing will also focus on revising for specific purposes and audiences and editing to demonstrate command of language and mechanics.

Grade Level: 11 **Prerequisite:** English II and TBD **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

NOTE: Minimum Credit: 2.0 Maximum Credit: 2.0 *Students will earn elective credit only for English IIIA. The English credit is awarded with the B course. Students must complete both the A and B course within the same academic year (fall, spring and summer).

3003 English III Pre-Advanced Placement - Students in English III Honors have successfully completed English II Honors and have demonstrated above grade level skills in reading and writing and an ability to work independently and collaboratively. As in English III, students perform a variety of complex reading tasks focused on recurrent themes in American literature and foundational works of American political philosophy. Analytical writing (both argument/opinion and informative/explanatory) accounts for 80% of the students' writing. Students will become skillful in developing claims and counterclaims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence. Students must successfully meet district and teacher expectations in the completion of honors criteria each quarter, while also completing at least one or more extended reading and writing assignments related to the quarter's content. Students are expected to demonstrate command of language in various writing and speaking contexts and tasks.

Grade Level: 11 **Prerequisite:** English II credit **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3013 English III Language and Composition AP - AP Language and Composition emphasizes critical reading, analysis, research, and composition. Students are expected to analyze a wide variety of complex prose from a variety of time periods, disciplines, and rhetorical contexts. Writing assignments emphasize development of critical analysis based on text and incorporating evidence from research. Extensive outside reading is required. This is a college-level course approved by the Advanced Placement College Board. Reading selections deal with mature themes. Students will develop the cognitive and communicative skills to do well on the AP English Language and Composition Examination in May.

Grade Level: 11 **Prerequisite:** English II credit **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3005 English IV - English IV continues to develop and refine skills in Reading, Writing, Listening and Speaking, and Language through a survey of British Literature. Students are expected to read and analyze complex expository works of literary nonfiction, as well as a wide spectrum of various genres of British literature, in order to produce ample evidence to support inferences. Students will determine themes across multiple texts and express their thinking in writing and speaking supported by ample and relevant evidence from the texts. Writing will emphasize analysis of text, including research with appropriate citations. Writing will focus on developing increasingly sophisticated structures, blending modes of narrative, informative/explanatory, and argument/opinion, revising for specific purposes and audiences, and editing to demonstrate command of language and mechanics.

Grade Level: 12 **Prerequisite:** English III **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3014 English IV Literature and Composition AP - AP English Literature and Composition is a rigorous college-level course. Students complete a survey of world literature. Writing includes extensively developed compositions in all modes, with an emphasis on literary analysis to evaluate structure and tone of pieces of text representing a variety of literary genres. Reading selections deal with mature themes. In addition to extended reading, students also complete an in-depth literary analysis incorporating MLA documentation. Students also regularly practice timed Advanced Placement writing prompts in preparation for the AP English Literature and Composition Examination in May.

Grade Level: 12 **Prerequisite:** English III credit **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3075 English as a Second Language I*

Board-approved materials fee may be requested, but not required. Focuses on the basic skills of English for students at the beginning proficiency level. This course focuses on the basic concepts of reading, writing, listening, and speaking in the English language. Designed for those students for whom English is not the primary language.

Grade Level: 9,10,11,12 **Prerequisite:** NA **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

*NOTE: Two (2) credits in E.S.L. may substitute for two (2) of the four (4) credits In English which are required for graduation.

3076 English as a Second Language II*

Board-approved materials fee may be requested, but not required.

Builds upon the basics and expands comprehension with the introduction of academic vocabulary. The curriculum focuses on advancing literary skills for the development of new knowledge/skills. Designed for those students for whom English is not the primary language.

Grade Level: 9,10,11,12 **Prerequisite:** NA **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

*NOTE: Two (2) credits in E.S.L. may substitute for two (2) of the four (4) credits In English which are required for graduation.

3077 English as a Second Language III*

Board-approved materials fee may be requested, but not required.

Builds on the skills earned in E.S.L. 2 and adds additional academic language needs. The emphasis is more on academic processes and content knowledge, rather than basics. Designed for those students for whom English is not the primary language.

Grade Level: 9,10,11,12 **Prerequisite:** NA **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

*NOTE: Two (2) credits in E.S.L. may substitute for two (2) of the four (4) credits In English which are required for graduation.

3078 English as a Second Language IV*

Board-approved materials fee may be requested, but not required.

Focuses on academic content appropriate for grade level of students. More reading and writing content is used. Grammar structure is emphasized. Designed for those students for whom English is not the primary language.

Grade Level: 9,10,11,12 **Prerequisite:** NA **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

*NOTE: Two (2) credits in E.S.L. may substitute for two (2) of the four (4) credits In English which are required for graduation.

3012 Creative Writing - Creative Writing is designed to expand the students' writing skills, logical thought processes, and original thinking as they explore different modes of writing. Students are expected to grow in their ability to think innovatively and logically and to express themselves effectively. Assignments include both individual and collaborative writing, and students are expected to share their work within the classroom community.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

2900 Advanced Creative Writing -- The student will be given the opportunity to develop a creative outlet through additional writing experiences in fiction and/or nonfiction. Creative Writing allows them to promote self-expression, to explore various writing styles, and to strive for variety in diction, sentence structure, and format. Students will develop fluency, logic, clarity, and creativity; write for a variety of audiences; explore diverse modes and genres of writing; utilize evaluation and revision skills; focus on the steps of the process writing; and use available technology in the creative process.

Grade Level: 10-12 **Prerequisite:** Creative Writing **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

2901MY Genre Literature Mythology – Students will explore the intricate aspects that define the literary genre, read widely in the genre, study the thematic element(s) of the genre, explore various styles, settings, characters, and plot elements of the literary genre. Students will analyze, evaluate, and synthesize literature in the genre, participate in collaborative conversations, and write about the literary genre to create a new understanding. Mythology explores literature that usually concerns an event or a hero, with or without using factual or real explanations, explore rites, practices, and natural phenomenon and supernatural beings.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

2901SF Genre Literature Science Fiction – Students will explore the intricate aspects that define the literary genre, read widely in the genre, study the thematic element(s) of the genre, explore various styles, settings, characters, and plot elements of the literary genre. Students will analyze, evaluate, and synthesize literature in the genre, participate in collaborative conversations, and write about the literary genre to create a new understanding. Speculative **fiction** exploring imaginative concepts such as futuristic **science** and technology, spaceflight, time travel, faster than light travel, parallel universes, and extraterrestrial life.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

2901SH Genre Literature Shakespeare -- Students will explore the intricate aspects that define the literary genre, read widely in the genre, study the thematic element(s) of the genre, explore various styles, settings, characters, and plot elements of the literary genre. Students will

analyze, evaluate, and synthesize literature in the genre, participate in collaborative conversations, and write about the literary genre to create a new understanding. This **course** provides students with the opportunity to study **Shakespeare's plays** and sonnets. Students will study a variety of **Shakespeare's** strategies, comedies, romances, and histories in addition to selected sonnets.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3008 Journalism I - Students in Journalism I (Yearbook) support the production of the school yearbook. The class functions as a laboratory in which students learn and practice skills in writing, photography, graphic design, desktop publishing, selling and designing advertisements and marketing the yearbook and newspaper. Students in Journalism I (Newspaper) support the production of the school newspaper. They write and publish school newspaper articles, take and crop photographs, create original graphics, and develop and balance the printing budget. Students in Journalism I may also support the school literary magazine. These courses are considered elective courses.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 4.0

3097 Journalism II Y/N - Students in Journalism I – Yearbook or Newspaper – hold editorial positions and are responsible for managing assignments and deadlines in order to publish the yearbook or newspaper in a timely manner. Among their positions are editor-in-chief, photography editor, copy editor, senior editor, and advertising manager. These courses are considered elective courses.

Grade Level: 10-12 **Prerequisite:** Journalism I **Minimum Credit:** 1.0 **Maximum Credit:** 4.0

2906 Speech and Communications - Speech develops public speaking skills. The curriculum includes skills in researching, writing, presenting, and adapting speeches to various audiences and purposes with various communication tools of perception, listening, speech apprehension, ethics, and nonverbal communication included. Forensics and debate may be included.

Grade Level: 10-12 **Prerequisite:** English I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3167 AP Seminar – Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. This is the first course in a two part course to be completed (AP Research) in the 12th grade year. This course will require placement in an RTI class specific to completion of the requirements for this fall offering in the spring only.

Grade Level: 11 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3168 AP Research- AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. This is the second course in a two part course to be completed. This course will require placement in an RTI class specific to completion of the requirements for this fall offering in the spring only.

Grade Level: 12 **Prerequisite:** AP Seminar **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

MATHEMATICS

Students must be enrolled in a mathematics course each school year.

Students must take Algebra I, Geometry, Algebra II, and a fourth higher level math course.*

*Students with qualifying disabilities as documented in the IEP are required to complete Algebra I and Geometry. They must be enrolled in a math class for each year of high school for four consecutive years.

Recommended Mathematics Sequences

7 th Grade	8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade
7 th Grade Math	8 th Grade Math	Algebra I Algebra I Honors Algebra I A/B	Geometry A/B Geometry Geometry Honors *Students may concurrently take Algebra II Honors with Geometry Honors	Algebra II Algebra II Honors Algebra II A/B	Pre-Calculus Honors Statistics Bridge Math** Applied Math
	Algebra I Honors	Geometry Geometry Honors *Students may concurrently take Algebra II Honors with Geometry Honors	Algebra II Algebra II Honors	Pre-Calculus Honors Pre-AP Calculus AP Statistics* (*concurrent with Pre-AP Calculus or Pre-Calculus Honors)	Pre-Calculus Honors AP Calculus AB AP Calculus BC AP Statistics Statistics
Algebra I Honors	Geometry Honors	Algebra II Algebra II Honors	Pre-Calculus Honors Pre-AP Calculus AP Statistics* (*concurrent with Pre-AP Calculus or pre-Calculus Honors)	Pre-Calculus Honors Pre-AP Calculus AP Calculus AB AP Calculus BC AP Statistics	AP Calculus AB AP Calculus BC AP Statistics

**Students who score below a 19 on the Mathematics ACT subtest will be placed in Bridge Math or SAILS.

***Students with qualifying disabilities as documented in the IEP may fulfill math graduation requirements through the following options:

Option 1	Option 2	Option 3	Option 4
9th Grade Algebra IA	9th Grade Algebra I A	9th Grade Algebra IA / Algebra IB	9th Grade Algebra IA / Algebra IB
10th Grade Algebra IB	10th Grade Algebra I B	10th Grade Geometry A	10th Grade Geometry
11th Grade Geometry A	11th Grade Geometry	11th Grade Geometry B	11th Grade Bridge Math
12th Grade Geometry B	12th Grade Algebra II OR Bridge Math	12th Grade Bridge Math	12th Grade Algebra II

***Many post-secondary institutions require the completion of Algebra II for admissions. Please check with the post-secondary institutions in which you would like to enroll to ensure you meet all necessary math requirements for admission.

31023A / 3102B Algebra IA and Algebra IB - This two-term sequence is designed for students who enter high school not ready to start Algebra I. These courses will explore and apply concepts, processes, and skills that are essential to successfully completing the high school graduation requirement. The first term is spent integrating pre-algebra and introductory algebra skills. More time is devoted to skill development than is possible in the one-term Algebra I class.

Grade Level: 9-12 **Prerequisite:** Must receive approval by school team **Minimum Credit:** 2.0 **Maximum Credit:** 2.0*

*Students will earn elective credit only for Algebra IA. The math credit is awarded with the B course. Students must complete both the A and B course within the same academic year (fall, spring and summer). Students with qualifying disabilities as documented in the IEP may earn math credit for Algebra IA.

3102 Algebra I Honors - This course is for students who excelled in middle school mathematics. Course content covers the topics of Algebra I in greater depth and at a faster pace, providing time for enrichment through the study of additional performance objectives. Students must successfully meet district and teacher expectations in the completion of honors criteria each grading period. Honors criteria activities may involve complex problem-solving research involving reading/writing, investigations and explorations, advanced use of technology, and making connections within the discipline and to the workplace.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3108 Geometry - This course is a survey of the fundamental and advanced concepts of plane geometry and the related topics in three-dimensional, coordinate and transformational geometry. The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. The Mathematical Practice Standards apply throughout this course and, together with the content standards, allow students to experience mathematics as a coherent, useful, and logical subject that capitalizes on their ability to make sense of problem situations.

Grade Level: 9-12 **Prerequisite:** Algebra I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3108 Geometry Honors - This course teaches all topics of Geometry at a significantly faster pace, in greater depth, and with supplemental topics. Strong analytical thinking skills beyond the rigors of algebraic computation are essential for this course which strongly emphasizes the concept of proof. Students must successfully meet district and teacher expectations in the completion of honors criteria each grading period. Honors criteria activities may involve complex problem-solving research involving reading/writing, investigations and explorations, advanced use of technology, and making connections within the discipline and to the workplace.

Grade Level: 9-12 **Prerequisite:** Algebra I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

31033A / 31034B Algebra IIA and Algebra IIB - This two-term sequence is designed for students who complete Geometry and are not ready for a semester Algebra II course. These courses will explore and apply concepts, processes, and skills that are essential to successfully completing the high school graduation requirement. The first term is an elective credit and time is spent integrating Algebra I and introductory Algebra II skills. More time is devoted to skill development than is possible in the one-term Algebra II class.

Grade Level: 10-12 **Prerequisite:** Algebra I and Geometry and approval by school team **Minimum Credit:** 2.0 **Maximum Credit:** 2.0*

*Students will earn elective credit only for Algebra IIA. The math credit is awarded with the B course. Students must complete both the A and B course within the same academic year.

3103 Algebra II Honors - This course teaches all topics of Algebra II at a significantly faster pace, in greater depth, and with supplemental topics. Strong analytical thinking skills beyond the rigors of algebraic computation are essential for this course, which strongly emphasizes the concept of proof. Students must successfully meet district and teacher expectations in the completion of honors criteria each grading period. Honors criteria activities may involve complex problem-solving research involving reading/writing, investigations and explorations, advanced use of technology, and making connections within the discipline and to the workplace.

Grade Level: 9-12 **Prerequisite:** Algebra I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3183 Applied Mathematical Concepts - The primary foci of this course are applications and modeling using mathematics in topics such as counting, combinatorics, and probability, financial math, and linear programming. In addition, students will explore concepts in logic, as well as analyze data and use of normal probability distribution and confidence intervals. Students will gain understanding and critical thinking skills that are necessary to be truly college and career ready. In order for our students to be mathematically proficient, the standards focus on a balanced development of conceptual understanding, procedural fluency, and application. Through this balance, students gain understanding and critical thinking skills that are necessary to be truly college and career ready.

Grade Level: 12 **Prerequisite:** Algebra I, Geometry, and Algebra II **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3121 Mathematics Intervention - This elective course is designed to support students' learning of the mathematical skills necessary to be successful in high school mathematics courses.

