



TYLER ISD

SUCCESSFUL STUDENT OUTCOMES

**High School
Course Guide
2019-2020**

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YOUR CHOICES:

The 2019-2020 Edition

As a Tyler ISD high school student you are encouraged to give careful consideration to the selection of your courses for the 2019-2020 school year. You should choose courses that prepare you for the future by choosing an academically challenging curriculum.

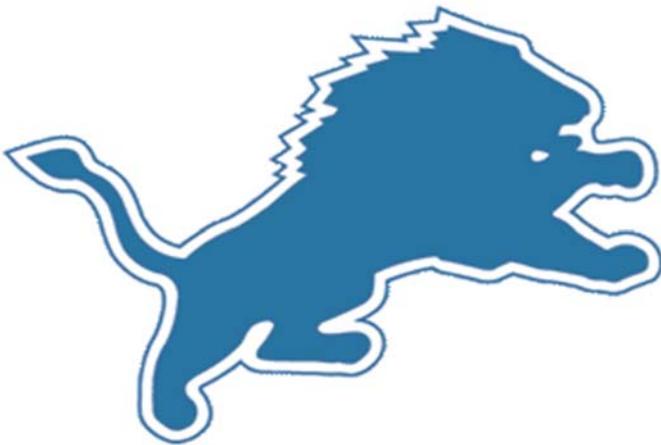
The guidance staff will be your partner to monitor your progress toward graduation during your high school years. However, it is very important that you and your parents take responsibility for ensuring all graduation requirements are completed in a timely fashion. You must earn 26 credits to meet Tyler ISD graduation requirements. Additionally, a student may not receive a high school diploma until the student has performed satisfactorily on required state assessments. Course planning and registration is important. You should select courses and programs that match your interest, your academic abilities, and your post-secondary goals. Careful consideration should be given to the combination of courses selected and the demand on time for studying, practicing, performing, or competing. Counseling staff are available to advise you and your parents as you plan courses to meet state graduation requirements and your career goals.

Under House Bill 5, students are now under the new Foundations plan with Endorsement or Distinguished Level of Achievement Plan. Freshmen entering high school in 2014 or after are required to complete the graduation plan set forth by House Bill 5. Any questions regarding graduation plans should be directed toward your high school counselor.

Choices you make during high school years will determine the choices available to you for the rest of your life. Additional education or training gained through college, post-secondary education, technology training, military service, and vocational training can open up a world of opportunities. You should set goals that extend beyond high school and focus on what you need to do now in order to have the tools to reach those goals.

The Tyler ISD Program of Studies lists courses and programs that John Tyler and Robert E. Lee generally make available to students. It should be noted, however, that not all of the courses listed are scheduled every year, since it is not economically feasible to schedule classes in which only a few students enroll. Sufficient numbers of student requests for specific courses become a determining factor in the course being offered.

*****Disclaimer: State and local policy supersedes all statements in this course selection guide.*****



ESSENTIALS FOR GRADUATION

Tyler ISD students must meet or exceed the standards for graduation in three categories as follows:

Attendance

Policy FDD (LOCAL) states, “Students in grade 6-12 must be in attendance 90 percent of the days a class is offered to receive credit for the course.” For the purposes of credit, there is no difference in an excused or an unexcused absence.

Course/State Assessment Requirements

All students shall complete a minimum of 26 units of credit as outlined in the state graduation plans in order to receive a high school diploma.

Required Exit Level Test – High school graduation requirements include the successful completion of the state mandated End of Course Exams.

Graduation

TISD does not award certificates of course completion. Only students who have met all state requirements may participate in commencement ceremonies. Students and parents must share the responsibility for monitoring progress toward meeting graduation requirements.

STATE GRADUATION PLANS

Students in Tyler ISD are required to plan their high school studies to meet the expectations of the Foundations with Endorsement Plan. The program provides the comprehensive background of coursework required by institutions of higher education and major employers in the business world. However, students are strongly encouraged to contact colleges or universities of their choice regarding specific entrance requirements.

- **College readiness.** Many colleges and universities require the Foundations with Endorsements for admission. In addition, students ranked in the top 10 percent of their graduating class from an accredited Texas public high school are eligible for automatic admission to most Texas public universities if they have completed the Distinguished Level of Achievement Program (DLA).
- **Recognition.** The Distinguished Achievement Program seal will be affixed to the Academic Achievement Record (AAR), or transcript.
- **Test results.** Research suggests that students who take additional English, math, social studies and science courses make higher scores on the SAT® or ACT® college entrance exams.

EARLY GRADUATION

A student who completes graduation requirements in fewer than four years shall be ranked in the class with which he or she actually graduates.

To be eligible to graduate early, a student must complete all course work and exit-level testing required of the ninth grade class in which he or she begins high school. This means the student must earn a diploma under the Foundations Plan with at least one (1) Endorsement.

A student wishing to graduate from high school in fewer than four years must complete and submit a written application to his/her counselor prior to the conclusion of the third semester of high school (generally the middle of the sophomore year). Written parental approval shall be submitted with the application. The student shall receive advisement regarding requirements and schedules. Applications for early graduation will be reviewed by the campus principal for final approval.

Early graduates shall be eligible for honors positions if they are reclassified before the senior year. However, a student who meets the requirements of the Early High School Graduation Scholarship Program under the Education Code 56.203 at the end of summer school shall not be ranked within a graduating class.

CLASS RANK AND STANDING

Class rank includes most core area courses and courses in Languages Other Than English, as outlined in the High School Grading Handbook [Policy EIC (LOCAL)]. If a student transfers into TISD with letter grades, these grades will be converted and recorded on the academic achievement record. For further information, please see TISD local policy code.

CLASS RANK

Rank in class is determined by a cumulative weighted numerical average of semester grades for the designated core area courses and courses in Languages Other Than English mentioned in the previous paragraph. This cumulative weighted average is for local ranking purposes only and is weighted as follows:

- On-level Courses - - Numerical average
- Pre-AP Courses - - Numerical average plus 5 points
- AP Courses - - Numerical average plus 10 points
- Dual Credit Courses - - Numerical average plus 10 points

Courses with a modified curriculum do not count toward class rank.

Pre-AP, AP, and Dual Credit weighted points are not reflected on a student's report card or transcript. **The weighted points are used for local ranking purposes only.**

VALEDICTORIAN AND SALUTATORIAN

The graduate with the highest cumulative weighted GPA shall be designated as the Valedictorian. The graduate with the second highest cumulative weighted GPA shall be designated as the Salutatorian. To be eligible for Valedictorian or Salutatorian honors, a student must have been initially and continuously enrolled in the assigned school for the four regular semesters (fall and spring) preceding graduation and must have completed the Distinguished Achievement Program for Graduation.

OTHER OPTIONS FOR ACQUIRING CREDIT

In addition to the campus course offerings during the regular school year, students in TISD have the options of summer school, credit-by-examination, and correspondence courses for acquiring credit towards graduation requirements. (Note: only two credits may be acquired through correspondence courses). For additional information please refer to the TISD Secondary Grading Handbook

Postsecondary Readiness

According to the state accountability system a graduate is deemed to be “Postsecondary Ready” if he/she graduates on the Foundation High School Plan with Endorsement (FHSP-E) **OR** Foundation High School Plan with Distinguished Level of Achievement (FHSP-DLA) **AND** meets at least one of the following criteria:

- Complete CTE-Coherent Sequence of courses/earn industry (nationally recognized) certification
- Perform at or above criterion score on one or more AP examinations
- Complete 12 hours or more of earned postsecondary credit
- Achieve [TSI benchmark scores](#) on the TSI, SAT, or ACT
- Enlist in the U.S. armed forces

Summer School

Students who did not receive credit in a course due to a failing grade or excessive absences may repeat courses in the four core curriculum areas of English Language Arts, mathematics, science, and social studies. Courses are offered based on enrollment and availability of teaching staff.

Credit By Examination (CBE)

Students may take credit by examination to receive credit for high school courses. Credit by examination is offered each year during the summer. Students must score eighty (80) or better to receive credit in a course for which they have had no prior instruction. If a student has had prior instruction the course, he/she may take a credit by examination but must make a grade of seventy (70) or above to receive credit. See your counselor for information on the application process. Examination dates, fees and registration information may also be found on the TISD website under Assessment.

Local Credit Courses

The District may offer courses for local credit. Such courses shall not be counted toward state graduation requirements but may be counted toward local unit credit in addition to state graduation requirements.

Non Credit Courses

Seniors, who have passed all required End-of-Course examinations and are on track for graduation may choose to take one block off daily. This time can be used to attend college, to study, or to work. No credit is awarded for senior early release periods. Students may also serve as an office, teacher, counselor, or library aide. No credit is awarded for an aide position.

ADMISSION TO COLLEGE

The student who plans to attend college after high school graduation should begin early to plan a course of study to assure acceptance by the college or university of his/her choice. Students must graduate on the Distinguished Achievement program or the Foundation with Endorsement graduation plan to apply to a 4-year college or university right out of high school. Once the student has made a definite choice of the school he/she plans to attend, it is advisable to keep in contact with the school's admission office; by doing so, the student will know well in advance any entrance requirement changes. Generally, college admission is based on a specific high school curriculum, rank in class, and scores on college entrance exams. Most colleges post their catalogs to their websites.

The following examinations are administered during high school to demonstrate college-readiness and level of preparation for entrance into college:

- **PSAT-NMSQT** – This test, administered in mid-October of each year, is designed to aid juniors in estimating their ability to do college-level work and to guide them in making their college plans. National Merit and Commended Student status is determined based on PSAT scores earned during the junior year administration. PSAT scores are also used by many industries, private foundations, and universities for scholarship purposes. There are fees associated with this assessment.
- **ACT and SAT** – The Association of Texas College and Universities has approved a statewide system of testing prospective college students for the purpose of admission and counseling. Students should determine which test is required or preferred by the institutions they are considering to attend. These tests are administered several times during the year on Saturdays. Each of the tests requires advanced registration and payment of a testing fee prior to the actual exam administration (approximately one month in advance).
- **Advanced Placement (AP) Examinations** – Students enrolled in AP courses are expected to take the corresponding AP exam. These exams are administered each May in multiple subject areas with variable fees. Because AP courses are introductory college-level courses, the program promotes colleges and university policies that grant college credit and/or advanced standing to students with strong AP examination results (scores of 3, 4, or 5). Each university makes its own policy as to what is an acceptable score. It is advisable to take AP courses to prepare for AP exams. There are fees associated with these assessments.
- **Texas Success Initiative (TSI)** – The TSI is a measure of college readiness given to high school students. Students who are planning to take dual credit courses during their high school years must take and pass the TSI to be eligible. The following are performance exemptions for the TSI exam:
 - **ACT** – Obtaining a composite score of 23 or higher, with English and math score of 19 or higher.
 - **SAT** – For students taking the SAT prior to March 2016, they need a critical reading and math combined score of 1070, with verbal and math 500 or higher. For students taking the SAT after March 5, 2016, they need a math score of 530, a reading score of 480 and a writing score of 480. No composite score is needed.
 - Students who do not meet the minimum score on the TSI will be placed in a TSI preparation course, which, upon successful completion, will serve as eligibility to attend college-level courses with Tyler Junior College after high school graduation.

Minimum scores for TSI testing are:

- Mathematics 350
 - Reading 351
 - Writing Placement score of at least 340 and an essay score of at least 4
- Or
- Placement score of less than 340 and an ABE Diagnostic level of at least a 4 and an essay score of at least a 5

FINANCIAL AID

Financial aid can make higher education at a college, university, or technical school more accessible. The basic types of student aid are grants, scholarships, loans, tuition exemptions, and work-study. Sources of financial assistance include the federal and state governments, local banks, or credit unions, civic or church groups, student's and parents' employers or unions, and the college itself. When you request information from colleges, remember to ask for financial aid information, forms, and instructions. Some funds are limited and awarded on a first-come, first-serve basis, so

apply early in your senior year. Pay attention to all published deadlines. Your best source of information is the financial aid office at the college you wish to attend.

Free Application for Federal Student Aid (FAFSA)

All colleges will ask you to file a FAFSA if you are applying for financial aid. You must complete the FAFSA online as soon as possible after October 1st of your senior year. Student and parent income tax returns must be available when completing the FAFSA. Information from this form is used to determine eligibility for federal and state aid. You will need to work closely with the college financial office at the college you plan to attend. To apply for federal financial aid, you must:

- Be a U.S. citizen, permanent resident or eligible non-citizen.
- Have a valid Social Security number.
- Register with the Selective Service, if required.
- Have a high school diploma or a GED, and
- Be enrolled or accepted as a regular student working toward a degree or certificate in an eligible program.

The Texas Financial Aid Information Center (TFAIC) is a free public service available to all Texas students and families wanting to pursue a higher education. Created in 1999, TFAIC is a collaborative effort between the Texas Higher Education Coordinating Board and TG. <http://www.tgsic.org> or 1-888-311-8881.

Scholarships

The freshman year is the time to start preparing for the stiff competition for scholarships that students face in their senior year of high school. Involvement in extra-curricular activities, community activities, clubs, organizations, and volunteer work are of vital importance in the pursuit of scholarships. Preparation includes taking a rigorous foundation of academic courses. This will enable you to score higher on ACT and SAT exams by being better prepared. ACT/SAT exams should be initially taken in the spring of the junior year. ACT/SAT scores, class rank, grade point average (GPA), and involvement are key factors in scholarship competitions. Additional ACT/SAT exams should be taken as need to boost scores. Students are encouraged to keep a detailed list of activities each year for reference as a senior when applying for college admissions and scholarships.

Texas Grant Program (Contingent on funding)

Students graduating under the Distinguished Achievement Program or the Foundations with Endorsement Plan may be eligible for the Texas Grant. Eligible students must complete the Free Application for Federal Student Aid (FAFSA) in early spring of their senior year to determine financial need. For information about the Texas Grant and other financial aid options, contact the Texas Financial Aid Information Center by calling 1-888-311-8881 (toll free) or visiting www.CollegeForAllTexans.com.

EARLY ADMISSION PROGRAM

Students may enroll in Tyler Junior College provided the following conditions are met:

- Obtain written approval of both your counselor and parent or guardian;
- Meet enrollment requirements at Tyler Junior College;
- Give written permission to Tyler Junior College to release attendance and grade reports to Tyler ISD.

NCAA COLLEGE – BOUND STUDENT ATHLETES

If you are planning to enroll in college and participate in Division I or Division II athletics, you must be certified by the NCAA Initial-Eligibility Clearinghouse. Visit www.eligibilitycenter.org. Important changes are posted annually.

COLLEGE INFORMATION WEBSITES

Students should be aware that websites may sell personal data

TISD website - - www.tylerisd.org

TJC website - - www.tjc.edu

UT Tyler website- - www.uttyler.edu

Texas College website - - www.texascollege.edu

Free Application for Federal Student Aid - - www.fafsa.ed.gov

Get your FSA ID# (Both you and your parents need one) - - www.pin.ed.gov

Generation Texas (inspiration and information on going to college) - - www.gentx.org

Information about colleges and universities in Texas - - www.everychanceeverytexan.org

Comprehensive website - - www.collegeforalltexas.com

User friendly career/college search website - - nces.ed.gov/collegenavigator

Online application for state colleges and universities in Texas - - www.applytexas.org

Online application for selective colleges and universities - - www.commonapp.org

Register for SAT/send scores to colleges - - www.collegeboard.org

Register for ACT/send scores to colleges - - www.act.org

NCAA Clearinghouse (Intercollegiate Athletic Eligibility) - - www.eligibilitycenter.org

AP/College Board Information - - <https://apstudent.collegeboard.org/home>

Texas Higher Education Coordinating Board - - www.thecb.state.tx.us

STUDENT TIMELINE FOR COLLEGE ADMISSION

FRESHMAN YEAR

- Get to know your high school counselor
- Participate in school activities and organizations
- Look for opportunities for leadership and community service
- Attend local college fairs
- Start a student profile of activities and honors. Save it and update it annually.
- Take challenging courses (Pre-AP) for college preparation
- Study hard and keep grades high to earn the best possible class rank

SOPHOMORE YEAR

- Explore college choices on the internet and visit campuses
- Become familiar with the materials and additional assistance available in the guidance office
- Prepare for SAT/ACT and college by taking the most rigorous courses you can handle
- Attend College Night at TJC in November
- Continue school activity involvement and volunteer work
- Update student profile

JUNIOR YEAR (Fall)

- Take PSAT-NMSQT in October
- Attend College Night at TJC in November
- Visit with College Admission Representatives
- Challenge yourself with rigorous courses

JUNIOR YEAR (Spring)

- Take SAT or ACT in spring semester (fee waivers are available for students with financial need)
- Take SAT Subject Tests in late spring or June if you are considering a school that requires them (Rice, UT, SMU and other out of state schools – be sure to contact your college for requirements)
- Narrow college choices to a short list
- Visit websites for admission information and deadlines
- Continue to challenge yourself with Pre-AP and AP courses
- Continue school activity involvement. Update student profile
- Visit college campuses – take a tour
- If planning to play college athletics, register with the NCAA Clearing House at the end of your junior year
- Take AP examinations for courses taken

SENIOR YEAR (Fall)

- Check admissions, housing and scholarship deadlines for schools still on your list (Many are as early as November)
- Get organized. Mark your calendar with deadline alerts. Make files for each school and scholarship
- Attend College Night at TJC in November
- Take SAT or ACT again if necessary (to try for higher score) and SAT Subject Tests if needed
- Make sure SAT/ACT/AP scores and transcripts have been forwarded to colleges in which you have interest
- Use the internet for scholarship search, plus college websites for campus scholarships
- Prepare to do taxes early (FAFSA, the financial aid form, requires figures from completed tax return)
- Update and fine-tune your student profile. Do not forget to include community service, volunteering, summer enrichment study/travel, and part-time work

SENIOR YEAR (Spring)

- File FAFSA (Free Application for Federal Student Aid) (Federal Financial Aid Form) as early as possible in February
- Attend Financial Aid Nights at area colleges or your high school
- Take TSI if you are attending a Texas public college or university (if not EOC, ACT or SAT exempt)
- Wait for decisions from institutions. Make final decision and notify college of your choice
- Take AP Exams for courses taken through your high school years

College Admission Exams (ACT & SAT)

All students should take the SAT and/or the ACT in the spring of their junior year or as early as possible in the senior year. For more information please visit their associated websites: ACT (www.act.org) & SAT (www.collegeboard.org). SAT Reasoning Test and SAT Subject Tests cannot be taken on the same date.