Grade Level: 9, 10, 11, 12 **Prerequisite:** Must receive approval by school team **Minimum Credit:** 1.0 **Maximum Credit:** 3.0

3181 Bridge Math - This course is designed to introduce concepts previously studied in a new approach. Connections will be made between concepts allowing for a more in-depth understanding of topics and for problem solving applications. Students will look at multiple representations of concepts, blend their new understanding of topics with applications, and have the opportunity to model contextual situations. Concepts to study will include linear and quadratic functions, similar triangles and proportions, angle properties, scientific

notations, polynomial arithmetic, radical expressions and probability. **This course is required for students who score below 19 on the Math portion of the ACT.**

Grade Level: 12 **Prerequisite:** Algebra I, Geometry, and Algebra II **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3126 Pre-Calculus Honors - This course combines topics from areas of higher mathematics, including trigonometry, complex numbers, and analytical geometry, sequences and series, probability, exponential and logarithmic functions, graphs, and vectors. Students who successfully complete this sequence will have a strong background for the first-year Calculus sequence. Students must successfully meet district and teacher expectations in the completion of honors criteria each quarter. Honors criteria activities may involve complex problem-solving research involving reading/writing, investigations and explorations, advanced use of technology, and making connections within the discipline and to the workplace.

Grade Level: 10-12 **Prerequisite:** Algebra I, Geometry, and Algebra II **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3126 Pre-Advanced Placement Calculus - This course combines topics from areas of higher mathematics, including trigonometry, complex numbers, and analytical geometry, sequences and series, probability, exponential and logarithmic functions, graphs, and vectors.

In addition, this course is designed to bridge students' understanding of pre-calculus concepts to the study of differential and integral calculus in Calculus AB AP. This is the fall course for AP Calculus in the spring. Students must register for both.

Grade Level: 10-12 **Prerequisite:** Algebra I, Geometry, and Algebra II, Honors PreCal **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3127 Calculus AB AP - This course is devoted mainly to the topics in differential and integral calculus. The scope of the course follows the topics listed in the College Board Advanced Placement Mathematics Course Description. Successful completion of this course will prepare students to take the AP exam with the possibility of earning college credit.

Grade Level: 10-12 **Prerequisite:** Honors Pre-Calculus or Pre-AP Calculus **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3128 Calculus BC AP - This course reviews all the topics covered in AP Calculus AB plus additional objectives and additional topics. The scope of the course follows the topics listed in the College Board Advanced Placement Course Description. Successful completion of this course will prepare students to take the AP exam with the possibility of earning college credit.

Grade Level: 11-12 **Prerequisite:** Calculus AB AP **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3136 Statistics - This course introduces students to the basic concepts of both descriptive and inferential statistics. Topics include collecting, displaying, interpreting, and analyzing data; surveys and experimental design; drawing conclusions about a population from a sample and predicting with data. Students must have a good understanding of equation solving and be comfortable working with functions and their graphs.

Grade Level: 11-12 **Prerequisite:** Algebra II **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3129 Statistics AP - This course introduces students to the major concepts and processes of collecting/analyzing data and making inferences for a population from a sample. A good command of concepts of equation solving and working with functions and their graphs is essential. Students must quickly master computational skills and apply higher-order thinking skills. This course follows the topics listed in the College Board Advanced Placement course description. Successful completion of this course will prepare students to take the AP exam with the possibility of earning college credit.

Grade Level: 11-12 **Prerequisite:** Algebra II **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

SCIENCE

Note: To satisfy graduation requirements, three (3) credits of science are required which include: Biology, Chemistry or Physics, and one additional lab science. If Physics is used as a fourth year of math, it cannot count as a science credit for graduation purposes. We strongly encourage students to take a science course each year.

**Students with qualifying disabilities as documented in the IEP are required to complete Biology and two other lab sciences through one of the following four science pathways:

Option 1	Option 2	Option 3	Option 4
9th Grade Physical Science or Agriscience 10th Grade Biology I A 11th Grade Biology I B	9th Grade Physical Science or Agriscience 10th Grade Biology I 11th Grade Ecology or Other Lab Science	9th Grade Physical Science or Agriscience 10th Grade Biology I 11th Grade Chemistry OR Physics	9th Grade Biology I A 10th Grade Biology I B 11th Grade Ecology or Other Lab Science

3202 Physical Science - Physical Science is a course that explores the relationship between matter and energy. It is an introduction to both chemistry and physics, with one quarter spent on each of those areas. Students will investigate the structure and properties of matter, interactions of matter, force and motion, and energy. Hands-on laboratory investigations, individual studies, and group activities will be used to help students learn the content. This course provides the foundation for studies in chemistry and physics.

Grade Level: 9 – 10 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

5957 Agriscience - Agriscience is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. It serves as the first course for all programs of study in the Agriculture, Food and Natural Resources Cluster. The content area covers ecology, biological processes, sexual and asexual reproduction and the study of the chemical and physical laws that govern life. This course helps students understand the important role science serves as the agricultural industry advances to meet the challenges of the 21st century.

Grade Level: 9-11 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

5957 Agriscience Honors - Agriscience is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. It serves as the first course for all programs of study in the Agriculture, Food and Natural Resources Cluster. The content area covers ecology, biological processes, sexual and asexual reproduction and the study of the chemical and physical laws that govern life. This course helps students understand the important role science serves as the agricultural industry advances to meet the challenges of the 21st century. Students must successfully meet district and teacher expectations in the completion of honors criteria each quarter.

Grade Level: 9-11 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3210 Biology I - Biology is the study of living organisms. Students will investigate the following: cells, interactions, photosynthesis and respiration, genetics, diversity of organisms, and biological evolution. The course will be taught with an emphasis on hands-on learning, laboratories, technology and relevancy to major life issues and career choices. The labs will include dissection. Students will take the state End of Course exam at the conclusion of the course which will count 25% of the student's semester grade.

Grade Level: 9-10 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3210 Biology I Honors - This is a more in depth study of topics presented in biology. Students will be asked to integrate scientific facts into abstract processes. Students must successfully meet district and teacher expectations in the completion of honors criteria each quarter. Students will take the state End of Course exam at the conclusion of the course, which will count 25% of the student's semester grade.

Grade Level: 9-10 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3216 Pre-AP Biology - This is a laboratory science course in which students engage in an in-depth study of the principles of biology. This course emphasizes internal and external anatomical structures and their functions, the environmental interaction of organisms, processes of

living things, mechanisms that maintain homeostasis, biodiversity, and changes in life forms over time. Students explore biological concepts through an inquiry approach.

Embedded standards for inquiry, technology and engineering, and mathematics are taught in the context of the content standards for: cells, interdependence, flow of matter and energy, heredity, biodiversity and change, comparative anatomy and physiology, and botany. Students must successfully meet district and teacher expectations in the completion of honors criteria each quarter. Students registering for AP Biology must register for PreAP Biology in the fall.

Grade Level: 10-11 **Prerequisite:** Biology I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3217 Biology AP - The AP Biology course is designed to be the equivalent of a two-semester college introductory biology course usually taken by biology majors during their first year. Students study the evolution of living systems from molecular, cellular, organismal, and population levels. Specific topics include biochemistry, structure and function of organelles and cells, energy transformation in photosynthesis and respiration, the development of the chromosomal theory of inheritance, the regulation of the prokaryotic and eukaryotic genomes, biotechnology and society and mechanisms of evolution. It will prepare students to think critically about the rapidly changing field of biology. The laboratory component is equivalent to a typical college course. Students should be academically motivated with a great desire to learn the sciences. Extended time is required (homeroom, afterschool, study hall, etc.) as per College Board. This rigorous course is intended for students who plan on entering biology fields and/or pre-medicine. Students will be preparing to take the College Board AP exam in May for the chance of earning college credit. Students should have strong knowledge of biology and chemistry concepts. We recommend students complete Biology I and Chemistry I prior to enrolling in course. AP Biology students must register for PreAP Biology in the fall and AP Biology in the spring.

Grade Level: 10-12 **Prerequisite:** PAP Biology **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3221 Chemistry I - Chemistry I is a course that explores the properties of substances and the changes that substances undergo. Topics concentrate on three main areas: qualitative laboratory experiments; general problem solving techniques; and the Atomic Theory of Matter. Students gain an understanding of nomenclature, processes in terms of molecules, and laboratory techniques. Students will investigate atomic structure, properties of matter and energy, interactions of matter, properties of solutions, and acids and bases. This course will be taught with an emphasis on hands-on laboratory investigations and integration of technology as much as possible. The course also emphasizes problem-solving and uses many algebraic math skills. .

Grade Level: 10-12 **Prerequisite:** Algebra I and Algebra II or concurrent enrollment in Algebra **Minimum Credit:** 1.0

Maximum Credit: 1.0

3221 Chemistry I Honors - Chemistry Honors is designed for students who have some background in atomic structure and writing chemical formulas and equations. Topics covered include reaction prediction, moles, stoichiometry, gas laws, atomic and molecular structure, solutions, thermodynamics, and acid-based theory. Chemistry is a math-based science course involving mathematical application, as well as abstract thinking skills and problem solving. Strong math and analytical thinking skills are required. It is strongly recommended that students be enrolled in honors math classes. Students must successfully meet district and teacher expectations in the completion of honors criteria each quarter.

Grade Level: 10-12 **Prerequisite:** Algebra I and Algebra II or concurrent enrollment in Algebra II **Minimum Credit:** 1.0

Maximum Credit: 1.0

3224PA Pre-AP Chemistry - An accelerated laboratory based course that builds on topics introduced in Chemistry I. This course investigates chemical bonding and how the kinetic molecular theory and intermolecular forces explain the physical and chemical characteristics of matter. Additional aspects of chemical reactions including limiting reactants, percent yield, equilibrium, reaction rates, and thermochemistry are considered. Students explore chemistry concepts through an inquiry-based approach. Embedded standards for inquiry, mathematics and Technology & Engineering are taught in the context standards for Structure of Matter, States of Matter, and Reactions. This class is designed to prepare students for the rigors of AP Chemistry. Students enrolling in AP Chemistry must register for this course for fall.

Grade Level: 11-12 **Prerequisite:** Chemistry I or Honors Chemistry I, Algebra II (may be taken concurrently)

Minimum Credit: 1.0

Maximum Credit: 1.0

3225 Chemistry AP - The AP Chemistry course is designed to be the equivalent of the general chemistry course, usually taken during the first college year. It is designed to be taken by students after successful completion of Chemistry Honors and Pre-Calculus. Chemistry AP provides students with a general understanding of the structure of matter and its interactions. Specific topics covered are atomic theory, stoichiometry, thermochemistry, the electronic structure of atoms, gas laws, ionic reactions, reactions rates, chemical equilibria, introductory thermodynamics and electrochemistry. The laboratory component is equivalent to a typical college course. Students should be academically motivated with a great desire to learn the sciences. Extended time required (homeroom, afterschool, study hall, etc.) as per College Board. Students will be preparing to take the College Board AP exam in May for the chance of earning college credit.

Grade Level: 11-12 **Prerequisite:** Pre-AP Chemistry, Algebra II (may be taken concurrently) **Minimum Credit:** 1.0

Maximum Credit: 1.0

(3226) Organic Chemistry Honors- This course is designed to be an honors level, college preparatory introduction to the subject of Organic Chemistry. The student will study nomenclature of organic compounds, isomerism, reaction mechanisms, reactions of organic compounds, organic synthesis, and structure determination. Students must successfully meet district and teacher expectations in the completion of honors criteria each quarter.

Grade Level: 11-12 **Prerequisite:** Chemistry Pre-AP **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3255 Ecology - Ecology enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students will investigate fundamental ecological principles, population dynamics, natural resources, human interactions with the environment, and personal and civic responsibility. An emphasis will be placed on hands-on activities and outdoor labs to develop understanding of these concepts.

Grade Level: 10-12 **Prerequisite:** Biology **Minimum Credit:** 1.0 **Maximum Credit:** 1.

3236 Environmental Science AP - The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Due to the quantitative analysis that is required in the course, students must have taken at least one year of algebra. In order to meet the College Board lab requirement, “students spend the equivalent of a double lab period each week”. Students will be preparing to take the College Board AP exam in May for the chance of earning college credit.

Grade Level: 11-12 **Prerequisite:** Biology, Algebra II, and Chemistry are recommended **Minimum Credit:** 1.0
Maximum Credit: 1.0

3205 Geology - Geology is a laboratory science course that explores the origins and the connections between the physical, chemical, and biological processes that govern the earth system. Students explore the physical aspects of earth processes and cycles through open-ended field and laboratory investigations. Understanding the importance of these processes and how they influence humankind enables students to make sound decisions about both their community and the earth’s global environment. Embedded standards for inquiry and technology and engineering are taught in the context of the content standards for maps, matter and minerals, rocks and the rock cycle, geologic history, plate tectonics, and landforms.

Grade Level: 11-12 **Prerequisite:** Biology and Chemistry **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

5961 Veterinary Science Honors - This course satisfies one *laboratory science* credit. *Veterinary Science* is an advanced course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers principles of health and disease, basic animal care and nursing, clinical and laboratory procedures, and additional industry-related career and leadership knowledge and skills.

Grade Level: 10-12 **Prerequisite:** Agriscience and Small Animal Science **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3251 Human Anatomy and Physiology Honors - This is an advanced study of human anatomy and physiology including numerous lab dissections, microscopic techniques and exercises using various types of lab equipment. Students will investigate anatomical orientation, and systems related to the following themes: protection, support and movement, integration and regulation, transportation, absorption and excretion, and reproduction, growth and development. This course is designed for students interested in health and medical careers. Dissection is required. This course covers the elements of Anatomy and Physiology with additional open-ended investigations, outside reading, and opportunities for critical analysis and application.

Grade Level: 11-12 **Prerequisite:** Biology **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3231 Physics I Honors - Physics Honors is a course that studies the interaction between matter and energy. Topics include mechanics, thermodynamics, waves and sound, light and optics, electricity and magnetism, and atomic and nuclear physics. Physics is a math-based course that involves the application of mathematical principles and problem solving, graph interpretation, laboratories, and lab reporting. Strong math and analytical thinking skills are important. There is much more emphasis on mathematics than standard physics. Students must successfully meet district and teacher expectations in the completion of honors criteria each quarter.

Grade Level: 10-12 **Prerequisite:** Geometry and Algebra II (can be taken concurrently) **Minimum Credit:** 1.0
Maximum Credit: 1.0

3238 Physics 1 AP - Physics 1 AP is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. No prior course work in physics is necessary for students to enroll in AP Physics 1. Students should have completed geometry and be concurrently taking Algebra II or an equivalent course. Although the AP Physics I course includes basic use of trigonometric functions, this understanding can be gained either in the concurrent math course or in the AP Physics 1 course itself.