Apply Texas

The “Apply Texas” Application for state colleges and universities is available online at www.applytexas.org. This is the common application used by all state colleges and universities.

Transcripts

Each student will receive one official high school transcript (free of charge) upon graduation from high school. Students can order additional transcripts from the Registrar’s office for \$2.00 each. Please allow 48 hours for processing.

College Scholarships

The best sources of scholarship information are periodic campus correspondence, campus websites, college websites, and college recommended internet search engines. Check with each college to which you are applying to make sure you receive their scholarship forms and meet their scholarship criteria and deadlines.

College admission and scholarship applications will have strict deadlines that must be observed. Students needing information or recommendations from counselors, teachers, or other school personnel must complete a student information sheet and present it to the recommender at least three weeks prior to the due date of any recommendation. Shorter notices do not allow enough time to prepare the best recommendation.

Dual Credit

- **May high school students receive college credit?** Yes. Under Texas law, qualified high school students may receive college credit, thereby reducing the time and attendance expense for their college education. The one way is through dual enrollment, and another is advanced placement.
- **What is the difference between the two?**
 - **“Dual Credit” or “Concurrent”** means that a high school student enrolls for a course, which is taught on the ECHS, JT, or REL campus or on a college campus, and may receive both high school and college credit for that one course. Tuition and fees charged by the college are paid by the high school student. Classes are taught by college faculty or approved high school faculty.
 - **“Advanced placement/college credit”** means that a student enrolls in an AP in high school by a properly certified high school teacher, completes the course, and receives college credit only upon

both satisfactory completion and acceptable scoring of an advanced placement examination from the College Board AND posting to an official transcript by an accredited college.

- **Which students are “qualified” for dual credit for next year?** High school students wishing to take a dual credit course must meet admission requirements for a public two-year college, with the exception of high school graduation. Students who will be seniors in high school must be TSI-exempt or must take and meet college standard on the TSI in the subject area for the course in which they plan to enroll. Students must successfully complete their dual credit courses with a grade of “C” or better to be eligible to enroll in subsequent dual credit courses.
- **Who Benefits?** Dual credit is a win/win situation for both the student and the State. The student is saved the expense of repeating courses in college which may be similar to those taken in high school. The State benefits by saving operating expenses for students attending college and taking courses similar to high school courses.
- Please be aware that some Dual Credit classes may be delivered in an online format. Check with the high school instructor or counselor and ask any questions you might have before you register and pay your fees.
- Before enrolling in an AP or Dual Credit course please be aware that public and private colleges and universities have policies and procedures in place to determine how they award credit for college courses taken while still in high school. It is the responsibility of the student and his/her parent/guardian to contact the post-secondary institutions directly as to determine their policy for awarding credit.

Profile of a successful Pre-AP/AP/Dual Credit Student:

- Has scored the advanced academic level on the required EOC tests
- Highly motivated and professes an interest in the subject selected
- Develops and maintains excellent study skills and habits
- Carefully considers time commitments and balances academic load with family life and outside activities
- Asks questions and participates in class
- Perseveres when faced with challenging material
- Asks for assistance when needed
- Plans and works ahead on long term projects

Career & Technology Education

Students are encouraged to take a Principles of Career & Technology Education (CTE) course during their 9th or 10th grade year in order to be prepared to take advanced CTE courses at the TISD Career & Technology Center during their 11th and/or 12th grade years. Some CTE Pathways require students to take CTE courses all four years to reach the highest level of the program and earn advanced certifications.

Foundation With Endorsement Graduation Program

Foundation Program - Basic course credits that all students must complete

Endorsement - Additional credits required to pursue college and career goals and/ or personal academic interests

FOUNDATION CREDITS (22)

English	4
Math (including Algebra II)	3
Science	3
Social Studies	3
Foreign Language	2
Fine Arts	1
Physical Education	1
Electives (Includes Speech & Health)	5
FOUNDATION TOTAL	22 Credits

ENDORSEMENT CREDITS (4)

4th Math	1
4th Science	1
Endorsement Electives	2 (Advanced CTE)
ENDORSEMENT TOTAL	4 Credits

FOUNDATION WITH ENDORSEMENT TOTAL 26 Credits

ENDORSEMENT OPTIONS

- **STEM**
- **Business & Industry**
- **Public Service**
- **Arts & Humanities**
- **Multi-Disciplinary Studies**

Additional endorsements may be earned by completing the Endorsement Credits or special requirements.

Endorsement electives may serve as Foundation electives as well.

COURSE SELECTION PROCESS

Students are encouraged to carefully study the graduation plan of their choice and to take courses that will meet the requirements of their graduation plan. Classes with fewer than fifteen (15) students may not be offered. Students should always select alternate choices. The District will make every effort to meet all course requests within the context of scheduling and teacher availability.

High school level courses are designed for students who are working at grade level. These courses are offered to meet the needs of students who plan to attend a university, college, community college, or technical school. In addition, the District offers specialized classes for English Language Learners, Advanced Studies, Career and Technical Education and Special Education.

Career Preparation

Choose courses that interest and challenge you as well as prepare you for the future. Match your interest and academic abilities to enable you to develop a career pathway for the future. Choices you make during high school years will determine the choices available to you later in life. High School provides you opportunities to identify and explore your interests and abilities. The process is not an easy one, but that discovery can allow you to begin to develop your plans for college and a career before many of your peers.

SCHEDULE CHANGES

Fall schedule changes are only allowed for errors and prerequisite requirements. Elective choices made in the spring are final. To solve schedule conflicts, counselors may substitute an alternate choice for an elective. Because of the potential effect on class size, counselors cannot accommodate teacher change requests, "change of mind" requests, or lunch preferences. Necessary schedule changes (listed below) will be made ONLY during the first 2 weeks of school.

Valid reasons for a schedule change:

- Student has already earned credit for the class in which he/she is enrolled
- The student has not met a prerequisite for the course
- ARD committee decision
- Work-based learning program students who do not have a job by the deadline
- Student has failed the course under the same teacher, another teacher is available, and there is no negative impact on class size

Course requests for the 2019-2020 school year may be changed through Thursday, April 18, 2019 of the 2018-2019 school year.

GUIDELINES FOR DROPPING PRE-AP, AP, and DUAL CREDIT CLASSES

Dropping from Pre-AP, AP, or Dual Credit classes to on-level classes will not be considered until the end of the first six weeks grading period. A student wishing to drop to an on-level class at this time must submit the appropriate form to his/her assigned counselor within five school days of receiving the 1st six weeks report card. Dropping from a semester long Pre-AP, AP or Dual credit class offered in the spring will not be considered until the end of the 4th six week grading period. Required documentation for requesting a level change includes the following:

- Schedule Change Form
- Parent/teacher/student conference held
- Minimum of three (3) tutorials attended
- Principal approval
- All required signatures, including principal approval, must be on the form before presenting it to the counselor for the schedule change.
- Change request forms can be obtained in the counseling office.

AP (Advanced Placement) EXAMS

Students enrolled in AP classes are expected to prepare for and take the corresponding AP examination. The College Board AP Exams are given each year during the first two weeks of May and are administered during the school day. Each exam is approximately three hours and covers college-level content in a specific course. Individual tests may vary in format, but generally consist of both timed multiple choice and essay questions. Foreign Language exams include a speaking and listening section. Scores range from 1-5, with most colleges awarding credit for scores of 3 or higher. For more information, visit the AP website at: <https://apstudent.collegeboard.org/home>

- A \$15 test deposit is required by the end of January for each AP test a student intends to take in May.
- Partial fee waivers are available for students who qualify. See your counselor for more information.

TSI (Texas State Initiative) ASSESSMENT

Requirements

Texas law requires a TSI Assessment for all non-exempt under graduate students entering a Texas public institution of higher learning for the purpose of placement. Students must take the TSI Assessment or an approved alternative test prior to enrolling in any college-level course work. The TSI Test is a computer-adaptive test measuring skills in Reading, Sentence Skills, Essay writing, and Mathematics. Any student who is attempting to enroll in college-level coursework and who is not exempt from the testing requirements must take the TSI Assessment. Check with your counselors regarding exemption requirements.

Registration

Early College High School students must take the TSI Assessment before the spring semester of their 9th grade year. ECHS students will be registered by their counselor. Students attending John Tyler HS or Robert E. Lee HS must either take and pass the TSI or earn an exemption prior to beginning a dual credit class.

ADVANCED ACADEMICS PROGRAM

Pre-AP Program
Advanced Track
Grades 9-12

Advanced Placement Program
Grades 9-12

TISD/TJC Dual Credit Program
Grades 10-12

Information And Guidelines

Pre-AP Program (Pre-AP): Pre-AP courses are developed locally. It is neither a prescribed set of courses nor a prescribed curriculum. It is a group of locally developed methods (skills and concepts taught) to determine student progress towards Advanced Placement standards. It is not a requirement for students to have been identified for the TISD gifted/talented program in order to take Pre-AP or AP courses. Students should, however, have passed EOC or STAAR on the first test administration, be a strong B or C average student, be well disciplined in class, and be motivated toward their own academic success.

College Board Advanced Placement (AP) Courses: The Advanced Placement (AP) Program is a collaborative effort between secondary schools, colleges, and universities. Advanced Placement courses must be authorized by a College Board audit in order for students to earn AP credit for AP courses. The AP Program offers students college-level material with rigor and challenge. Students have an opportunity to show mastery of the material by taking an AP exam in the spring. Students are charged a fee for each AP exam they take. Reduced fees are available for students on free and reduced lunch. Colleges and universities may grant credit, provide placement, or both based on varied levels of student performance on an AP exam.

Dual Credit (Tyler ISD/Tyler JC) Courses:

Summer Assignments for Pre-AP/AP Courses: Some Pre-AP and AP classes may require summer reading or summer assignments. Students must complete the summer assignments prior to the first day of classes and be prepared for immediate assessments, discussions, journals, blogs, and/or compositions during the first week of school. Failure to complete summer assignments is not a justification for dropping a course.

Courses listed in **italics** will count toward class rank for students entering High School beginning with the 2013-2014 school year per policy EIC (LOCAL)

PRE-AP/AP/DUAL CREDIT COURSE LISTING

ENGLISH

- Advanced Academics -

ENGLISH 1 PAP

Grade: 9 **Credit:** 1 **Prerequisite:** None **Test Fee:** No

- preparation to enter the 11th, 12th grade AP or Concurrent English Program (college level courses)
- oral discussion skills, critical thinking skills
- analytic skills-interpreting a variety of world literature (fiction/non-fiction for literary devices, rhetorical purpose and genre characteristics)
- composition skills-documented essays using primary and secondary sources, complex sentence structure, mechanics, vocabulary
- summer reading required

ENGLISH 2 PAP

Grade: 10 **Credit:** 1 **Prerequisite:** English 1 (PAP preferred) **Test Fee:** No

- a higher level of complexity from English 1 Pre-AP in preparation for the 11th, 12th grade AP and Concurrent Program (college level courses), oral discussion skills, critical thinking skills
- analytic skills – interpreting a variety of world literature (fiction/non-fiction) for literary devices, rhetorical purpose, and genre characteristics
- composition skills – documented essays using primary and secondary sources, complex sentence structure, mechanics, vocabulary
- summer reading required

ENGLISH LANGUAGE AND COMPOSITION 3 AP

Grade: 11 **Credit:** 1 **Prerequisite:** English 1 & 2 (PAP preferred) **Test Fee:** Yes

The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidenced-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods.

ENGLISH 3 (2 semesters) & TJC ENGLISH 1301 (3 hours)/TJC ENGLISH 1302 (3 hours) - -DUAL CREDIT

Grade: 11 **Credit:** 1 **Prerequisite:** TSI exempt or passed TSI Reading & Writing **Tuition & Book:** Yes

- a high level of complexity in critical thinking
- a high level of complexity in analytic skills – interpreting a variety of American literature (fiction/non-fiction) for literary devices, rhetorical purpose, and genre characteristics
- oral discussion skills, stylistic maturity in composition skills – documented essays using primary and secondary sources, complex sentence structure, mechanics, vocabulary
- individual/small group independent study, reading & projects
- students receive credit for English 1301 and 1302
- summer reading may be required

ENGLISH LANGUAGE AND LITERATURE 4 AP**Grade:** 12 **Credit:** 1 **Prerequisite:** English 1, 2 & 3 (PAP/AP preferred) **Test Fee:** Yes

The AP Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

ENGLISH 4 (2 semesters) & TJC ENGLISH 2332 (3 hours)/TJC ENGLISH 2333 (3 hours) - - DUAL CREDIT**Grade:** 12 **Credit:** 1 **Prerequisite:** TSI exempt or passed TSI Reading & Writing **Tuition & Book:** Yes

- a high level of complexity in critical thinking
- a high level of complexity in analytic skills – interpreting a variety of British/World literature (fiction/non-fiction)
- oral discussion skills
- literary devices, rhetorical purpose, genre characteristics, oral discussion skills
- stylistic maturity in composition skills – documented essays using primary and secondary sources, complex sentence structure, mechanics, vocabulary
- individual/small group independent study, reading, and writing
- students receive credit for English 2332 and 2333
- summer reading may be required

COMMUNICATION APPLICATIONS– TJC SPCH 1315 Public Speaking (3 Hours) - DUAL CREDIT**Grade:** 11-12 **Credit:** 0.5 **Prerequisite:** TSI Exempt

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations.

MATHEMATICS & COMPUTER SCIENCE**- Advanced Academics -****ALGEBRA 1 PAP****Grade:** 9 **Credit:** 1 **Prerequisite:** 8th Grade Math (or equivalent) **Test Fee:** No

- an in-depth study of the regular Algebra 1 topics
- a focus on concept analysis, problem solving, and practical applications

GEOMETRY PAP**Grade:** 9-10 **Credit:** 1 **Prerequisite:** Algebra 1 (PAP preferred) **Test Fee:** No

- an in-depth study of the regular geometry topics
- additional topics include coordinate proofs, transportation, and principles of logic
- requires time outside of the class for additional assignments

ALGEBRA 2 PAP

Grade: 9-11 **Credit:** 1 **Prerequisite:** Geometry (PAP preferred) **Test Fee:** No

- an in-depth study of regular Algebra 2 topics
- additional topics beneficial to college-bound students
- requires time outside of class for additional assignments

PRE-CALCULUS PAP

Grade: 10-12 **Credit:** 1 **Prerequisite:** Algebra 2 (PAP preferred) **Test Fee:** No

- an in-depth study of regular pre-calculus topics
- preparation for calculus

PRE-CALCULUS A (1 semester) = TJC COLLEGE ALGEBRA 1314 (3 hours) - - DUAL CREDIT

Grade: 11-12 **Credit:** 0.5 **Prerequisite:** Algebra 2 & TSI exempt or TSI Math score of 350 **Tuition & Book:** Yes

This college level course is an in-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

INDEPENDENT STUDY MATH A (1 semester) = TJC COLLEGE STATISTICS 1342 (3 hours) - - DUAL CREDIT

Grade: 11-12 **Credit:** 0.5 **Prerequisite:** Algebra 2 & TSI exempt or TSI Math score of 350 **Tuition & Book:** Yes

This college level course focuses on the collection, analysis, presentation and interpretation of data and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.

PRE-CALCULUS B (1 semester) = TJC COLLEGE PRE-CALCULUS 2412 (4 hours) - - DUAL CREDIT

Grade: 11-12 **Credit:** 0.5 **Prerequisite:** TJC College Algebra 1314 **Tuition & Book:** Yes

This college level course is an in-depth study of algebra, trigonometry, and other topics for calculus readiness.

STATISTICS AP

Grade: 11-12 **Credit:** 1 **Prerequisite:** Pre-Calculus (PAP preferred) **Test Fee:** Yes

The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

CALCULUS AB AP

Grade: 11-12 **Credit:** 1 **Prerequisite:** Pre-Calculus (PAP preferred) **Test Fee:** Yes

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

CALCULUS BC AP

Grade: 11-12 **Credit:** 1 **Prerequisite:** Calculus AB AP **Test Fee:** Yes

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in Calculus AB to different types of equations and introduces the topic of sequences and series. The course

covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representatives. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

AP COMPUTER SCIENCE A

Grade: 11-12 **Credit:** 1 **Prerequisite:** Algebra 2 (PAP preferred) **Test Fee:** Yes

AP Computer Science A is equivalent to a first semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities.