Grade Level: 11-12 **Prerequisite:** Algebra II and Pre-calculus (may be taken concurrently) **Minimum Credit:** 1.0
Maximum Credit: 1.0

3239 Physics 2 AP - Physics 2 AP is equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. Students entering AP Physics 2 need to have developed mastery of the learning objectives described in the AP Physics 1 curriculum framework to be prepared for AP Physics 2. Taking the AP Physics 1 course or a comparable introductory course in physics will satisfy this prerequisite. Students should also have taken or be concurrently taking pre-calculus or an equivalent course.

Grade Level: 11-12 **Prerequisite:** AP Physics 1 and Pre-Calculus (may take concurrently) **Minimum Credit:** 1.0
Maximum Credit: 1.0

SOCIAL STUDIES

Note: In order to satisfy graduation requirements, students must earn 1 credit in U.S. History and Geography, 1 credit in Economics, 1 credit in U.S. Government and Civics, 1 credit in Personal Finance, and 1 credit from the following: World History and Geography, World History AP, Human Geography AP, or European History AP.

3415 World History and Geography - This course is a comprehensive study of the progression of humans throughout the history of the leading civilizations of the world. Students will learn about the origins and consequences of the great military, economic and cultural events of the past centuries. Topics of study include the Renaissance, the Reformation, the rise of modern states, monarchies, the Enlightenment, revolution, WWI and WWII and its aftermath.

Grade Level: 9-10 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3415PA Pre-Advanced Placement World History and Geography - A more rigorous approach to learning is associated with this course. Students will be expected to think, read and write critically and analytically. This course is a comprehensive study of the progression of humans throughout the history of the leading civilizations of the world. Students will learn about the origins and consequences of the great military, economic and cultural events of the past centuries. Topics of study include the Renaissance, the Reformation, the rise of modern states, monarchies, the Enlightenment, revolution, WWI and WWII and its aftermath. This course is designed to prepare students for the rigorous study of AP World History, AP European History, or AP Human Geography.

Grade Level: 9-10 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3450 Human Geography AP - Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore; students enrolled in this course may take the College Board Advanced Placement Exam in May. Human Geography AP introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students will employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. Additionally, students will learn about the methods and tools geographers use in their science and practice.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3449 World History AP - Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore; students enrolled in this course may take the College Board Advanced Placement Exam in May. World History AP is a comprehensive study of the progression of humans throughout the history of the leading civilizations of the world. Students will learn about the origins and consequences of the great military, economic and cultural events of the past centuries. Topics of study include the Renaissance, the Reformation, the rise of modern states, monarchies, the Enlightenment, revolution, WWI and WWII and its aftermath.

Grade Level: 10-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3441 European History AP - Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore; students enrolled in this course may take the College Board Advanced Placement Exam in May. European History AP focuses on political, economic and social events from the 14th century to the present. This course will allow students to develop an understanding of the principal themes in modern European history. Students will be able to analyze and interpret historical evidence and express historical understanding in writing.

Grade Level: 10-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3416 United States History and Geography - In this course, students will learn the fundamental concepts in civics, economics, and geography within the context of United States history. Topics of study include: the Industrial Revolution, America's growing role in world diplomatic relations, World War I, the Progressive Era, the Great Depression, WWII, the Cold War, Civil Rights, the Vietnam War Era, Watergate, and recent events and trends that have shaped modern-day America. Finally, students will focus on current human and physical geographic issues important in contemporary America and the global society. The reading of primary source documents is a key feature of United States history standards.

Grade Level: 11 **Prerequisite:** World History **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3416H United States History and Geography Honors - Students will be expected to think, read and write critically and analytically. Students enrolled in Honors level courses are required to complete district and/or honors criteria. This course is the study of the fundamental concepts in civics, economics, and geography within the context of United States history. Topics of study include: the Industrial Revolution, America's growing role in world diplomatic relations, World War I, the Progressive Era, the Great Depression, WWII, the Cold War, Civil Rights, the Vietnam War Era, Watergate, and recent events and trends that have shaped modern-day America. Finally, students will focus on current human and physical geographic issues important in contemporary America and the global society. The reading of primary source documents is a key feature of United States history standards.

Grade Level: 11 **Prerequisite:** World History **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3440 United States History AP - Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore; students enrolled in this course may take the College Board Advanced Placement Exam in May. US History AP integrates biographical, economic, social, political and cultural perspectives of American history from the Age of Exploration to the present. Students will be required to master the following historical skills: chronological reasoning, comparison and contextualization, creating arguments from evidence and interpretation and synthesis.

Grade Level: 11-12 **Prerequisite:** World History **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3417 United States Government and Civics - This course will focus on the study of the purposes, principles, and practices of American government and the study of the U.S. Constitution. Students will also study our state's government structure and the various local governments in Tennessee. While emphasis is placed on the study of federalism, students will also learn about the rights and responsibilities of citizens. The reading of primary source documents is a key feature of this course.

Grade Level: 12 **Prerequisite:** U.S. History **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3445 United States Government and Politics AP - Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore; students enrolled in this course may take the College Board Advanced Placement Exam in May. Comparative Government and Politics AP is an elective semester course which gives the students analytical perspective on government and politics from around the world. It includes both the study of general concepts to interpret government actions and structures as well as the level of participation citizens have within their government. The course focuses on the analysis of six major countries as case studies: China, Iran, Mexico, Nigeria, Russia, United Kingdom of Great Britain.

Grade Level: 11-12 **Prerequisite:** U.S. History **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3446 States Government and Politics Comparative AP - Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore; students enrolled in this course may take the College Board Advanced Placement Exam in May. Comparative Government and Politics AP is an elective semester course which gives the students an analytical perspective on government and politics from around the world. It includes both the study of general concepts to interpret government actions and structures as well as the level of participation citizens have within their government. This course focuses on the analysis of six major countries as case studies: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom of Great Britain. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes.

Grade Level: 11-12 **Prerequisite:** U.S. History **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3431 Economics - This course examines the allocation of scarce resources and the economic reasoning used by government agencies and by people as consumers, producers, savers, investors, workers, and voters. Key elements of the course include the study of scarcity, supply and demand, market structures, the role of government, national income determination, money and the role of financial institutions, economic stabilization, and trade. Students will examine the key economic philosophies and economists who have influenced the economies around the world in the past and present. The reading of primary source documents is a key feature of this course.

Grade Level: 12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3443 Microeconomics AP - Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore; students enrolled in this course may take the College Board Advanced Placement Exam in May. Microeconomics AP provides students with a thorough understanding of the principles of economics as they apply to individual decision-making units, including individual households and firms. Students will consider instances in which private markets may fail to allocate resources efficiently and examine various public policy alternatives aimed at improving the efficiency of private markets.

Grade Level: 11-12 **Prerequisite:** U.S. History **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3444 Macroeconomics AP - Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore; students enrolled in this course may take the College Board Advanced Placement Exam in May. Macroeconomics AP is the study of the principles of economics that apply to an economic system as a whole with emphasis on the study of national income, economic performance measures, the financial sector and international economics.

Grade Level: 11-12 **Prerequisite:** U.S. History **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3496 Personal Finance - This course is designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. This course will provide a foundational understanding for making informed personal financial decisions.

Grade Level: 11-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3452 Bible - This elective course will enable students to acquire an understanding of the Bible's major ideas as well as its impact on the world's religions, cultures and societies. The Bible will also be studied in its historical, sociological and cultural contexts.

Grade Level: 11-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3442 African American History – This elective course examines the life and contributions of African Americans from the early 1600's through modern America. Students will explore the issue of slavery, segregation, and discrimination prior to and following the Civil War. Additional topics will include the conditions and contributions of African Americans during WWI, the Great Depression, and WWII. Students will examine the successes and failures of the Civil Rights Movement and consider issues confronting contemporary African Americans. In addition, this course offers a unique perspective of influential African American Tennesseans from the past and present.

Grade Level: 10-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3433 Psychology - This elective course provides an overview into the study of human behavior. Main topics include human development, psychological disorders, physiological processes, learning, memory and language and communication. Throughout the course, students will examine connections between the different content areas within psychology and relate psychological knowledge to everyday life.

Grade Level: 11-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3447 Psychology AP - Rigorous and challenging classwork with a strong emphasis on extensive reading, writing and research skills is associated with this college-level course. AP level classes require more independent practice and outside reading than Honors level classes. Coursework requirements are guided by the College Board, therefore; students enrolled in this course may take the College Board Advanced Placement Exam in May. Psychology AP is the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

Grade Level: 11-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3435 Contemporary Issues - Students will use inquiry skills to examine the issues that impact the contemporary world. Included in the course will be analysis of the historical, cultural, economic, and geographic factors that have raised certain issues to levels of concern in our nation and around the globe. Students will engage in research and problem solving in order to better understand and assess significant current issues.

Grade Level: 10-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3432 Sociology - Students will explore the ways sociologists view society, and also how they study the social world. In addition, students will examine culture, socialization, deviance and the structure and impact of institutions and organizations. Also, students will study selected social problems and how change impacts individuals and societies.

Grade Level: 10-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3187 Tennessee History - Students will examine the history of Tennessee, including the cultural, geographic, economic, and political influences upon that history. Students will discuss Tennessee's indigenous peoples as well as the arrival of Euro-American settlers. Students will analyze and describe the foundation of the state of Tennessee. Students will identify and explain the origins, impact, and aftermath of the Civil War. Students will discuss the rise of a manufacturing economy. Students will examine and discuss the Civil Rights Movement and Tennessee's modern economy and society.

Grade Level: 10-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

WORLD LANGUAGE

Note: In order to satisfy graduation requirements, a student must complete two years of the same foreign language. In certain extraordinary circumstances the student may seek approval to have his/her foreign language requirement waived in order for him/her to expand and enhance his/her chosen elective focus.

3041 French I - Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills (listening, speaking, writing and reading) with an emphasis on the ability to communicate orally and in writing. Students explore the similarities and differences between American culture and that of the French-speaking world.

This interactive course employs a variety of teaching methods and daily participation and study are required.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3041H French I Honors - Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills (listening, speaking, writing and reading). Classroom interactions are increasingly conducted in the target language as skills progress. Students explore the similarities and differences between American culture and that of the French-speaking world. This interactive course employs a variety of teaching methods and daily participation and study are required. Students enrolled in Honors level courses are required to complete district and/or honors criteria.

Grade Level: 10-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3042 French II - Students continue to develop proficiency in all four language skills (listening, speaking, reading and writing) with an emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. Students will read material on familiar topics and produce short writing samples, such as journals and summaries. Students will continue to build their cultural competency of the French-speaking world. This interactive course employs a variety of teaching methods and daily participation and study are required.

Grade Level: 10-12 **Prerequisite:** French I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3042H French II Honors - Students continue to develop proficiency in all four language skills (listening, speaking, reading and writing). They will significantly expand their vocabulary in the target language while learning to function in real-life situations using more complex sentences and language structures. Students will read material on familiar topics and produce short writing samples, such as essays, journals and summaries. Classroom interactions are increasingly conducted in the target language as their skills progress. Students will continue to build their cultural competency of the French-speaking world. This interactive course employs a variety of teaching methods and daily participation and study are required. Students enrolled in Honors level courses are required to complete district and/or honors criteria.

Grade Level: 10-12 **Prerequisite:** French I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3043H French III Honors - Students continue to develop proficiency in all four language skills (listening, speaking, reading and writing). They communicate using increasingly complex language structures on a wide variety of topics, moving from concrete to more abstract concepts. At this level, students gain a deeper understanding of the French speaking world by experiencing authentic materials, such as news broadcasts, magazine articles and websites. Students will be able to identify and summarize significant details of what they read and hear when the topics are familiar. Classroom interactions are conducted in the target language. This interactive course employs a variety of teaching methods and daily participation and study are required. Students enrolled in Honors level courses are required to complete district and/or honors criteria.

Grade Level: 10-12 **Prerequisite:** French II **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3045 French Language and Culture AP - French Language and Culture AP is a college level course designed for students who have demonstrated a mastery of advanced conversation and language concepts. Students engage in activities that encourage the development of all four language skills (listening, speaking, reading and writing) through exposure to a variety of authentic text and audio sources based on the themes dictated by the College Board. All students make take the AP Exam in May.

Grade Level: 11-12 **Prerequisite:** French II or French III **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3051H German I Honors - Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills (listening, speaking, writing and reading) with an emphasis on the ability to communicate orally and in writing. Students explore the similarities and differences between American culture and that of the German-speaking world. This interactive course employs a variety of teaching methods and daily participation and study are required. Students enrolled in Honors level courses are required to complete district and/or honors criteria.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3052H German II Honors - Students continue to develop proficiency in all four language skills (listening, speaking, reading and writing). They will significantly expand their vocabulary in the target language while learning to function in real-life situations using more complex sentences and language structures. Students will read material on familiar topics and produce short writing samples, such as essays, journals and summaries. Classroom interactions are increasingly conducted in the target language as their skills progress. Students will continue to

build their cultural competency of the German-speaking world. This interactive course employs a variety of teaching methods and daily participation and study are required. Students enrolled in Honors level courses are required to complete district and/or honors criteria.

Grade Level: 10-12 **Prerequisite:** German I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3053H German III Honors - Students continue to develop proficiency in all four language skills (listening, speaking, reading and writing). They communicate using increasingly complex language structures on a wide variety of topics, moving from concrete to more abstract concepts. At this level, students gain a deeper understanding of the German speaking world by experiencing authentic materials, such as news broadcasts, magazine articles and websites. Students will be able to identify and summarize significant details of what they read and hear when the topics are familiar. Classroom interactions are conducted in the target language. This interactive course employs a variety of teaching methods and daily participation and study are required. Students enrolled in Honors level courses are required to complete district and/or honors criteria.

Grade Level: 11-12 **Prerequisite:** German II **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3055 German Language and Culture AP - German Language and Culture AP is a college level course designed for students who have demonstrated a mastery of advanced conversation and language concepts. Students engage in activities that encourage the development of all four language skills (listening, speaking, reading and writing) through exposure to a variety of authentic text and audio sources based on the themes dictated by the College Board. All students may take the AP Exam in May.

Grade Level: 11-12 **Prerequisite:** German III **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3021 Spanish I - Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills (listening, speaking, writing and reading) with an emphasis on the ability to communicate orally and in writing. Students explore the similarities and differences between American culture and that of the Spanish-speaking world. This interactive course employs a variety of teaching methods and daily participation and study are required.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3021H Spanish I Honors - Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills (listening, speaking, writing and reading). Classroom interactions are increasingly conducted in the target language as skills progress. Students explore the similarities and differences between American culture and that of the Spanish-speaking world. This interactive course employs a variety of teaching methods and daily participation and study are required. Students enrolled in Honors level courses are required to complete district and/or honors criteria.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3022 Spanish II - Students continue to develop proficiency in all four language skills (listening, speaking, reading and writing) with an emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. Students will read material on familiar topics and produce short writing samples, such as journals and summaries. Students will continue to build their cultural competency of the Spanish-speaking world. This interactive course employs a variety of teaching methods and daily participation and study are required.

Grade Level: 10-12 **Prerequisite:** Spanish I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3022H Spanish II Honors - Students continue to develop proficiency in all four language skills (listening, speaking, reading and writing). They will significantly expand their vocabulary in the target language while learning to function in real-life situations using more complex sentences and language structures. Students will read material on familiar topics and produce short writing samples, such as essays, journals and summaries. Classroom interactions are increasingly conducted in the target language as their skills progress. Students will continue to build their cultural competency of the Spanish-speaking world. This interactive course employs a variety of teaching methods and daily participation and study are required. Students enrolled in Honors level courses are required to complete district and/or honors criteria.

Grade Level: 9-12 **Prerequisite:** Spanish I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3023H Spanish III Honors - Students continue to develop proficiency in all four language skills (listening, speaking, reading and writing). They communicate using increasingly complex language structures on a wide variety of topics, moving from concrete to more abstract concepts. At this level, students gain a deeper understanding of the Spanish speaking world by experiencing authentic materials, such as news broadcasts, magazine articles and websites. Students will be able to identify and summarize significant details of what they read and hear when the topics are familiar. Classroom interactions are conducted in the target language. This interactive course employs a variety of teaching methods and daily participation and study are required. Students enrolled in Honors level courses are required to complete district and/or honors criteria.

Grade Level: 10-12 **Prerequisite:** Spanish II **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3025 Spanish Language and Culture AP - Spanish Language and Culture AP is a college level course designed for students who have demonstrated a mastery of advanced conversation and language concepts. Students engage in activities that encourage the development of all four language skills (listening, speaking, reading and writing) through exposure to a variety of authentic text and audio sources based on the themes dictated by the College Board. All students make take the AP Exam in May.

Grade Level: 11-12 **Prerequisite:** Spanish III **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3031H Latin I Honors - Latin I students are introduced to the principles of Latin grammar, basic vocabulary and English derivatives in order to build reading and writing proficiency. Emphasis is placed on the study and understanding of Roman mythology, culture and history, as well as exploring Latin's connections to modern languages. Daily participation and study are required. Students enrolled in Honors level courses are required to complete district and/or honors criteria.

Grade Level: 9-12

Prerequisite: None

Minimum Credit: 1.0

Maximum Credit: 1.0

3032H Latin II Honors - Latin II continues the study of the principles of Latin grammar, vocabulary and English derivatives in order to build reading and writing proficiency. The course includes more exposure to Latin prose authors and poets, with an increasing emphasis on Roman culture and history as to the influence of classical civilizations on the modern world. Daily participation and study are required. Students enrolled in Honors level courses are required to complete district and/or honors criteria.

Grade Level: 10-12

Prerequisite: Latin I

Minimum Credit: 1.0

Maximum Credit: 1.0

PHYSICAL EDUCATION

Note: To meet the requirements for graduation, a student must complete 1.0 credit in Lifetime Wellness and 1 credit in an elective physical education course. A student may earn no more than a total of 8 P.E./Wellness credits. The 1 Physical Education requirement may be met by substituting a documented and equivalent time of physical activity in marching band, JROTC, cheerleading, dance team, or TSSAA interscholastic athletics.

3303 Lifetime Wellness - This course is required for graduation and recommended for grade 9. Lifetime Wellness is a course that develops positive concepts toward an active, healthy lifestyle. Physical fitness activities such as aerobics, line-dancing, volleyball, badminton, table tennis, basketball, indoor/outdoor fitness games, etc. comprise units in the class structure that require students to dress appropriately in order to perform the activities. Classroom units covering disease prevention, mental health, stress management, nutrition, drug/alcohol/ tobacco prevention, first aid/CPR, and human sexuality are included in this course.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3301 Physical Education I - This course is designed to introduce the students to the fundamentals of specific individual and team sports which include skills, rules, and game strategy. There will also be non-competitive educational gymnastics, dance, weightlifting, aerobic, and anaerobic training.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3302 Physical Education II - In this course students are expected to attain a proficient level in specific individual and team sports which will include skills, rules, and game strategy. There will also be non-competitive educational dance, weightlifting, aerobic, and anaerobic training.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** .5 **Maximum Credit:** 1.0

3002W1 Physical Education II WI (Formerly Strength and Conditioning I) - The course includes intense weight training at a high tempo that will progressively increase in difficulty. Included in this class will be power training exercises, stretching, calisthenics, running for speed development, stations to develop quickness, and plyometric skills. Proper techniques and safety will be emphasized to prevent injuries. The course will also teach the location and movement provided by the major muscle groups.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 2.0

3002W2 Physical Education II WII (Formerly Strength and Conditioning II) - The course includes intense weight training at a high tempo that will progressively increase in difficulty. Included in this class will be power training exercises, stretching, calisthenics, running for speed development, stations to develop quickness, and plyometrics. Proper techniques and safety will be emphasized to prevent injuries. The course will also teach the location and movement provided by the major muscle groups.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 2.0

3002W3 Physical Education II WIII (Formerly Strength and Conditioning III) - The course includes intense weight training at a high tempo that will progressively increase in difficulty. Included in this class will be power training exercises, stretching, calisthenics, running for speed development, stations to develop quickness, and plyometrics. Proper techniques and safety will be emphasized to prevent injuries. The course will also teach the location and movement provided by the major muscle groups.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 2.0

FINE ARTS

Note: In order to meet graduation requirements, a student must earn 1.0 credit in a fine arts class.

3525 Dance I - This course is an initial exploration of techniques and theoretical concepts used in various dance styles. It includes developing and/or increasing awareness of proper body alignment, balance and coordination within the context of various musical meters. Basic positions and fundamental barre exercises are emphasized. The dance vocabulary is used for a thorough understanding of all terms and positions of the body. Basic step combinations in the center of the floor are introduced. After-school and/or evening rehearsals and performances may be required.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 2.0

3501 Visual Art I - This course offers students studio experiences in drawing, painting, and two-and three dimensional design with an emphasis on art elements. It is based on the National Standards for Art Education: understanding and applying media, techniques and processes; using knowledge of structures and functions; choosing and evaluating a range of subject matter, symbols and ideas; understanding the visual arts in relation to history and cultures; reflecting upon and assessing the characteristics and merits of their work and the work of others; and making connections between visual arts and other disciplines. In addition, students will learn the basics of art history and read and write art critiques.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3502 Visual Art II - Students will focus their art studies on 2-dimensional media, most specifically observational drawing and painting. Projects will also include printmaking and mixed media. Art History, note taking, reading, writing, art criticism, and maintaining a productive sketchbook are also part of the curriculum.

Grade Level: 9-12 **Prerequisite:** Visual Art I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3503 Visual Art III: Honors - Students will continue their study of and refine their skills in observational drawing and painting, while also creating prints and mixed media works. Independent study will become more critical during the second semester, as students prepare for AP Studio Art. Art History, note taking, reading, writing, art criticism, and maintaining a productive sketchbook are also part of the curriculum. The honors curriculum requires a higher proficiency in art creation and significant independent study. As part of the Honors requirement, students must complete an Honors Portfolio component each quarter which may involve complex problem-solving, research involving reading/writing, investigations and explorations, advanced use of technology, and making connections within the discipline and to the workplace.

Grade Level: 10-1 **Prerequisite:** Visual Art II **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3504PA / 3504 Pre-Advanced Placement Visual Art - Students will continue their study of and refine their skills in observational drawing and painting, while also creating prints and mixed media works. Independent study will become more critical during the second semester, as students prepare for AP Studio Art. Art History, note taking, reading, writing, art criticism, and maintaining a productive sketchbook are also part of the curriculum. The pre-AP curriculum requires a higher proficiency in art creation and significant independent study. As a requirement, students must complete a physical portfolio consisting of their best works of art from four terms of visual art classes. This portfolio may be used for admissions into post-secondary programs or careers.

Grade Level: 10-12 **Prerequisite:** Visual Art II (students may bypass the Visual Art III pre-requisite with teacher approval)
Minimum Credit: 1.0 **Maximum Credit:** 1.0

3533 Studio Art Drawing AP - The AP Studio Art program is for highly motivated students who are ready for the challenge of college-level work. Pencil, charcoal, conte, colored pencil, oil pastel, ink, and paint are some examples of media which may be explored. As part of the curriculum, extra studio hours outside of the school day are required. Students must complete a portfolio of work with no less than 24 high quality pieces. This portfolio is evaluated and scored by national AP examiners in May. The scope of the course follows the topics listed in the College Board Advanced Placement Course Description. Successful completion of this course will prepare students to take the AP exam with the possibility of earning college credit.

Grade Level: 11-12 **Prerequisite:** Visual Art II **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3545 Studio Art 2D Design AP - The AP Studio Art program is for highly motivated students who are ready for the challenge of college-level work. Drawing, painting, printmaking, mixed media, fabric design, and photography are some examples of media which may be explored. As part of the curriculum, extra studio hours outside of the school day are required. Students must complete a portfolio of work with no less than 24 high quality pieces. This portfolio is evaluated and scored by national AP examiners in May. The scope of the course follows the topics listed in the College Board Advanced Placement Course Description. Successful completion of this course will prepare students to take the AP exam with the possibility of earning college credit.

Grade Level: 11-12 **Prerequisite:** Visual Art II (students may bypass the Visual Art III pre-requisite with teacher approval)
Minimum Credit: 1.0 **Maximum Credit:** 1.0

3544 Studio Art 3D Design AP - The AP Studio Art program is for highly motivated students who are ready for the challenge of college-level work. Ceramics, metal work, plaster, fiber arts, and assemblage are some examples of media which may be explored. As part of the curriculum, extra studio hours outside of the school day are required. Students must complete a portfolio of work with no less than 24 high quality pieces. This portfolio is evaluated and scored by national AP examiners in May. The scope of the course follows the topics listed in the College Board Advanced Placement Course Description. Successful completion of this course will prepare students to take the AP exam with the possibility of earning college credit.

Grade Level: 11-12 **Prerequisite:** Visual Art II (students may bypass the Visual Art III pre-requisite with teacher approval)
Minimum Credit: 1.0 **Maximum Credit:** 1.0

3534 History of Art AP - AP Art History is a college-level course which strives to develop in students an understanding and knowledge of the diverse historical and cultural contexts of art and architecture. Instruction focuses on visual analysis; however, students will read regularly from the assigned textbook, participate in group activities, complete written assignments, and occasionally work on studio projects (time permitting). The AP Art History exam takes place in May. A strong background in World History and/or European History is strongly recommended. Completion of Visual Art I is helpful, but not required. The scope of the course follows the topics listed in the College Board Advanced Placement Course Description. Successful completion of this course will prepare students to take the AP exam with the possibility of earning college credit.

Grade Level: 10-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3515 Art History - Visual Art History is a course where students will demonstrate an understanding of the unique properties and potential of materials and media used in art and /or architecture. Students will research types of media, techniques, and processes used in select works and/or by select artists or architects, investigate how the design, technique, and material of a chosen work influences its function, structure, shape, or appearance; evaluate a range of subject matter, symbols, and ideas; understand the visual arts in relationship to history and cultures, and reflect upon and assess the characteristics and merits of works of art.

Grade Level: 12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3505 General Music - A study of the elements (pitch, rhythm, harmony, tone quality, form), history, and the role of music in today's society. The course will encourage active participation in performing and creating music through a balanced, comprehensive, and sequential program of study. In addition, a correlation between music, the other arts, and academic disciplines will be included.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3514 Music Theory and Harmony - This course is for students with a particular interest and aptitude in music. Emphasis is on an in-depth study of music fundamentals through ear training and reading and writing music. Musical analysis as well as simple rhythmic, melodic, and harmonic dictation will be explored.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3530BW Instrumental Music (Band/Winds)

An organized class that provides musical performance and study for woodwind and brass instrumentalists. The course is designed to develop proficiency in musical performance, an understanding of the art of music, and an appreciation of the creative and intrinsic values of music which can result in a life-long vocation/avocation. Participation in school and public performances required.

Grade Level: 9-12 **Prerequisite:** One year of band experience **Minimum Credit:** 1.0 **Maximum Credit:** 8.0

3530PC Instrumental Music (Percussion/Color Guard) An organized class that provides musical performance and study for students involved as percussionists and color guard in the marching band, winter guard and winter drum line. The course is designed to develop proficiency in musical performance, an understanding of the art of music, and an appreciation of the creative and intrinsic values of music which can result in a life-long vocation/avocation. Participation in school and public performances required.

Grade Level: 9-12 **Prerequisite:** One year of band experience **Minimum Credit:** 1.0 **Maximum Credit:** 8.0

3530BO Beginning Orchestra

Students who enroll in Beginning Orchestra acquire a basic introduction to orchestral instruments (Violin, Viola, Cello and String Bass) and orchestral literature, with the opportunity to grow as an overall musician. Instruction is provided in individual technique and ensemble performance style. Additionally, there will be opportunities provided on an extracurricular basis for solo and chamber ensemble experience.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 8.0

3530CO Chamber Orchestra

Students who enroll in Orchestra II (Chamber Orchestra) acquire an extended introduction to orchestral instruments (Violin, Viola, Cello and String Bass) and orchestral literature, with the opportunity to grow as an overall musician. This course is a continuation of Beginning Orchestra I. Instruction is provided in individual technique and ensemble performance style at a higher level. Additionally, there will be opportunities provided on an extracurricular basis for solo and chamber ensemble experience. This course may be repeated for credit.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 8.0

3535 Music Theory AP - This course is designed for the music student who is interested in pursuing a career in music and/or majoring in music. The course will include the study of music vocabulary, chord structure, key signatures, harmony, complex rhythms and other music reading skills in preparation for college music theory. This music theory course will also emphasize the student's development in the areas of sight singing and ear training. Students will be learning skills that are taught at a college freshman level of music theory. It is strongly recommended that students have a basic understanding of traditional music notation in treble and bass clef before beginning this course. Knowledge of major scales and key signatures is preferred. The scope of the course follows the topics listed in the College Board Advanced Placement Course Description. Successful completion of this course will prepare students to take the AP exam with the possibility of earning college credit.

Grade Level: 11-12 **Prerequisite:** At least two years of instrumental or vocal music courses
Minimum Credit: 1.0 **Maximum Credit:** 1.0

3540 Class Piano I - This course is designed for the beginning student wishing to learn the basic fundamentals of piano playing. This is a laboratory course through the use of an electronic piano lab. Students do not need to have a piano available for home practice, though it would be helpful. Elements of music theory and music history are part of this course. After-school and/or evening performances may be required for this course.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3541 Class Piano II - This course is for students wishing to continue in-depth study for piano, which will include repertory, sight-reading and improvisation. There will be a continued use of the electronic piano lab. Students are encouraged to access to a piano for after school practice. Elements of music theory and music history are part of this course. After-school and/or evening performances may be required for this course.

Grade Level: 10-12 **Prerequisite:** Class Piano I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

0995BC Beginning Choir Freshman- This is a choir class for those students who have not participated in any MJHS choir before. Students will learn basic music fundamentals like sight reading, music history and music theory. They will also be taught proper vocal technique and sing literature from multiple musical genres. Students are required to participate in two concerts per semester.