SCIENCE

- Advanced Academics -

BIOLOGY PAP

Grade: 9 **Credit:** 1 **Prerequisite:** None **Test Fee:** No

- independent research on current biological topics
- biology topics including:
 - cellular processes
 - kingdoms of life and ecology
 - anatomy and physiology of living things
 - graphing, thinking and writing skills
 - experimental design
- prepare for entrance into Biology 2 AP

CHEMISTRY PAP

Grade: 10-12 **Credit:** 1 **Prerequisite:** None (Biology PAP preferred) **Test Fee:** No

- advanced problem solving skills, and laboratory experiences
- study of composition and changes of matter
- college level preparatory skills

PHYSICS PAP

Grade: 11-12 **Credit:** 1 **Prerequisite:** Algebra 2 (may be taken concurrently)

Physics PAP is a math-intensive science course. It is meant to accelerate the student's algebra and critical thinking abilities to the college level

PHYSICS 1 AP

Grade: 11-12 **Credit:** 1 **Prerequisite:** Algebra 2 & Chemistry (PAP preferred) **Test Fee:** Yes

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

PHYSICS 2 AP**Grade:** 11-12 **Credit:** 1 **Prerequisite:** Physics 1 AP **Test Fee:** Yes

AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.

BIOLOGY AP**Grade:** 11-12 **Credit:** 1 **Prerequisite:** Biology (PAP preferred) **Test Fee:** Yes

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

CHEMISTRY AP**Grade:** 11-12 **Credit:** 1 **Prerequisite:** Chemistry (PAP preferred) **Test Fee:** Yes

AP Chemistry provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

ENVIRONMENTAL SCIENCE AP**Grade:** 11-12 **Credit:** 1 **Prerequisite:** PAP Math & Science preferred **Test Fee:** Yes

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

SCIENTIFIC RESEARCH AND DESIGN A DUAL CREDIT – TJC BIOL 1408 Biology for Non-Science Majors I (4 Hours)**Grade:** 11-12 **Credit:** 0.5 **Prerequisite:** TSI Exempt

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

SCIENTIFIC RESEARCH AND DESIGN B DUAL CREDIT – TJC BIOL 1409 Biology for Non-Science Majors II (4 Hours)**Grade:** 11-12 **Credit:** 0.5 **Prerequisite:** TSI Exempt and BIOL 1408

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

SCIENTIFIC RESEARCH AND DESIGN III DUAL CREDIT – TJC BIOL 2404 Anatomy & Physiology (4 Hours)**Grade:** 11-12 **Credit:** 1.0 **Prerequisite:** TSI Exempt

Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized.

SOCIAL STUDIES

- Advanced Academics -

WORLD GEOGRAPHY PAP

Grade: 9 **Credit:** 1 **Prerequisite:** None **Test Fee:** No

- creativity and higher level thinking skills, current events, local history, and state history
- the nature of physical and cultural geography
- the human interaction to their physical environments in major regions and settings
- introduction of skills required for AP social studies courses

HUMAN GEOGRAPHY AP (World Geography credit)

Grade: 9-12 **Credit:** 1 **Prerequisite:** None **Test Fee:** Yes

AP Human Geography is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alterations of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.

WORLD HISTORY AP

Grade: 10 **Credit:** 1 **Prerequisite:** World Geography or AP Human Geography **Test Fee:** Yes

The AP World History course focuses on developing students' understanding of the world history from approximately 8000 BCE to the present. This college-level course has students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides five themes (interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; development and transformation of social structures) that students explore throughout the course in order to make connections among historical developments in different times and places encompassing the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania.

UNITED STATES HISTORY AP

Grade: 11-12 **Credit:** 1 **Prerequisite:** World or Human Geography and World History **Test Fee:** Yes

AP United States History focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students' abilities to think conceptually about United States history from approximately 1491 to the present. Seven themes of equal importance - American and National Identity; Migration and Settlement; Politics and Power; Work, Exchange, and Technology; America in the World; Geography and the Environment; and Culture and Society - provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. The course also allows teachers flexibility across nine different periods of United States history to teach topics of their choice in depth.

US HISTORY (2 semesters) & TJC US HISTORY 1301 (3 hours)/TJC US HISTORY 1302 (3 hours) - - DUAL CREDIT

Grade: 11 **Credit:** 1 **Prerequisite:** TSI exempt or passed TSI Reading & Writing **Tuition & Book:** Yes

- this course emphasizes a high level of complexity in critical thinking. The focus will be on pre-1865 history with a review of US History since 1865. In order to develop students' research and analytical and writing skills, an in-depth study of documents and other relevant texts will be completed.
- students receive TJC credit for US History

UNITED STATES GOVERNMENT AND POLITICS AP

Grade: 12 **Credit:** ½ **Prerequisite:** None **Test Fee:** Yes

AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments.

GOVERNMENT (1 semester) & TJC GOVERNMENT 2305 (3 hours) - - DUAL CREDIT

Grade: 12 **Credit:** ½ **Prerequisite:** TSI exempt or passed TSI Reading **Tuition & Book:** Yes

This college-level course is a study of the political and governing processes, elements of political theories, and governmental structures, powers, and functions at the national, state and local levels. Significant focus of the course is on the US Constitution and Amendments. This course moves at a fast pace and uses college-level textbooks and resources. Students will be expected to demonstrate advanced skills in reading, writing, analysis, research, and independent study. Successful completion of this course will provide credit for the high school US Government requirement as well as dual credit through TJC. Students must meet the dual credit enrollment criteria.

MACROECONOMICS AP

Grade: 12 **Credit:** ½ **Prerequisite:** None **Test Fee:** Yes

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

ECONOMICS (1 semester) & TJC ECONOMICS 2301 (3 hours) - - DUAL CREDIT

Grade: 12 **Credit:** ½ **Prerequisite:** TSI exempt or passed TSI Reading **Tuition & Book:** Yes

This college-level course covers the following key concepts: scarcity, opportunity cost production possibilities curve, factors of production and incomes, circular flow model, and supply and demand

EUROPEAN HISTORY AP

Grade: 10-12 **Credit:** 1 **Prerequisite:** AP Human Geography **Test Fee:** Yes

AP European History focuses on developing students' understanding of European history from approximately 1450 to the present. The course has students investigate the content of European history for significant events, individuals, developments, and processes in four historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides five themes (interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; and individual and society) that students explore throughout the course in order to make connections among historical developments in different times and places.

PSYCHOLOGY AP (paired with Advanced Health)**Grade:** 11-12 **Credit:** ½ **Prerequisite:** None **Test Fee:** Yes

AP Psychology introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas.

PSYCHOLOGY DUAL CREDIT = TJC 2301 General Psychology (3 Hours)**Grade:** 11-12 **Credit:** 0.5 **Prerequisite:** TSI Exempt

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

LANGUAGES OTHER THAN ENGLISH**- Advanced Academics -****AP COMPUTER SCIENCE A****Grade:** 11-12 **Credit:** 1 **Prerequisite:** Algebra 2 (PAP preferred) **Test Fee:** Yes

AP Computer Science A is equivalent to a first semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities.

AP COMPUTER SCIENCE PRINCIPLES**Grade:** 10-12 **Credit:** 1 **Prerequisite:** Algebra 1 (PAP preferred) **Test Fee:** Yes

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts.

AMERICAN SIGN LANGUAGE 1 PAP**Grade:** 9-12 **Credit:** 1 **Prerequisite:** None **Test Fee:** No
(course overview)**AMERICAN SIGN LANGUAGE 2 PAP****Grade:** 9-12 **Credit:** 1 **Prerequisite:** ASL 1 **Test Fee:** No
(course overview)**AMERICAN SIGN LANGUAGE 3 PAP****Grade:** 10-12 **Credit:** 1 **Prerequisite:** ASL 1 and 2 (or equivalent) **Test Fee:** No
(course overview)

CHINESE 1 PAP**Grade:** 9-11 **Credit:** 1 **Prerequisite:** None **Test Fee:** No

Pre-AP Chinese is designed to prepare students for Chinese II Pre-AP with the ultimate goal being take the AP Chinese Language and Culture test.

CHINESE 2 PAP**Grade:** 9-12 **Credit:** 1 **Prerequisite:** Chinese I

Pre-AP Chinese is designed to prepare students for a Chinese III Pre-AP Chinese Language and Culture course. This course emphasizes students, listening, speaking, reading and writing skills and Chinese cultural studies are also included in the curriculum so that students' multicultural awareness is strengthened in the teaching and learning process.