Grade Level: 9 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

0995UC Beginning Choir Non-Freshman (10th – 12th grade) - This is a choir class for students who have not participated in any MJHS choir before. Students will learn basic music fundamentals like sight reading, music history and music theory. They will also be taught proper vocal technique and they will learn and perform literature from multiple musical genres. Students are required to participate in two concerts per semester.

Grade Level: 10-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

0995AC S.O.U.L. (Singers Of Unique Literature) (Advanced Choir)-This choir is for those students who have completed Beginning Choir. They will continue to learn music fundamentals and proper vocal technique. This group sings unique or infrequently performed pieces and may perform with an outside ensemble (i.e. orchestra/band). Students in this choir will be required to perform 2 concerts. This choir also participates in the Regional and State Festival/Competitions. Students may take S.O.U.L. Choir multiple times and receive fine arts or elective credit.

Grade Level: 9-12 **Prerequisite:** Beginning Choir **Minimum Credit:** 1.0 **Maximum Credit:** 8.0

0995VE Vocal Ensemble (Select Choir)-This choir is an audition-only group for 11th, and 12th grade students. Vocal Ensemble requires a full year commitment as it is offered in two semester segments. This group is for strong sight readers who have experience in musical groups. The group sings a variety of literature from a cappella jazz to classical choral works. This choir also participates in the Regional and State Festival/Competitions. Vocal Ensemble travels and competes both regionally and nationally. Students in this choir have two required concerts per semester (4 total per year), but may perform additional concerts at festivals and community events.

Grade Level: 9-12 **Prerequisite:** Audition **Minimum Credit:** 1.0 **Maximum Credit:** 8.0

3520 Theater Arts I - This course is an overview of all aspects of theatre. Students will study both performance and non-performance facets of theatre including theater terminology, introductory theatre history, fundamentals of acting, and acting styles. Students will gain experience in speaking and acting. Time outside of class is required to fulfill the obligations of this course.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 2.0

3521 Theater Arts II - In this course, students will focus on the history of theatre and a more in-depth acting experience. They will study and perform one-act plays, as well as various scenes from the different historical genres. The course will emphasize the process of acting: auditions, rehearsals, relaxation techniques, dialogue, character analysis, and the production process. Time outside of class is required to fulfill the obligations of this course.

Grade Level: 10-12 **Prerequisite:** Theater I **Minimum Credit:** 1.0 **Maximum Credit:** 2.0

3522 Theater Arts III - In this course, students will study more in depth the various acting techniques and exercises available to professional actors. Students will take a more involved role in production with attention to directing, theatre safety, polishing acting skills, resumes, and all of the other aspects of theatre that support a full-scale performance. Considerable time outside of class is required to fulfill the obligations of this course.

Grade Level: 11-12 **Prerequisite:** Theater II **Minimum Credit:** 1.0 **Maximum Credit:** 2.0

3523 Theater IV - Theatre IV is designed as preparation for students who are seriously considering a post-secondary study of theatre or a career involving theatre. Students will have intense training in play analysis, and do in-depth study of theatre. They will assume leadership and responsibility for technical and production aspects of theatre in presentations. Considerable time outside of class is required to fulfill the obligations of this course.

Grade Level: 12

Prerequisite: Theater III

Minimum Credit: 1.0

Maximum Credit: 2.0

JUNIOR RESERVE OFFICERS TRAINING CORP PROGRAM
(JROTC)

Note: JROTC is a program provided jointly by the Wilson County School System and the United States Department of Defense. The JROTC program prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. The program is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation.

3331 JROTC I - Provides basic training in leadership tenets, physical fitness and health, drill and ceremonies, marksmanship, and military organization. Cadets are expected to develop certain positive attitudes, values, and leadership qualities from the instruction and the leadership provided by the instructors. This course emphasizes drill and ceremonies and lays the foundation for the grade level to follow. Students will be required to wear proper JROTC acquired uniforms periodically.

Grade Level: 9-12 **Prerequisite:** None **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3332 JROTC II - Provides basic training in leadership tenets, physical fitness and health, drill and ceremonies, marksmanship, and military organization. Cadets are expected to develop certain positive attitudes, values, and leadership qualities from the instruction and the leadership provided by the instructors. This course emphasizes drill and ceremonies and lays the foundation for the grade level to follow. Students will be required to wear proper JROTC acquired uniforms periodically.

Grade Level: 9-12 **Prerequisite:** JROTC I **Minimum Credit:** 1.0 **Maximum Credit:** 1.0

3333 JROTC III - Builds on the foundation laid in JROTC 1. It explores each subject in greater detail and emphasizes weapons training and marksmanship. Leadership roles are assigned to second year cadets. Students will be required to wear proper JROTC acquired uniforms periodically.

Grade Level: 10-12 **Prerequisite:** JROTC I and II **Teacher Recommendation Needed:** Yes
Minimum Credit: 1.0 **Maximum Credit:** 1.0

3334 JROTC IV - Builds on the foundation laid in JROTC 1. It explores each subject in greater detail and emphasizes weapons training and marksmanship. Leadership roles are assigned to second year cadets. Students will be required to wear proper JROTC acquired uniforms periodically.

Grade Level: 10-12 **Prerequisite:** JROTC I, II, and III **Teacher Recommendation Needed:** Yes
Minimum Credit: 1.0 **Maximum Credit:** 1.0

3335 JROTC V - Emphasizes leadership training and practical application. Cadet instructors and some cadet corps senior leaders are third year cadets. Students will be required to wear proper JROTC acquired uniforms periodically.

Grade Level: 11-12 **Prerequisite:** JROTC I, II, III, and IV **Teacher Recommendation Needed:** Yes
Minimum Credit: 1.0 **Maximum Credit:** 1.0

3336 JROTC VI - Emphasizes leadership training and practical application. Cadet instructors and some cadet corps senior leaders are third year cadets. Students will be required to wear proper JROTC acquired uniforms periodically.

Grade Level: 11-12 **Prerequisite:** JROTC I, II, III, IV, and V **Teacher Recommendation Needed:** Yes
Minimum Credit: 1.0 **Maximum Credit:** 1.0

3337 JROTC VII - Consists entirely of leadership training. Includes participation in leadership research and in presentation of leadership talks to student or community groups. Practical application in staff planning and functioning are also exercised. Students will be required to wear proper JROTC acquired uniforms periodically.

Grade Level: 12 **Prerequisite:** JROTC I, II, III, IV, V, and VI **Teacher Recommendation Needed:** Yes
Minimum Credit: 1.0 **Maximum Credit:** 1.0

3338 JROTC VIII - Consists entirely of leadership training. Includes participation in leadership research and in presentation of leadership talks to student or community groups. Practical application in staff planning and functioning are also exercised. Students will be required to wear proper JROTC acquired uniforms periodically.

Grade Level: 12 **Prerequisite:** JROTC I, II, III, IV, V, VI, VII **Teacher Recommendation Needed:** Yes
Minimum Credit: 1.0 **Maximum Credit:** 1.0

OTHER APPROVED COURSES

3499 Nature and Needs of Exceptional Learners - Offers students not only the opportunity to teach, but also the opportunity to learn from students with disabilities and to shape positive attitudes about these persons. Students in this course will have the opportunity to develop teaching skills, practice academic and social skills, become advocates and learn valuable advocacy skills, and explore realistic career opportunities.

Grade Level: 11-12 **Prerequisite:** None **Teacher Recommendation Needed:** Yes
Minimum Credit: 1.0 **Maximum Credit:** 2.0

6104 Success Skills through Service Learning - A program which combines volunteer service and classroom instruction, and provides a comprehensive experiential approach. Focuses on ethical, social, and intellectual skill development of students; development of positive values such as trustworthiness and responsibility; commitment to a task and those involved in the task; collaboration; team-building, punctuality, and respect for the quality of work done while serving the community.

Grade Level: 12 **Prerequisite:** None **Teacher Recommendation Needed:** Yes
Minimum Credit: 1.0 **Maximum Credit:** 2.0

9408LL / 9408 Learning Lab - This class emphasizes organization, study skills, and core course remediation. Students may receive universal or individualized accommodations in this course to assist them in experiencing success in their core academic courses.

Grade Level: 9, 10, 11, 12 **Prerequisite:** Must be approved by school team **Minimum Credit:** 1.0 **Maximum Credit:** 8.0

6105WL / 6105 Cooperative Education Learning - This course allows students to gain on-the-job experience in a job related to their designated elective focus. Students are required to work a minimum of fifteen (15) hours per week or an approved amount of time as determined by a school team. Students are placed and monitored on the job by the cooperative education coordinator. Course approval by application base only.

Grade Level: 11, 12 **Prerequisite:** Application based admittance
Minimum Credit: 1.0 **Maximum Credit:** 2.0

Career Technical Education Classes

All Career Technical Education courses require the passing of safety test(s), and may require a board approved class fee.

AGRICULTURE, FOOD, & NATURAL RESOURCES

Students must complete 3 units in the same CTE Focus area in order to complete an elective focus.

Program of Study	Level 1	Level 2	Level 3	Level 4
Veterinary and Animal Science	Agriscience*	Small Animal Science	Large Animal Science	Veterinary Sciences* and/or Vet Clinical Internship
Agricultural Engineering and Applied Technologies	Agriscience*	Principles of Agricultural Mechanics	Agricultural and Biosystems Engineering***	Agriculture Practicum
Agribusiness	Agriscience*	Principles of Agribusiness	Organizational Leadership and Communications	Agricultural Business and Finance**
Environmental and Natural Resource Management	Agriscience*	Applied Environmental Science*	Plant and Soil Sciences ***	Natural Resource Management or AP Environmental Science
Horticulture Science	Agriscience*	Principles of Plant Science and Hydroculture	Greenhouse Management**	Landscaping and Turf Science
Diversified Agriculture	Agriscience*	Any AFNR course as approved by building level administration	Any AFNR course as approved by building level administration	Any AFNR course as approved by building level administration

INDUSTRY CERTIFICATION

CLUSTER	INDUSTRY CERTIFICATION	INDUSTRY CERTIFICATION
VETERINARY AND ANIMAL SCIENCE	ANIMAL SCIENCE	
AGRICULTURAL ENGINEERING AND APPLIED TECHNOLOGIES	OSHA 10	
HORTICULTURE SCIENCE	COMMERCIAL PESTICIDE	HORTICULTURE

Early Post-Secondary Opportunity (EPSO)

CLUSTER	EPSO
AGRIBUSINESS	AG BUSINESS (SWDC)
AGRICULTURAL ENGINEERING AND APPLIED TECHNOLOGIES	WELDING AT TCAT
HORTICULTURE SCIENCE	PLANT SCIENCE (SWDC)
VETERINARY AND ANIMAL SCIENCE	ANIMAL SCIENCE (SWDC)

(5957) AGRISCIENCE

Agriscience is an introductory *laboratory science course* that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. It serves as the first course for all programs of study in the Agriculture, Food and Natural Resources Cluster. The content area covers ecology, biological processes, sexual and asexual reproduction and the study of the chemical and physical laws that govern life. This course helps students understand the important role science serves as the agricultural industry advances to meet the challenges of the 21st century.

1 credit, Open to 9-11th grade

(5957H) AGRISCIENCE - HONORS

Agriscience consists of standards to prepare students for biology and subsequent sciences for the university bound student. The content area covers ecology, biological processes, sexual and asexual reproduction and a study of the chemical and physical laws that govern life. This course helps students understand the important role science serves as the agricultural industry advances to meet the challenges of the 21st century.

1 credit, Open to grade 9-10 only

(5963) AGRICULTURAL AND BIOSYSTEMS ENGINEERING

The class includes basic technologies of metal fabrication and agricultural structures. Also includes hot/cold metal work, and material computation, electric wiring and codes, blueprint reading and drawing and selection of appropriate materials for projects.

1 credit, Open to grades 11 and 12, Prerequisite: Agriscience and Principles of Agricultural Mechanics

(5943H) AGRICULTURAL BUSINESS AND FINANCE HONORS

This course satisfies Personal Finance graduation requirement. Agricultural business/ finance contains standards that address the economic principles necessary for a successful business. As technology improves the ability to communicate, market and produce must change in order for industries to remain competitive.

1 credit, Open to grades 11 and 12, Prerequisite: Agriscience. This class is also a Dual Credit class. A student must pass an exam to receive Post-Secondary credit.

(5954H) GREENHOUSE MANAGEMENT - HONORS

Greenhouse Management provides students with the technical knowledge and skills needed to prepare for further education and careers in horticulture production. This course covers principles of greenhouse structures, plant health and growth, growing media, greenhouse crop selection and propagation, and management techniques. Greenhouse Management is a dual credit course with statewide articulation.

1 credit, Open to grades 11, and 12, Prerequisite(s): Agriscience. This class is also a Dual Credit class. A student must pass an exam to receive Post-Secondary credit.

(5951) LANDSCAPING AND TURF SCIENCE

Landscaping and turf management includes standards to prepare students for creating beautiful environments for homes and businesses. This course includes site analysis and preparation, landscape drawing, plant selection, and installation. Maintenance of healthy attractive landscapes and turf areas will be emphasized. With the increase of urban sprawl these career opportunities are increasing daily. Plant science and leadership skills taught in this class will prepare students to meet the demands of this exciting industry.

1 credit, Open to grades 11, and 12, Prerequisite(s): Agriscience

(6116) LARGE ANIMAL SCIENCE

Course prepares students for a career in animal management. It includes basic knowledge of animal anatomy, nutrition, health, genetics, and animal facilities. Students will explore ways to operate a successful livestock operation.

1 credit, Open to grade 10, 11, and 12, Prerequisite(s): Agriscience and Small Animal Science

(6117) NATURAL RESOURCE MANAGEMENT

This course covers major types of wildlife resources and their management, major types of forest resources and their management, public policy, the role of public education in managing resources, as well as careers as an environmental scientist, conservationist, forester, or wildlife manager.

1 credit, Open to grades 10, 11, and 12, Prerequisite: Agriscience

(5956H) ORGANIZATIONAL LEADERSHIP AND COMMUNICATIONS - HONORS

Leadership and communications analyzes attributes and capabilities of those in leadership positions; to assist students in the development of their communication skills and interpersonal relationships and other related skills. Most jobs are lost or gained because of the leadership and communication ability a person has. Students in this course participate in activities that will assist them in the development of communication and interpersonal skills transferable to any agribusiness application.

1 credit, Open to grades 11 and 12, Prerequisite: Agriscience

(5950) PLANT AND SOIL SCIENCE

Plant and soil science is designed to inquire into the nature of plant growth, crop production, soil characteristics and the environment, through the discovery, interpretation, and creative application of knowledge.

1 credit, Open to grades 11 and 12, Prerequisite(s): Agriscience

(5946) PRINCIPLES OF AGRIBUSINESS

Teaches students to apply the economic and business principles involved in the sale and supply of agricultural products to a wide range of careers across the industry and builds foundational knowledge of finance and marketing principles.

1 credit, Open to grades 10, 11, and 12, Prerequisite: Agriscience

(5944) PRINCIPLES OF AGRICULTURAL MECHANICS

Includes standards to prepare students for operational and repair procedures for a shop or a home environment. Students learn basic skills in areas ranging from welding and electricity to land measuring and plumbing.

1 credit, Open to grades 10 and 11, Prerequisite: Agriscience

(6119) PRINCIPLES OF PLANT SCIENCE AND HYDROCULTURE

This course focuses on standards that challenge students to plan for future food needs using advanced technologies and less space. This course covers principles of plant health, growth, reproduction, and biotechnology, as well as fundamental principles of hydroponics and aquaponics.

1 credit, Open to grade 10, Prerequisite: Agriscience

(5958) SMALL ANIMAL SCIENCE

Class contains objectives preparing students for careers in managing and caring for specialty and pet animals. This class will focus on such areas as: parasite control, safe animal restraint, safety in chemical application, calculating dosages, assess the benefit of neutering and spaying, animal rights vs. animal welfare. This course covers anatomy and physiological systems of different groups of small animals, as well as related careers.

1 credit, Open to grades 10, 11, and 12, Prerequisite: Agriscience

(5961H) VETERINARY SCIENCE - HONORS

This course satisfies one laboratory science credit. Veterinary Science is an advanced course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers principles of health and disease, basic animal care and nursing, clinical and laboratory procedures, and additional industry-related career and leadership knowledge and skills.

1 credit, Open to grade 11, and 12, Prerequisite(s): Agriscience, Small Animal Science and Large Animal Science

This is a capstone class and all of the prerequisites must be met before the student can qualify to take the Tennessee Specific Industry Certification-Animal Science certification test.

ARTS, AUDIO/VISUAL TECHNOLOGY, & COMMUNICATIONS

Students must complete **3 units in the same CTE Focus area** in order to complete an elective focus. *

Program of Study	Level 1	Level 2	Level 3	Level 4
Audio/ Visual Production	A/V Production I	A/V Production II	A/V Production III	Applied Arts Practicum
Fashion Design	Visual Art I	Foundations of Fashion Design	Fashion Design	Advanced Fashion Design

(6049) AUDIO / VISUAL PRODUCTION I Replaces Broadcasting I

Audio / Visual Production I is offered for students interested in either the Audio and Video Technologies sub-cluster or the Journalism and Broadcasting sub-cluster of the arts and communication cluster. The overlap in these industries is extensive as can be witnessed in television, film, music, radio, newspaper, Web-cast, and entertainment just to name a few. This course is the entry-level course to prepare students for the media industry. Course content provides a broad-based exposure to audio, video, and journalism and broadcasting within the media industry. Upon completion of this course, students will be prepared to pursue advanced coursework in either audio and video technology or journalism and broadcasting.

1 credit, Grades 10-12

(6050) AUDIO / VISUAL PRODUCTION II Replaces Broadcasting II

Audio / Visual Production II is offered in the audio and video technology sub-cluster to students who have completed Audio / Visual Production I or obtained instructor's approval. Course content focuses on broadcast production technologies utilizing simulated and/or real-life projects. This course centers on production of various broadcasting products including, commercials, music, news, and interactive programming. The student will gain valuable insight into the many facets of broadcast production, including but not limited to concept creation, scripting, sound design, visual design, engineering, editing, budgeting, and producing, as well as exploring some of the latest advances in industry technology. Upon completion of this course, students will be prepared to pursue advanced coursework.

1 credit, Prerequisite: Audio / Visual Production I

(6083) AUDIO / VISUAL PRODUCTION III Replaces Broadcasting III

Audio / Visual Production III is offered in the Journalism and Broadcasting sub-cluster to students who have completed Audio / Visual Production I and Audio / Visual Production II or obtained the instructor's approval. This course focuses on simulated real-life broadcast production and management. Projects center on in-house production of newscasts, special events, and original programming. The student will gain valuable insight into both audio and video sides of the broadcasting industry. Course content is composed of scripting, reporting, directing, editing, budgeting, and producing, as well as cameras, lights, sound, and set design. This course will explore the latest digital technology and applications, research, and future trends in the broadcast industry. Upon completion of this course students will be prepared to pursue post-secondary education or enter the broadcasting industry in an entry level position. The educational laboratories will assimilate broadcast facilities in the broadcast industry.

2 credits, Prerequisite: Audio / Visual Production II.

(6158) APPLIED ARTS PRACTICUM

The Applied Arts Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Arts, A/V Technology & Communications courses within a professional, working environment. In addition to developing an understanding of the professional and ethical issues encountered by professionals in these careers, students learn to refine their skills in problem solving, research, communication, teamwork, and project management through the completion of a course-long project. The course is highly customizable to meet local system needs. Instruction may be delivered through school laboratory training or through work-based learning arrangements such as internships, service learning, and job shadowing. Upon completion of the practicum, proficient students will be prepared to pursue postsecondary study in arts, a/v technology, or communications programs; or seek additional training or employment with the aid of the portfolio, which documents the student's work completed throughout the program of study.

1 Credit, Open to 12th grade, Prerequisite: Audio / Visual Production III

(6120) FOUNDATIONS OF FASHION DESIGN

This course is to provide students with the foundation to design and create garments. This includes the history of fashion, trend forecasting, the fashion cycle, as well as an understanding of textiles.

1 credit

(6008) FASHION DESIGN

This course is a specialized course designed to introduce students to the world of fashion. Areas of study include fashion fundamentals, principals, and elements of design; career options and preparation; product selection and maintenance; and consumer strategies.

1 credit, Prerequisite: Foundations of Fashion Design

(6009) ADVANCED FASHION DESIGN

This course is designed to provide further study and practice to effectively prepare students with the knowledge, skills, attitudes, and behaviors needed to successfully enter the job market, or to transition to postsecondary education.

2 credits, Prerequisite: Fashion Design

ARCHITECTURE AND CONSTRUCTION

Students must complete **3 units in the same CTE Focus area** in order to complete an elective focus.

Program of Study	Level 1	Level 2	Level 3	Level 4
Architectural & Engineering Design	Architectural & Engineering Design I	Architectural & Engineering Design II	Architectural & Engineering Design III	Engineering Practicum
Interior Design	Visual Art 1	Foundations of Interior Design	Residential Interior Design	Commercial Interior Design

Industry Certification

Cluster	Industry Certification	Industry Certification	Industry Certification
Architectural & Engineering Design	AutoCAD	Solidworks	OSHA 10

(6037) ARCHITECTURAL & ENGINEERING DESIGN I

Students will be using basic concepts of scale drawing and orthographic projections making simple 2 and 3 dimensional drawings using manual drafting tools and computer-aided design (CAD). This course enables a student to make the transition from the drawing board to the use of CAD software by having them make increasingly complicated drawings.

1 credit, Grades 9, 10, 11 and 12

(6039) ARCHITECTURAL & ENGINEERING DESIGN II

Students complete more complex engineering and architectural assignments based on the knowledge and skills learned in Drafting 1 utilizing CAD (Autodesk's Design Academy programs). Students will be working individually and in teams on class projects to create a complete set of architectural construction drawings as well as production and assembly drawings for a mechanical product.

1 credit, Grades 10, 11 and 12, Prerequisite(s): Architectural & Engineering Design I

(5927) ARCHITECTURAL & ENGINEERING DESIGN III- HONORS

Students learn to use a CAD program (Autodesk's Design Academy programs) to create engineering and architectural drawings, assembly drawings, welding and process drawings, cross sections, 3D representations, and bills of materials. Individual drawings with some group projects and increasing complex drawings are emphasized.

1 – 2 credit, Grades 11 and 12, Prerequisite(s): Architectural & Engineering Design II

(6141) ENGINEERING PRACTICUM

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. The course is highly customizable to meet local system needs: instruction may be delivered through school laboratory training or through work-based learning arrangements such as internships, cooperative education, service learning, mentoring, and job shadowing. Upon completion of the practicum, students will be prepared for postsecondary study in engineering and technology fields.

1 credit, Grades 11 and 12, Prerequisite(s): Architectural & Engineering Design III

(6014) FOUNDATIONS OF INTERIOR DESIGN

This course is a specialized course focusing on the interior of living environments. The course includes instruction in the fundamentals of interior design; the application of skills, knowledge, and design principles to the living environment; Interior design occupations and careers; Universal and "green" design, and professional and marketing skills. Instruction includes academic integration and technology applications.

1 credit, Prerequisite: None

(6006) RESIDENTIAL INTERIOR DESIGN

This course is the second level of interior design focusing on residential interior design. The course includes instruction in the fundamentals of interior design; the application of skills, knowledge, and design principles to the living environment; interior design occupations and careers; universal and "green" design; and professional and marketing skills. Instruction includes academic integration and technology applications.

1 credit, Prerequisite: Foundations of Interior Design

(6122) COMMERCIAL INTERIOR DESIGN

This course is the third level of interior design focusing on commercial interior design. The course includes instruction in the fundamentals of interior design; the application of skills, knowledge, and design principles to the living environment; interior design occupations and careers; universal and "green" design; and professional and marketing skills. Instruction includes academic integration and technology applications.

1 credit, Prerequisite: Residential Interior Design

(6121) ADVANCED INTERIOR DESIGN

This course is the fourth level of interior design focusing on commercial interior design. The course includes instruction in the fundamentals of interior design; the application of skills, knowledge, and design principles to the living environment; interior design occupations and careers; universal and “green” design; and professional and marketing skills. Instruction includes academic integration and technology applications.

2 credits, Prerequisite: Commercial Interior Design

BUSINESS MANAGEMENT & ADMINISTRATION, MARKETING, & FINANCE

Students must complete **3 units in the same CTE Focus area** in order to complete an elective focus. *

Program of Study	Level 1	Level 2	Level 3	Level 4
Business Management	Introduction to Business & Marketing	Business Communication and/or Accounting I	Business Management	Business & Entrepreneurship Practicum
Office Management	Computer Applications	Business Communications	Business Management	Advanced Computer Applications
Accounting	Introduction to Business & Marketing and/or Computer Applications	Accounting I	Accounting II	Accounting Dual Enrollment
Marketing Management	Introduction to Business & Marketing	Marketing and Management I: Principles ¹	Marketing and Management II: Advanced Strategies	Business & Entrepreneurship Practicum

¹Satisfies ½ credit of Economics required for graduation.

Industry Certification

Cluster	Industry Certification	Industry Certification	Industry Certification
All Clusters	MOUS Word	MOUS Excel	MOUS PowerPoint

(5910) ACCOUNTING I

Provides students with fundamental accounting skills and theories.

1 credit, Grades 10-12

(5911) ACCOUNTING II

Accounting II is an advanced study of concepts, principles and techniques that build on the competencies acquired in Accounting I used in keeping the electronic and manual financial records of a sole proprietorship, a partnership and a corporation. Departmental, management, cost, and not-for-profit accounting systems are explored.

1 credit, Grades 11-12 Prerequisite: Accounting I

(5891) COMPUTER APPLICATIONS

Provides students with intermediate skills using current Microsoft applications such as Word, Excel, Access, PowerPoint, and Publisher.

1 credit, Grades 9-12

(5904H) ADVANCED COMPUTER APPLICATIONS - HONORS

Capstone course provides students with necessary skills in project-based problem-solving using current technologies, and prepares for industry certification in word processing, spreadsheet, and multimedia Microsoft Office. This course may articulate for college credit. Additional reading and writing assignments may be required.

1 credit, Grades 10-12 Prerequisite: Computer Applications

(5888) BUSINESS COMMUNICATIONS

Business Communications prepares students for oral, written, and electronic communications including skills developed in electronic publishing, design, layout and composition. Emphasis will be placed on design and digital communications using Adobe InDesign and Photoshop.

1 credit, Grades 10-12, Pre-requisite: Intro to Business and Marketing

(5889) BUSINESS MANAGEMENT

Provides students with the fundamentals necessary to initiate and manage a business, including organization, planning, using information, communication, and related careers.

1 credit, Grades 10-12, Pre-requisite: Intro to Business and Marketing

(6159) BUSINESS & ENTREPRENEURSHIP PRACTICUM

Capstone course, which provides students the opportunity to analyze and evaluate the various aspects of business ownership in today’s marketplace.

1 Credit, Open to 11th and 12th grades, Prerequisite: Marketing & Management I Principles

(5905) INTRODUCTION TO BUSINESS and MARKETING

Provides students with introductory business strategies as an initial course for students planning a career in business.

1 credit, Grades 9-12

(5931) MARKETING AND MANAGEMENT I: PRINCIPLES

THIS COURSE CAN SUBSTITUTE FOR THE ECONOMICS CREDIT REQUIRED FOR GRADUATION

Provides students with the study of marketing concepts including marketing foundations/functions, economics, and human resource leadership development.

1 credit, Grades 10-12

(5931H) MARKETING AND MANAGEMENT I: PRINCIPLES – HONORS

THIS COURSE CAN SUBSTITUTE FOR THE ECONOMICS CREDIT REQUIRED FOR GRADUATION

Provides students with the study of marketing concepts including marketing foundations/functions, economics, and human resource leadership development.

Additional reading materials and writing assignments will be required.

1 credit, Grades 10-12,

(5932H) MARKETING AND MANAGEMENT II: ADVANCED STRATEGIES - HONORS

This course is a study of marketing concepts and principles used in management. Students will examine challenges, responsibilities and risks managers face in today's workplace. Subject matter includes finance, entrepreneurship, risk management, marketing information systems, purchasing, human resource skills, and leadership development.

1 credit, Grades 11-12, Pre-requisite: Marketing and Management I: Principles

(6105) WORK-BASED LEARNING

Students must be enrolled in a CTE or General Education class that is related to their job. Students must maintain school attendance of minimum 93%, passing grades in all courses, and be able to legally drive to jobsite. This course allows students to leave the school campus daily to gain real world occupational experience.

1 credit, Maximum 2 credits, Open to 11 and 12 grade. Admission into this class is by application only. A student must have a 93% attendance rate for the semester immediately preceding enrollment in this class. Their place of employment must correlate to their chosen Elective Focus and a significant portion of the hours worked must be during the normal school day.

INFORMATION TECHNOLOGY

Students must complete 3 units in the same CTE Focus area in order to complete an elective focus.*

Program of Study	Level 1	Level 2	Level 3	Level 4
Coding	Computer Science Foundations	Coding I	Coding II Or New Course Mobile App Development	Coding Practicum or AP Computer Science
Web Design	Computer Applications or Computer Science Foundations	Web Design Foundations	Web Site Development	Web Design Practicum or AP Computer Science
Cybersecurity	Computer Science Foundations (6095)	**New Course Cybersecurity I	**New Course Cybersecurity II -	**New Course Cybersecurity Practicum -and/or- AP Computer Science (3635)

Early Post-Secondary Opportunity (EPSO)

Cluster	EPSO	EPSO	EPSO
All above	TCAT IT program	AP Computer Science Principles	AP Computer Science A

(3634) AP COMPUTER SCIENCE PRINCIPLES

This class can substitute for a math class.