CHINESE 3 PAP**Grade:** 9-12 **Credit:** 1 **Prerequisite:** Chinese 2

This course emphasizes students, listening, speaking, reading and writing skills and Chinese cultural studies are also included in the curriculum so that students' multicultural awareness is strengthened in the teaching and learning process.

FRENCH 1 PAP**Grade:** 9-11 **Credit:** 1 **Prerequisite:** None **Test Fee:** No

- an expansion of the on-level language class designed to provide opportunities for talented language students beyond those available in the regular language classes
- stresses the development of low/intermediate proficiency in oral skills, accurate comprehension of contemporary and cultural reading passages
- expands the use of grammatical constructions and vocabulary and begins the development of expository composition
- culturally related activities and regions are explored
- preparation to enter the AP program

FRENCH 2 PAP**Grade:** 9-12 **Credit:** 1 **Prerequisite:** French 1 (or equivalent) **Test Fee:** No

- an expansion of the on-level language class designed to provide opportunities for talented language students beyond those available in the regular language classes
- stresses the development of low/intermediate proficiency in oral skills, accurate comprehension of contemporary and cultural reading passages
- expands the use of grammatical constructions and vocabulary and begins the development of expository composition
- culturally related activities and regions are explored
- preparation to enter the AP program

FRENCH 3 PAP**Grade:** 10-12 **Credit:** 1 **Prerequisite:** French 1 and 2 (or equivalents) **Test Fee:** No

- grammar and vocabulary skills to develop speaking and writing proficiency
- listening, reading, speaking skills to develop speaking and reading proficiency
- writing/organizational skills to develop competency in composition development
- preparation to enter the AP program

FRENCH LANGUAGE AND CULTURE 4 AP**Grade:** 11-12 **Credit:** 1 **Prerequisite:** French 1, 2 and 3 (or equivalents) **Test Fee:** Yes

AP French Language and Culture emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in French. The course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

SPANISH 1 PAP**Grade:** 9-11 **Credit:** 1 **Prerequisite:** None **Test Fee:** No

- an expansion of the on-level language class, designed to provide opportunities for talented language students beyond those available in the regular language classes
- stresses the development of low/intermediate proficiency in oral skills, accurate comprehension of contemporary and cultural reading passages
- expands the use of grammatical constructions and vocabulary and begins the development of expository composition
- culturally related activities and regions are explored
- preparation to enter the AP program

SPANISH 2 PAP**Grade:** 9-12 **Credit:** 1 **Prerequisite:** Spanish 1 (or equivalent) **Test Fee:** No

- an expansion of the on-level language class, designed to provide opportunities for talented language students beyond those available in the regular language classes
- stresses the development of low/intermediate proficiency in oral skills, accurate comprehension of contemporary and cultural reading passages
- expands the use of grammatical constructions and vocabulary and begins the development of expository composition
- culturally related activities and regions are explored
- preparation to enter the AP program

SPANISH 3 PAP**Grade:** 9-12 **Credit:** 1 **Prerequisite:** Spanish 1 and 2 (or equivalents) **Test Fee:** No

- grammar and vocabulary skills to develop speaking and writing proficiency
- listening, reading, speaking skills to develop speaking and reading proficiency
- writing/organizational skills to develop competency in composition development
- preparation to enter the AP program

SPANISH LANGUAGE AND CULTURE 4 AP**Grade:** 10-12 **Credit:** 1 **Prerequisite:** Spanish 1, 2, and 3 (or equivalents) **Test Fee:** Yes

AP Spanish Language and Culture emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products

(e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

SPANISH LITERATURE AND CULTURE 5 AP

Grade: 11-12 **Credit:** 1 **Prerequisite:** Spanish 1, 2, 3 and 4 (or equivalents) **Test Fee:** Yes

AP Spanish Literature and Culture uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spanish, Latin American, and United States Hispanic literature. Students develop proficiencies across the full range of communication modes (interpersonal, presentational, and interpretive), thereby honing their critical reading and analytical writing skills. Literature is examined within the context of its time and place, as students reflect on the many voices and cultures present in the required readings. The course also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g., art, film, articles, literary criticism).

ELECTIVES

- Advanced Academics -

AP SEMINAR

Grade: 10-12 **Credit:** 1 **Prerequisite:** None

AP 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 research based 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.

ARTS & MUSIC

- Advanced Academics -

ART 1 PAP

Grade: 9-12 **Credit:** 1 **Prerequisite:** None (middle school art preferred) **Test Fee:** No

Course is designed for the advanced, dedicated artist with a focus on drawing, painting, and other 2-D media and geared towards students who have taken Art 1 and Art 2 in middle school. The majority of the students will take Pre-AP 2 the following year and AP studio portfolio junior or senior year. The class is rigorous and focused, but the students develop their skills at a deeper level and are surrounded by students with similar motivation

ART 2 PAP

Grade: 10-12 **Credit:** 1 **Prerequisite:** PAP Art 1 **Test Fee:** No

Pre-AP Studio Art 2 is designed for students who are seriously interested in the practical experience of art and is geared towards students interested in pursuing an AP portfolio in their junior or senior year. Work is directed towards the AP Portfolio, and the goal of this class is to prepare students for the AP Studio art program, which enables highly motivated students to do college-level work in studio art while still in high school. Pre-AP work does involve more time and commitment than non-PAP art courses and therefore is intended for students seriously committed to studying art. Students make slide portfolios for final grade.

STUDIO ART: 2-D DESIGN AP

Grade: 11-12 **Credit:** 1 **Prerequisite:** Art 1 and any Art 2 class **Test Fee:** Yes

Required: Submission of AP portfolio

AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. Students submit portfolios for evaluation at the end of the school year. The portfolios are created to correspond to the most common college foundation courses. AP Studio Art students create a portfolio of work to demonstrate the artistic skills and ideas they have developed, refined, and applied over the course of the year to produce visual compositions.

STUDIO ART: DRAWING AP

Grade: 11-12 **Credit:** 1 **Prerequisite:** Art 1 and any Art 2 class **Test Fee:** Yes

Required: Submission of AP portfolio

AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. Students submit portfolios for evaluation at the end of the school year. The portfolios are created to correspond to the most common college foundation courses. AP Studio Art students create a portfolio of work to demonstrate the artistic skills and ideas they have developed, refined, and applied over the course of the year to produce visual compositions.

ART HISTORY AP

Grade: 10-12 **Credit:** 1 **Prerequisite:** None **Test Fee:** Yes

AP Art History is equivalent to a two-semester introductory college course that explores the nature of art, art making, and responses to art. By investigating specific course content of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the course fosters in-depth, holistic understanding of the history of art from a global perspective. Students become active participants in the global art world, engaging with its forms and content. They experience, research, discuss, read, and write about art, artists, art making, responses to, and interpretations of art.

MUSIC THEORY AP

Grade: 11-12 **Credit:** 1 **Prerequisite:** None **Test Fee:** Yes

AP Music Theory corresponds to one or two semesters of a typical introductory college music theory course that covers topics such as musicianship, theory, musical material, and procedures. Musicianship skills, including dictation and other listening skills, sight singing, and harmony, are considered an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard or presented in a score. Development of aural skills is a primary objective. Performance is also part of the curriculum through the practice of short singing. Students understand basic concepts and terminology by listening to and performing a wide variety of music. Notational skills, speed, and fluency with basic materials are also emphasized.

FOUNDATION CURRICULUM

Components

Based on assessment data, students may be placed in an Academic support class to ensure they pass required state assessments for graduation.

Courses listed in **italics** will count toward class rank for students entering High School beginning with the 2013-2014 school year per policy EIC (LOCAL)

ENGLISH AS A SECOND LANGUAGE (ESL)

All students who register in this school district will complete a home language survey. If this survey indicates that a language other than English is spoken in the home or is spoken by the student most of the time, the student must be referred to the campus Lead ESL Teacher for evaluation. Tests will be administered to assess the student's English language proficiency. Tyler ISD uses the SOL terminology to distinguish between courses that target specific levels of English language proficiency. Students who are found to be English language learners (ELL) and were born outside of the United States may enroll in Speakers of other Languages (SOL) classes. SOL classes are based on a carefully sequenced second language program which addresses beginning to advanced skill levels of listening, speaking, reading, and writing. Sheltered content area classes integrate language acquisition and specific content subject matter. The use of Sheltered Instruction (SI) strategies provides the opportunity for second language learners to become proficient in English and to apply these competencies within a wide range of social and academic contexts. The Language Proficiency Assessment Committee (LPAC) determines the appropriate schedule placements for students identified as English Language Learners (ELLs).