Computer science embraces problem solving, hardware, algorithms, and perspectives that help people utilize computers to address real-world problems in contemporary life. As the study of computer science is evolving, the careful design of the AP Computer Science Principles course and exam continues to strive to engage a diverse student population, including female and underrepresented students, with the rigorous and rewarding concepts of computer science. Students who take the AP Computer Science Principles course and exam are well prepared to continue their study of computer science and its integration into a wide array of computing and STEM-related fields.

1 credit, Grades 11-12 Prerequisite: Coding I

(6095) COMPUTER SCIENCE FOUNDATIONS replaces Information Technology Foundations

This course is intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Programming and Software Development, and Web Design. Students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication.

1 Credit, Open to grades 9 – 10

(6100) WEB DESIGN FOUNDATIONS replaces Web Design Foundations I

Provides students with fundamental skills for Web page design using HTML and Web design software such as Dreamweaver, Flash and Photoshop. Includes theory and practical application of the basic web design and development process, project management and teamwork, troubleshooting and problem solving, and interpersonal skill development.

1 credit, Grades 9-12

(6101) WEB SITE DEVELOPMENT replaces Web Page Design Site Designer II

Provides students with project based continuation of Web Design Foundations I. Students will develop Web design skills which include enhancing a Website with sound, audio, video, animation using Dreamweaver, Flash, Javascript and Photoshop.

1 credit, Grades 10-12 Prerequisite: Web Design Foundations

(6171) WEB DESIGN PRACTICUM replaces Web Design Practicum III

This course provides students with the opportunity to apply the skills and knowledge learned in previous Web Design courses toward the completion of an in-depth project with fellow team members. Students will take on more responsibilities for producing independent work of managing processes involved in the planning, designing, refinement, and launch of a website. In addition to developing an understanding of the professional and ethical issues encountered by web design professionals in the workplace, students learn to refine their skills in problem solving, troubleshooting, teamwork, marketing and analytics, and project management. Upon completion of the practicum, proficient students will be prepared for postsecondary study and career advancement in web design.

1 credit, Prerequisite: Web Site Development

(6098) CODING I replaces Programming and Logic I

Provides students with programming language skills using higher level languages such as Java. This course includes an introduction to video game programming.

1 credit, Grades 10-12, Prerequisite: Computer Science Foundations

(6099) CODING II replaces Programming and Logic II

This course in which students will develop advanced skills in problem analysis, construction of algorithms, and computer implementation of algorithms as they work on programming projects of increasing complexity. Emphasis is on actual programming projects, both individual and group.

1 credit, Grades 11-12, Prerequisite: Programming and Logic I

(5908) CODING PRACTICUM replaces Programming and Software Development Practicum

This course is intended to provide students with the opportunity to apply the skills and knowledge learned in previous Programming & Software Development courses toward the completion of an in-depth game programming project with fellow team members. Students who have progressed to this level in the program of study take on more responsibilities for producing independent work and managing processes involved in the planning, designing, refinement, and production of original software applications. Upon completion of the practicum, proficient students will be prepared for

postsecondary study and career advancement in programming and software development, and will be equipped to market their finished product should they choose.

1 credit, Grades 11-12, Prerequisite: Programming and Logic I or II

(6175) CYBERSECURITY I

Cybersecurity I is a course intended to teach students the basic concepts of cybersecurity. The course places an emphasis on security integration, application of cybersecurity practices and devices, ethics, and best practices management. The fundamental skills in this course cover both in house and external threats to network security and design, how to enforce network level security policies, and how to safeguard an organization's information. Upon completion of this course, proficient students will be demonstrating and understanding of cybersecurity concepts, identify fundamental principles of networking systems, understand network infrastructure and network security, and be able to demonstrate how to implement various aspects of security within a networking system.

1 credit, Grades 10-12 Prerequisite: Computer Science Foundations

(6176) CYBERSECURITY II

Cybersecurity II challenges students to develop advanced skills in concepts and terminology of cybersecurity. This course builds on previous concepts introduced in Cybersecurity I while expanding the content to include malware threats, cryptography, wireless technologies and organizational security. Upon completion of this course, proficient students will be demonstrating and understanding of cybersecurity ethical decisions, malware threats, how to detect vulnerabilities, principles of cryptography, security techniques, contingency plan techniques, security analysis, risk management techniques, and advanced methods of cybersecurity.

1 credit, Grades 10-12 Prerequisite: Cybersecurity I

(6177) CYBERSECURITY Practicum

Cybersecurity Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Cybersecurity courses toward the completion of an in-depth project with fellow team members. Students who have progressed to this level in the program of study take on more responsibilities for producing independent work and managing processes involved in the planning, designing, refinement, and production of cybersecurity applications. Upon completion of the practicum, proficient students will be prepared for postsecondary study and career advancement in cybersecurity, and will be equipped to market their finished product should they choose.

1 credit, Grades 10-12 Prerequisite: Cybersecurity II

(6178) MOBILE APP DEVELOPMENT

Mobile App Development is a course intended to teach students the basic concepts and skills of mobile app design. The course places an emphasis on the history of mobile technologies, design and development methodologies, code for mobile applications, application lifecycles, APIs, mobile device controls, user interfaces, deployment, publishing for mobile devices, developer tools, and career development. Upon completion of this course, proficient students will be able to demonstrate and understanding of mobile app development concepts.

1 credit, Grades 10-12, Prerequisite: Programming and Logic I

HEALTHSCIENCE

Students must complete **3 units in the same CTE Focus area** in order to complete an elective focus.*

Upon enrollment into your 3rd Health Science class you are qualified to take the medical terminology dual enrollment test. This test is offered through Vol State for \$10. This test counts as a 3-hour college credit upon passing the test w/ 70% or higher. Students who pass the test must then pay a \$20 transcript fee in order for Vol State to produce the record of the class.

Program of Study	Level 1	Level 2	Level 3	Level 4
Diagnostic Services	Health Science Education	Diagnostic Medicine	Anatomy and Physiology ²	Cardiovascular Services and/or Clinical Internship
Nursing Services	Health Science Education	Medical Therapeutics	Anatomy and Physiology ²	Nursing Education
Emergency Services	Health Science Education	Medical Therapeutics and/or Rehabilitation Careers	Anatomy and Physiology	Emergency Medical Services ¹
Therapeutic Services	Health Science Education	Medical Therapeutics and/or Rehabilitation Careers and/or Diagnostic Medicine	Dental Science I or Anatomy & Physiology or Pharmacological Science or Nutrition Science&Diet Therapy	Anatomy and PhysiologyII ² or Dental Science II or Clinical Internship
Exercise Physiology	Health Science Education	Rehabilitation Careers	Exercise Science	Anatomy and Physiology ² and/or Clinical Internship

¹Local dual credit and/or dual enrollment opportunities exist for this course.

² Satisfies one lab science credit required for graduation.

Industry Certification

Cluster	Industry Certification	Industry Certification
Diagnostic Services	Certified Cartographic Technician (CCT)	
Exercise Physiology	Personal Trainer	
Nursing Services	Certified Nurse Technician (CNT)	
Therapeutic Services	Certified Pharmacy Technician (CPT)	NELDA Dental Assistant

(5998) HEALTH SCIENCE EDUCATION

This is the first course offered in the health science cluster. It is designed to give students an overview of the medical field and what careers are available. Students will complete Friends and Family CPR, assessment skills such as vital signs, basic nutrition, and leadership development through HOSA activities. After completion of this course students will select a program of study to follow until their senior year. The programs of study include: Nursing, Sports Medicine/Physical Therapy, Emergency Medical, Biomedical/Forensics, and Diagnostic Services.

1 credit, Recommended Grade Level(s): 9-11

(5999) MEDICAL THERAPEUTICS

Explores career opportunities and issues in health care while focusing on leadership development, anatomy and physiology, medical microbiology, pharmacology, and basic skills. Upon successful completion of this course, students will have basic skills, such as checking blood pressure, and will be taught the basics of lifesaving techniques such as CPR and first aid.

1 credit, Recommended Grade Level(s): 10-12

(5991H) ANATOMY AND PHYSIOLOGY - HONORS *(This course may substitute for a laboratory science credit.)*

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

1 credit, Grade Level(s): 11 and 12, Prerequisites: Biology 1

5991HB) ANATOMY AND PHYSIOLOGY II - Honors (*This course may substitute for a laboratory science credit.*)

This class is recommended for those going into advanced degrees in Health Science.

Health Science Education Anatomy and Physiology II is a course in which students will continue to examine human anatomy and physical functions paying particular attention to how the different system interact. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A workable knowledge of medical terminology will be demonstrated.

1 credit, Grade Level(s): 11 and 12, Pre-requisites: Anatomy and Physiology I

(6131) CARDIOVASCULAR SERVICES

This course is designed for students interested in specific diagnosis and treatment of patients with cardiac and peripheral vascular disease. Upon successful completion students will have an understanding of the roles and responsibilities of those seeking employment in the cardiovascular field of healthcare. Upon completion of this course, students will be proficient in the anatomy and physiology of the heart and knowledgeable about both invasive and non-invasive cardiovascular procedures. Students who complete a clinical internship in addition to this course will be eligible upon graduation to sit for the Certified Cartographic Technician (CCT) exam; relevant standards are indicated below with (CCT).

1 credit, Grade Level(s): 11 and 12, Prerequisites: Diagnostic Services

(6134) DENTAL SCIENCES

This course is designed to prepare students with an understanding of the roles and responsibilities of the dental health care worker within the application of dental care. Upon completion of this course, students will be able to differentiate the many careers in dentistry; assess, monitor, evaluate, and report on the dental health of patients/clients, and relate this information to overall health; apply appropriate dental terminology; and perform clinical supportive skills. They will incorporate communication, goal setting, and information collection skills to be successful in the workplace. In addition, students will continue to build their health science career portfolio with artifacts produced in this course.

1 credit, Grade Level(s): 11 and 12 Prerequisites: Placement in this class is by application only. Must have 2 credits in Health Science prior to enrollment.

(6134B) DENTAL SCIENCES II

This course is designed to prepare students with an understanding of the roles and responsibilities of the dental health care worker within the application of dental care. Upon completion of this class leads to being able to take the NELDA Industry Certification.

1 credit, Grade Level(s): 11 and 12 Prerequisites: Dental Sciences I and Placement in this class is by application only for limited spaces..

(5994) DIAGNOSTIC MEDICINE

Designed for students interested in medicine. Includes the study of cardiology, imaging, the medical laboratory, radiology, and other forms of diagnostic medicine. Upon successful completion, students will be able to perform basic medical diagnostic skills.

1 credit, Recommended Grade Level(s): 10, 11 and 12

(5995) EMERGENCY MEDICAL SERVICES

This course is designed for students who are interested in becoming involved with emergency care which includes, but not limited to, EMT/paramedic or ER nurse. First responder certification offered based on teacher training. Students will be recertified in BLS CPR. Upon successful completion students will be able to perform basic EMS skills such as: wound care and advanced first aid. Students will also have the opportunity to participate in the yearly mock crash scene.

1 credit, Grade Level(s): 11 and 12, Prerequisite: Health Science Ed and 1 additional class in the Health Science Cluster

(6170) EXERCISE SCIENCE

Exercise Science is an applied course designed to prepare students to pursue careers in kinesiology and exercise physiology services. Upon completion of this course, proficient students will be able to apply concepts of anatomy and physiology, physics, chemistry, bioenergetics, and kinesiology to specific exercise science contexts. Through these connections students will understand the importance that exercise, nutrition, and rehabilitation play in athletes or patients with debilitating or acute metabolic, orthopedic, neurological, psychological, and cardiovascular disorders. In addition, students have the opportunity to incorporate communication, goal setting, and information collection skills in their coursework in preparation for future success in the workplace.

1 credit, Recommended Grade Level(s): 11 and 12 Prerequisite: Rehabilitative Careers Co-Requisite Anatomy and Physiology

(6000) NURSING EDUCATION - HONORS

Focuses on the study of dealing with direct bedside nursing care. Includes clinical experience and supervised practice in a nursing home setting. Upon successful completion, the student will be eligible to take the state exam for Certified Nursing Technician.

1 credit, Recommended Grade Level(s): 11 and 12, Prerequisite: Placement in this class is by APPLICATION only. Required: 2 Health Science credits. Due to site requirements: drug screening, proof of immunization plus a TB Skin test will be required to participate. A 90% attendance rate is required for credit. Limited space available.

(6133) PHARMACOLOGICAL SCIENCES

This course is designed to provide the technical instruction and skill development for the student to become gainfully employed in the pharmacy field. The purpose of the Pharmacy Technician program is to provide learning experiences which enable graduates to obtain basic competencies needed for employment as a Pharmacy Technician in either the institutional or retail setting. A technician is an individual who, under the supervision of a pharmacist, assists in the performance of activities of the pharmacy department not requiring the professional judgment of a pharmacist.

Technicians must be appropriately trained for functions performed. Upon successful completion of this course and graduation from High School, the student will be eligible to take the state exam for Certified Pharmacy Technician.

1 credit, Grade Level(s): 11, and 12, a 90% attendance rate is required in order to receive credit in this class.

(5990) REHABILITATION CAREERS

This course is designed for students interested in various therapies which include, but not limited to, physical therapy, occupational therapy, or sports medicine/athletic training. Upon successful completion students will gain skills in ankle taping and other prevention taping, rehab of injuries, nutrition, and personal fitness. Students completing this class can apply to the clinical internship class their senior with the completion of A&P.

1 credit, Recommended Grade Level(s): 10, 11, and 12

(5993) CLINICAL INTERNSHIP

The internships are designed to be completed in a hospital, nursing home, rehab center, medical office, dental office, or other health care facility depending on the elective focus the student has selected.

1 credit, Recommended Grade Level(s): 11 and 12, Prerequisites: Placement in this class is by application only. Drug screenings, immunization, TB skin test, and physicals may be required before you participate in certain rotations. A 90% attendance rate is required in order to receive credit in this class. Students must have completed two health science classes with one of them being from any health science.

HUMAN SERVICES/TEACHING AS A PROFESSION

Students must complete 3 units in the same CTE Focus area in order to complete an elective focus.*

Program of Study	Level 1	Level 2	Level 3	Level 4
Social Health Services	Introduction to Human Studies	Lifespan Development	Family Studies	Human Services Practicum
Dietetics and Nutrition	Introduction to Human Studies	Nutrition Across the Lifespan	Nutrition Science and Diet Therapy ²	Human Services Practicum
Teaching as a Profession (K-12)	Fundamentals of Education	Teaching as a Profession I	Teaching as a Profession II	Teaching as a Profession III

² Satisfies one lab science credit required for graduation.

(6137) INTRODUCTION TO HUMAN STUDIES

The Introduction to Human Studies course is designed to focus on learning to make decisions, set priorities, understanding physical and emotional development during adolescence, coping with pressures, managing personal resources, using consumer information, developing positive interpersonal relationships, establishing a satisfying living environment while planning for a healthy lifestyle – including dietary options, nutrition and fitness, self-grooming; and exploring career options.