ENGLISH 1 SOL

Grade: 9 **Credit:** 1 **Prerequisite:** LPAC Placement

- the same components and TEKS as English 1
- may be used to fulfill English 1 graduation requirements for students of limited English proficiency as recommended by LPAC

ENGLISH 2 SOL

Grade: 10 **Credit:** 1 **Prerequisite:** LPAC Placement

- the same components and TEKS as English 2
- may be used to fulfill English 2 graduation requirements for students of limited English proficiency as recommended by LPAC

READING 1 SOL/SIBI/SI

Grade: 9-12 **Credit:** 1 **Prerequisite:** LPAC Placement

- reading skills for development and refinement
- extensive vocabulary development and word recognition utilizing listening, reading, writing and speaking practices
- reading comprehension in narrative and expository text
- reading fluency

READING 2 SOL/SI

Grade: 9-12 **Credit:** 1 **Prerequisite:** LPAC Placement

- reading skills for development and refinement
- extensive vocabulary development and word recognition utilizing listening, reading, writing and speaking practices
- reading comprehension in narrative and expository text
- reading fluency

READING 2 SI

Grade: 9-12 **Credit:** 1 **Prerequisite:** LPAC Placement (counselor approval required)

- reading skills for development and refinement
- extensive vocabulary development and word recognition utilizing listening, reading, writing and speaking practices
- reading comprehension in narrative and expository text
- reading fluency

PRACTICAL WRITING SKILLS

Grade: 9-12 **Credit:** 1 **Prerequisite:** LPAC Placement

- academic support for advanced students of limited English proficiency as recommended by LPAC
- writing for a variety of audiences and purposes
- conventions and mechanics of written English to communicate clearly
- application of rules of usage and grammar
- recursive writing processes for self-initiated and assigned writing
- serves as support course for students taking English 1, English 2, English 3, and English 4

CREATIVE WRITING

Grade: 9-12 **Credit:** 1

Prerequisite: LPAC Placement

- academic support for advanced students of limited English proficiency as recommended by LPAC
- demonstrating skills in various forms of writing, such as fiction, short stories, poetry, and drama
- effectively applying conventions of usage and mechanics of written English
- understanding the recursive nature of the writing process
- developing peer and self-assessments for effective writing
- analyzing and discussing published and unpublished pieces of writing
- setting personal goals as writers
- serves as support course for students taking English 1, English 2, English 3, and English 4

ENGLISH LANGUAGE ARTS (4 credits required)

- Foundation -

ENGLISH 1

Grade: 9 **Credit:** 1 **Prerequisite:** None

- writing skills – multi paragraph thesis development, grammar, punctuation, spelling, vocabulary
- reading comprehension skills – figurative and literal language
- literature (fiction/non-fiction) from a variety of genres and world authors
- oral discussion skills

ENGLISH 1 PAP (for course information please refer to advanced academic listings in previous section)

RESEARCH AND TECHNICAL WRITING

Grade: 9 **Credit:** ½ **Prerequisites:** none

All first year 9th grade students will take this course which includes:

- developing skills necessary for writing a variety of texts
- writing for a variety of purposes and audiences
- researching a topic using a variety of media
- writing for investigation
- understanding and mastery of the writing process
- applying conventions of usage and mechanics of written language
- evaluating of one's own and others' writings

ENGLISH 2

Grade: 10 **Credit:** 1 **Prerequisite:** English 1

- a wide range of elements of effective writing skills
- reading comprehension skills – figurative and literal language, inference, summary
- literature (fiction/non-fiction) from a variety of world authors
- oral discussion skills

ENGLISH 2 PAP (for course information please refer to advanced academic listings in previous section)

ENGLISH 3

Grade: 11 **Credit:** 1 **Prerequisite:** English 2

- independent study, reading and writing
- oral discussion skills
- a high level of reading comprehension, critical thinking, analytic skills
- stylistic maturity in writing skills
- American literature from the Puritan Era to the present

ENGLISH 3 AP (for course information please refer to advanced academic listings in previous section)

ENGLISH 3 DUAL CREDIT (for course information please refer to advanced academic listings in previous section)

ENGLISH 4

Grade: 12 **Credit:** 1 **Prerequisite:** English 3

- independent study, reading and writing
- oral discussion skills
- a high level of reading comprehension, critical thinking and analytic skills
- stylistic maturity in writing skills
- British/World literature (fiction/non-fiction)

ENGLISH 4 AP (for course information please refer to advanced academic listings in previous section)

ENGLISH 4 DUAL CREDIT (for course information please refer to advanced academic listings in previous section)

CREATIVE WRITING

Credit: 0.5 – 1.0

The study of creative writing allows high school students to earn one-half to one credit while developing versatility as a writer. Creative Writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms of writing as fictional writing, short stories, poetry, and drama.

PRACTICAL WRITING SKILLS

Credit: 0.5 – 1.0

The study of writing allows high school students to earn one-half to one credit while developing skills necessary for practical writing. This course emphasizes skill in the use of conventions and mechanics of written English, the appropriate and effective application of English grammar, the reading comprehension of informational text, and the effective use of vocabulary.

TARGETED INSTRUCTION ENGLISH 1 & 2

Grade: 10-12 **Local Credit:** 0.5 - 1 **Prerequisite:** None (counselor approval required)

Students who have not met standard on the English 1 or 2 EOC exams will have targeted instruction based upon needs identified through EOC testing data. Course content will be directed toward the following performance standards. The student will demonstrate ability to:

- understand and analyze a variety of written texts across reading genres
- understand and analyze literary texts
- understand and analyze informational texts
- compose a variety of expository, literary, and persuasive texts with a clear, controlling idea; coherent organization; sufficient development; and effective use of language and conventions
- revise and edit a variety of written texts

JOURNALISM

JOURNALISM 1

Grades: 9-12 **Credit:** 1 **Prerequisite:** None

- journalistic reporting, interviewing and writing
- overviews of desktop publishing, photography, advertising ethics, page layout and design
- specialized writing such as editorial, column, sports, feature and headline writing

NEWSPAPER 1, 2, and 3

Grades: 10-12 **Credit:** 1 **Prerequisite:** None

- teamwork in publishing a student newspaper
- writing, editing, word processing, typesetting, designing, layout, paste up
- opportunities to compete in UIL events in news, feature, editorial and headline writing
- responsibilities of staff positions (editor, photographer, reporters, business manager, etc.)

YEARBOOK 1, 2, and 3

Grades: 10-12 **Credit:** 1 **Prerequisite:** None

- individual skills and teamwork in publishing a yearbook
- taking photos, writing copy, designing layouts
- developing theme, using computer to generate layouts for pages
- selling advertisements and yearbook subscriptions

PHOTO JOURNALISM

Grades: 10-12 **Credit:** 0.5 - 1 **Prerequisite:** Journalism 1

BROADCAST JOURNALISM

Grades: 10-12 **Credit:** 1 **Prerequisite:** Journalism 1

DEBATE

DEBATE 1-3

Grades: 9-12 **Credit:** 1

Note: Does not meet professional communications credit requirements

- study of fundamentals of debate, topic research and extemporaneous speaking
- tournament practice and procedures
- debate/tournament competition
- extensive training in UIL and NFL competition

SPEECH (.5 credit required)

- Foundation -

COMMUNICATION APPLICATIONS

Grade: 9-12 **Credit:** 0.5 **Prerequisite:** None

- application of communication skills in everyday situations
- development of speech making techniques and oral presentations in a variety of situations
- development of appropriate interpersonal communication strategies in professional and social contexts

COMMUNICATION APPLICATIONS DUAL CREDIT– TJC SPCH 1315 Public Speaking (3 Hours)

Grade: 11-12 **Credit:** 0.5 **Prerequisite:** TSI Exempt

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations.