1 credit,

(6013) LIFESPAN DEVELOPMENT (Child and Lifespan Development)

The Lifespan Development course is designed to prepare students to understand the emotional, intellectual, moral, physical, and social growth and development throughout the lifespan of a child. Instructional content includes child development theories and research, prenatal development, the study of infants, toddlers, preschoolers, school age children through adolescence; while exploring related careers.

1 credit,

(6136) FAMILY STUDIES (Family and Parenting Education)

Family Studies is an applied knowledge course that examines the diversity and evolving structure of the modern family. Course standards focus on the demographic, historical, and social changes of interpersonal relationships, as well as parenting, and the effect of stressors on the family.

1 credit

(6138) HUMAN SERVICES PRACTICUM

Human Services Practicum is a capstone course in the human services cluster that provides a practicum 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 human

services cluster. The essential knowledge and skills of these courses include 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.

1 credit, Prerequisite: Family Studies or Nutrition Science and Diet Therapy

(6005) NUTRITION ACROSS THE LIFESPAN (Nutrition and Foods)

Interested in food preparation, dietetics, or nutrition? Want to know what happens to food once it goes in your body? This course covers basic food preparation skills, nutrition requirements, digestion, and more!

1 credit, Prerequisite: Introduction to Human Studies

(6007) NUTRITION SCIENCE AND DIET THERAPY (Nutrition Science)

This course may substitute for a science credit.

Nutrition and Diet Therapy is an applied knowledge course in nutrition for students interested in the role of nutrition in health and disease. The course covers the development of a nutrition care plan as part of the overall health care process. Methods for analyzing the nutritional health of a community are explored. Finally, the relationship of diet and nutrition to specific diseases will be researched including the role of diet as a contributor to disease and its role in the prevention and treatment of disease.

1 credit, Recommended Grade Level(s): 10 and 11, Prerequisite: Nutrition Across the Lifespan

(6123) FUNDAMENTALS OF EDUCATION

The Fundamentals of Education course is designed to assist interested students in learning more about becoming involved in careers relating to the field of education. This course covers the history of education in the United States, careers in education, and the influence of human development on learning. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

1 credit

(6010) TEACHING AS A PROFESSION I

Teaching as a Profession I is an applied-knowledge course for students interested in learning more about becoming a school counselor, teacher, librarian, or speech-language pathologist. This course covers the components of instruction, teaching strategies, types of assessments, student learning, special populations, and educational technology. Students in this course will conduct observations of educators at work and create artifacts for a course portfolio.

1 credit, Prerequisite: Foundations of Education

(6125) TEACHING AS A PROFESSION II

Teaching as a Profession II is an applied knowledge course for students interested in learning more about becoming a teacher, school counselor, librarian, or speech-language pathologist. This course covers classroom management, concepts of higher order thinking, differentiating instruction, and strategies of effective classroom planning.

1 credit, Prerequisite: Teaching as a Profession I

(6126) TEACHING AS A PROFESSION III

Teaching as a Profession III is a capstone course in the Education and Training Cluster for students interested in learning more about becoming a teacher, school counselor, librarian, or speech-language pathologist. The course covers classroom professionalism, ethics, policies, communications, and career requirements in education fields. In addition, students will complete an internship and continue to create artifacts for their student portfolios.

1 credit, Prerequisite: Teaching as a Profession II

STEM

Students must complete **3 units in the same CTE Focus area** in order to complete an elective focus.*

Program of Study	Level 1	Level 2	Level 3	Level 4
Engineering	Principles of Engineering and Technology	Engineering Design I	Engineering Design II	Engineering Practicum
Robotics	Principles of Engineering and Technology	Digital Electronics	Robotics & Automated Systems	Engineering Practicum
Unmanned Aerial Systems	Principles of Engineering and Technology	Unmanned Aerial Systems I	Unmanned Aerial Systems II	

Industry Certification

Cluster	Industry Certification	Industry Certification	Industry Certification
Engineering	Solidworks	OSHA 10	
Robotics	Solidworks	FANUC	OSHA 10

(5924H) PRINCIPLES OF ENGINEERING AND TECHNOLOGY HONORS

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

1 Credit, Open to 9th -11th grades

(6139H) Engineering Design I HONORS

Engineering Design I is a fundamental course in the STEM cluster for students interested in developing their skills in preparation for careers in engineering and technology. The course covers essential knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to describe various engineering disciplines, as well as admissions requirements for postsecondary engineering and engineering technology programs in Tennessee. They will also be able to identify simple and complex machines; calculate various ratios related to mechanisms; explain fundamental concepts related to energy; understand Ohm's Law; follow the steps in the engineering design process to complete a team project; and effectively communicate design solutions to others.

1 Credit, Open to 9th and 10th grades, Prerequisite: Principles of Engineering and Technology

(6140H) ENGINEERING DESIGN II HONORS

Engineering Design II is an applied course in the STEM career cluster for students interested in further developing their skills as future engineers. This course covers knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to explain the differences between scientists and engineers, understand the importance of ethical practices in engineering and technology, identify components of control systems, describe differences between laws related to fluid power systems, explain why material and mechanical properties are important to design, create simple free body diagrams, use measurement devices employed in engineering, conduct basic engineering economic analysis, follow the steps in the engineering design process to complete a team project, and effectively communicate design solutions to others.

1 Credit, Open to 10th and 11th grades, Prerequisite: Engineering Design I

(6141H) ENGINEERING PRACTICUM HONORS

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. The course is highly customizable to meet local system needs: instruction may be delivered through school laboratory training or through work-based learning arrangements such as internships, cooperative education, service learning, mentoring, and job shadowing. Upon completion of the practicum, students will be better prepared for postsecondary study in engineering and technology fields.

1 Credit, Open to 11th and 12th grades, Prerequisite: Engineering Design II

(5925H) DIGITAL ELECTRONICS HONORS

Digital Electronics is a course in which students will construct and test fundamental digital logic circuits such as gates, counters, oscillators, and switches. A/D and D/A converters will be applied to signal processing. Microcontroller programs will be modified and microcontrollers applied to closed-circuit control systems. The course culminates in a group project to create a digital servo control loop. Emphasis is on hands-on activities, real-world equipment, and current technology.

1 Credit, Open to 10th, 11th and 12th grade, Prerequisite: Principles of Engineering and Technology

(6143H) ROBOTICS & AUTOMATED SYSTEMS HONORS

Robotics & Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in industry. Building on the content and critical thinking frameworks of Principles of Engineering and Digital Electronics, this course asks students to follow the engineering design process and apply basic programming skills to complete assignments and projects. Upon completion of this course, proficient students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems.

1 Credit, Open to 11th and 12th grade, Prerequisite: Digital Electronics

(23162H) UNMANNED AERIAL SYSTEMS I

Unmanned Aerial Systems I course focuses on the study of industry equipment, safety rules and regulations, and technology advancements. Students will demonstrate flight skill motor development and create an autonomous flight plan and participate in its execution. Additional subject matter includes history and evolution of Unmanned Aerial Vehicles, pre-flight, normal in-flight, post-flight, emergency in-flight, Global Positioning System (GPS), and current/future developments.

1 Credit, Open to 9th and 10th grades, Prerequisite: Principles of Engineering and Technology

(23163H) UNMANNED AERIAL SYSTEMS II

This course continues to focus on the study of industry equipment, safety rules and regulations, and technology advancements. Students will demonstrate flight skill motor development, explain the role of each member of a flight crew and create an autonomous flight plan and participate in its execution. Additional subject matter includes history and evolution of Unmanned Aerial Vehicles, pre-flight, normal in-flight, post-flight, emergency in-flight, Global Positioning System (GPS), and current/future developments. This course is designed to prepare a student to be licensed as an Unmanned Aerial System Pilot.

1 Credit, Open to 9th and 10th grades, Prerequisite: Unmanned Aerial System I

LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY

Students must complete **3 units in the same CTE Focus area** in order to complete an elective focus. *

Program of Study	Level 1	Level 2	Level 3	Level 4
Law Enforcement Services	Criminal Justice I	Criminal Justice II	Criminal Justice III: Investigation	Criminal Justice Practicum

² Local dual credit and/or dual enrollment opportunities exist for this course.

Early Post-Secondary Opportunities (EPSO)

Cluster	EPSO	EPSO	EPSO
Law Enforcement Services	Criminal Justice I	Criminal Justice II	Criminal Justice III

(5987) CRIMINAL JUSTICE 1

Criminal Justice 1 provides an overview of our legal system including corrections, juvenile courts and law, ethics, constitutional issues, legislation, theories and principles of criminal law, law enforcement, history and philosophy of the court system, and alternate programs. For students interested in pre-law, corrections, forensics and law enforcement. The course includes guest speakers, mock-police academy, and mock trials.

1 credit, Recommended Grade Level(s): 9 and 10 or teacher recommendation

(5988) CRIMINAL JUSTICE 2

Criminal Justice 2 will offer an in-depth study of criminal investigations and will highlight the training and education needed to compete for jobs within these careers. Current and future investigative techniques as well as crime scene investigation methods will be presented and students will have opportunities to participate in mock-trials and mock-crime scenes with criminal justice careers emphasis.

1 credit, Prerequisite: One (1) CJ Course or teacher recommendation for placement; Recommended Grade Level(s): 10 and 11

(5989) CRIMINAL JUSTICE 3: INVESTIGATION

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

1 credit, Open to grade 11 and 12, Prerequisite: Two previous CJ courses or teacher recommendation for placement.

(6194) Criminal Justice Practicum

WBL CJ is designed to allow students who have met their elective focus in Criminal Justice the opportunity to spend the Spring Semester of their Senior year conducting an in-depth study of a Criminal Justice career of their choosing. Students will travel outside the classroom during their research gathering for more context, detail, and real-life learning as they job-shadow with Criminal Justice career professionals in an authentic workplace environment. This course requires students to complete an application in addition to registering for the course and the teacher prior to placement must approve all students.

Students must maintain school attendance of minimum 90%, passing grades in all courses, and be able to legally drive to jobsite. This course allows students to leave the school campus daily to gain real world occupational experience.

1 credit, Maximum 2 credits, Open to 12th grade. Admission into this class is by application only. A student must have a 93% attendance rate for the semester immediately preceding enrollment in this class. Their place of employment must correlate to their chosen Elective Focus and a significant portion of the hours worked must be during the normal school day.

Dual Enrollment Classes Offered through the TCAT Hartsville

Registration and Enrollment Procedure

A. Selection Criteria

1. An application must be submitted with a minimum of 2 reference letters
2. Attendance and discipline records will be reviewed to determine if a student has a 90% attendance rate and no major discipline infractions

B. Enrollment Procedure

1. TCAT enrollment is required
2. Placement will be done by a committee of school personnel
3. A mandatory parent meeting will be held in the Spring of 2018
4. Students will provide their own equipment if required and must purchase their own textbooks for these classes.

Program of Study	Level 1	Level 2	Level 3	Level 4
Welding	Principles of Manufacturing (5922)	Welding I (6078)	Welding 2 (6033)	Manufacturing Practicum (5926)
Networking Systems	Computer Science Foundations (6095)	Computer Systems (6094)	Networking (6097)	Cabling and Internetworking (6093)
Mechatronics	Principles of Manufacturing (5922)	Mechatronics DE (4063DE)	Mechatronics DE (4063DE)	

(5922) (4059DE) PRINCIPLES OF MANUFACTURING

Principles of Manufacturing is designed to provide students with exposure to various occupations and pathways in the Advanced Manufacturing career cluster, such as Machining Technology, Electromechanical Technology, Mechatronics, and Welding. In order to gain a holistic view of the advanced manufacturing industry, students will complete all core standards, as well as standards in two focus areas. Throughout the course, they will develop an understanding of the general steps involved in the manufacturing process and master the essential skills to be an effective team member in a manufacturing production setting. Course content covers basic quality principles and processes, blueprints and schematics, and systems. In addition, proficient students will advance from this course with a nuanced understanding of how manufacturing combines design and engineering, materials science, process technology, and quality.

2 Credits, Open to 11th and 12th grades

(4063DE) MECHATRONICS Dual Enrollment

Mechatronics is an applied course in the manufacturing cluster for students interested in learning more about careers as a mechatronics technician, maintenance technician, electromechanical technician, and manufacturing engineer. This first of two courses covers basic electrical and mechanical components of mechatronics systems as well as their combined uses with instrument controls and embedded software designs. Upon completion of this course, proficient students are able to describe and explain basic functions of physical properties and electrical components within a mechatronic system. They can logically trace the flow of energy through a mechatronic system and can communicate this process to others. They know how to effectively use technical documentation such as data sheets, schematics, timing diagrams, and system specifications to troubleshoot basic problems with equipment. Finally, they develop strategies to identify, localize, and correct malfunctioning components and equipment.

2 Credits, Open to 11th and 12th grades

(6078) (4062DE) WELDING I

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. Upon completion of the *Welding I* course, students will understand the requirements to pursue the American Welding Society (AWS) Entry Welder qualification and examination and will be prepared to undertake more advanced welding coursework.

2 credit, Open to 11th and 12th grades, Prerequisites/ Co requisites: Principles of Manufacturing (5922)

(6905) (4112DE) COMPUTER SCIENCE FOUNDATIONS

This course is intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Programming and Software Development, and Web Design. Students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication.

2 Credit, Open to grade 12, Prerequisite: Algebra I and Computer Apps and Advanced Computer Apps

(6094) (4113DE) COMPUTER SYSTEMS

Computer Systems is designed to prepare students with work-related skills and for certification in the information technology industry. Content provides students the opportunity to acquire knowledge and skill in both theory and practical applications pertaining to troubleshooting, replacing, installing, and upgrading computers. Upon completion of the course students will possess a thorough knowledge of modern personal computer hardware. Procedures used in this course will evaluate students in theory and practical applications through written, hands-on, and computer-based virtual simulations. Successful mastery of the course content will prepare students to concentrate in computer support, which will prepare students with skills in PC repair, diagnostics, and installation to obtain the IT industry standard, CompTIA's A+ certification.

2 credit, Open to grade 12, Co-Requisite: Information Technology Foundations

(6097) (4114DE) NETWORKING

Networking stresses the conceptual and practical skills necessary to design, manage, and diagnose network hardware and software. Course content, which is of the project-based format, allows students to interconnect workstations, peripherals, terminals, servers, and other networking hardware devices creating a typical infrastructure where all components communicate using the same language or protocols. This course will help prepare students to design, build, and maintain computer networks. The networking sub-cluster will help prepare students for the CompTIA Network + examination (2009 objectives) and cover the Cisco Certified Networking Associates (CCNA) Essentials exam. Mastery of course competencies will prepare students for successful completion of the Network + exam and promote fundamental skills for employment as a Network Administrator or Network Engineer.

2 Credit, Open to grade 12, Prerequisite: Information Technology Foundations and Computer Systems