PROFESSIONAL COMMUNICATION

Grade: 9-12 **Credit:** 0.5 **Prerequisite:** None

- application of communication skills in everyday situations
- development of speech making techniques and oral presentations in a variety of situations
- development of appropriate interpersonal communication strategies in professional and social contexts

MATHEMATICS

- Foundation -

ALGEBRA 1

Grade: 9-12 **Credit:** 1 **Prerequisite:** None

- the development of the real number system
- the base for higher level mathematics

ALGEBRA 1 PAP (for course information please refer to advanced academic listings in previous section)

ALGEBRAIC REASONING

Grade: 9-12 **Credit:** 1 **Prerequisite:** Algebra 1

- build on Algebra I concepts
- students will broaden their knowledge of functions and relationships
- study functions through analysis and application
- explorations of patterns and structure, number and algebraic methods

GEOMETRY

Grade: 9-12 **Credit:** 1 **Prerequisite:** Algebra 1

- basic structure of geometry, geometric figures, concepts, formal proofs and deductive reasoning
- the use of algebraic skills in problem solving
- properties of parallel lines and planes, angle relationships and polygonal regions
- the coordinate plane and constructions

GEOMETRY PAP (for course information please refer to advanced academic listings in previous section)

ALGEBRA 2

Grade: 10-12 **Credit:** 1 **Prerequisite:** Algebra 1 and Geometry

- study of higher mathematics for the college bound student
- the application of algebraic concepts and skills
- a study of complex number system, mathematical reasoning
- linear functions and systems, quadratic systems
- exponential and logarithmic functions, sequences and series

ALGEBRA 2 PAP (for course information please refer to advanced academic listings in previous section)

MATH MODELS

Grade: 10-12 **Credit:** 1 **Prerequisite:** Algebra 1

- the use of algebraic, graphical, and geometric reasoning to recognize patterns and structure

- the use of mathematical models for algebra, geometry, probability, and statistics to solve real-life applied problems
- problem solving advanced applications

STATISTICS & BUSINESS DECISION-MAKING

Grade: 11-12 **Credit:** 1 **Prerequisite:** Algebra 2

- exploring data; observing patterns
- a study of life applicable statistical reasoning

PRECALCULUS

Grade: 10-12 **Credit:** 1 **Prerequisite:** Algebra 2

- the first semester study of trigonometry
- the study of properties of circular and trigonometric periodic functions
- the second semester study of elementary analysis
- mathematical induction and analytic geometry

For information on courses below please refer to advanced academic listings in previous section.

PRECALCULUS PAP

CALCULUS AB AP

CALCULUS BC AP

STATISTICS AP

TJC MATH 1314 COLLEGE ALGEBRA DUAL CREDIT = PRECALA DC

TJC MATH 1342 ELEMENARY STATISTICAL METHODS DUAL CREDIT= INSTMT1A DC

TJC MATH 2412 PRE-CALCULUS DUAL CREDIT = PRECALB DC

TARGETED INSTRUCTION - ALGEBRA 1

Grades: 10-12 **Local Credit:** 0.5 - 1 **Prerequisite:** None (counselor approval required)

Students who have not met standard on the Algebra 1 EOC will have targeted instruction based upon needs identified through EOC testing data. Course content will be directed toward the following performance standards.

The student will:

- describe functional relationships in a variety of ways
- demonstrate an understanding of the properties and attributes of functions
- demonstrate an understanding of linear functions
- formulate and use linear equations and inequalities
- demonstrate an understanding of quadratic and other nonlinear functions

SCIENCE
- Foundation -

BIOLOGY

Grade: 9-12 **Credit:** 1

Prerequisite: None

- ecological relationships between living things and their environments
- cells as the structural and functional units of life
- genetic concepts

- a survey of living kingdoms
- laboratory tools and techniques

This course requires an end of course exam

BIOLOGY PAP (for course information please refer to advanced academic listings in previous section)

INTEGRATED PHYSICS/CHEMISTRY

Grade: 9-12 Credit: 1

Prerequisite: None

Does not count for science credit on DAP program.

Must be taken before Chemistry and Physics if taken on the Recommended Program for science credit

- use of the scientific method and metric system in performing labs
- organization and characteristics of elements within the periodic table
- development of chemical equations which represent four major types of chemical reactions
- principles and relationships among force, mass, weight acceleration, momentum, speed, pressure, area and energy
- waves, sound, light, electricity, magnetism and heat

CHEMISTRY

Grade: 10-12 Credit: 1

Prerequisite: Biology, Alg1 and currently enrolled or completed Geometry

If taken for elective credit, may be taken in any sequence

- the study of the composition and changes of matter
- practical lab experiences
- college preparation skills

CHEMISTRY PAP (for course information please refer to advanced academic listings in previous section)

PHYSICS

Grade: 11-12 Credit: 1 Prerequisite: Algebra 2 (may be taken concurrently)

- waves – sound, light, mirrors, lenses, electricity – static, current, circuits, nuclear power
- mechanics – motion, Newton’s Law, thermodynamics – fluid mechanics

PHYSICS PAP (for course information please refer to advanced academic listings in previous section)

PHYSICS 1 AP (for course information please refer to advanced academic listings in previous section)

PHYSICS 2 AP (for course information please refer to advanced academic listings in previous section)

FORENSIC SCIENCE

Grade: 12 Credit: 1 Prerequisite: Biology and Chemistry

Uses structured and scientific approach to the investigation of crimes of assault, abuse, neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior

Students will:

- learn terminology and investigative procedures related to crime scene questioning and interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes
- Collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis

- History, legal aspects, and career options for forensic science

EARTH & SPACE SCIENCE

Grade: 11-12 **Credit:** 1 **Prerequisite:** three units of science, one of which may be taken concurrently, and three units of mathematics, one of which may be taken concurrently.

- this course emphasizes the study of space and the history of the universe, as well as its impact on the planet
- Earth in space and time; understanding of the origin, evolution and properties of Earth and planetary systems
- Solid Earth is a study of the geosphere
- Fluid Earth is a study of the hydrosphere, cryosphere and atmosphere subsystems

ANATOMY & PHYSIOLOGY (Beginning with 9th grade 2017-2018)

Grade: 11-12 **Credit:** 1 **Prerequisite:** Biology, Chemistry, and Physics or Biology, IPC and either Chemistry or Physics

- relationship between the organ systems of the human body and their functions
- study of disease, laboratory skills
- college level research involving outside reading projects
- preparation for entrance into health fields

BIOLOGY AP (for course information please refer to advanced academic listings in previous section)

CHEMISTRY AP (for course information please refer to advanced academic listings in previous section)

ENVIRONMENTAL SYSTEMS

Grade: 11-12 **Credit:** 1 **Prerequisite:** Biology, Chemistry, and Physics OR Biology, IPC, and either Chemistry or Physics

- biotic and abiotic factors in habitats
- ecosystems and biomes; interrelationships among resources and an environmental system
- sources and flow of energy through an environmental system
- relationship between carrying capacity and changes in populations and ecosystems
- changes in environments

ENVIRONMENTAL SCIENCE AP (for course information please refer to advanced academic listings in previous section)

SCIENTIFIC RESEARCH AND DESIGN

Grade: 11-12 **Credit:** 1 **Prerequisite:** One unit of high school science

This course allows students to learn about the natural world through science investigation. Students will be required to do research and use scientific processes to develop and implement an investigative design. By using proper scientific procedure to conduct the investigation designed by the student, qualitative and quantitative data will be collected and valid conclusions will be developed. The student will be required to communicate their work to an audience of professionals. This course may count for a 4th year science credit.

SCIENTIFIC RESEARCH AND DESIGN A DUAL CREDIT – TJC BIOL 1408 Biology for Non-Science Majors I (4 Hours)

Grade: 11-12 **Credit:** 0.5 **Prerequisite:** TSI Exempt or equivalent

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

SCIENTIFIC RESEARCH AND DESIGN B DUAL CREDIT – TJC BIOL 1409 Biology for Non-Science Majors II (4 Hours)

Grade: 11-12 **Credit:** 0.5 **Prerequisite:** TSI Exempt and BIOL 1408

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

SCIENTIFIC RESEARCH AND DESIGN III DUAL CREDIT – TJC BIOL 2404 Anatomy & Physiology (4 Hours)

Grade: 11-12 **Credit:** 1.0 **Prerequisite:** TSI Exempt or equivalent

Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized.

TARGETED INSTRUCTION - BIOLOGY

Grade: 10-12 **Credit:** 1 **Prerequisite:** None; counselor approval required

Students who have not met standard on the Biology EOC will have targeted instruction based upon needs identified through EOC testing data. Course content will be directed toward the following performance standards:

The student will demonstrate an understanding of:

- biometrics as building blocks of cells, and that cells are the basic unit of structure and function of living things
- the mechanisms of genetics
- the theory of biological evolution and the hierarchical classification of organisms
- metabolic processes, energy, conversions, and interactions and functions of systems in organisms
- the interdependence and interactions that occur with an environmental system and their significance

SOCIAL STUDIES (4 credits required)

- Foundation -

WORLD GEOGRAPHY

Grade: 9-11 **Credit:** 1 **Prerequisite:** None

World Geography is the study of major physical and cultural forces that have shaped the world and its people. Geography bridges the social and physical sciences by showing relationships between people and the environment. The course examines the human aspects of our world; people and their shelter, food, clothing, religions, languages, literature, music, art, customs and traditions. World Geography focuses on the interdependence of physical and human factors in our world to provide a practical framework for addressing local, national and global questions.

WORLD GEOGRAPHY PAP (for course information please refer to advanced academic listings in previous section)

WORLD HISTORY

Grade: 10-12 **Credit:** 1 **Prerequisite:** World Geography (or equivalent)

This course gives students the opportunity to trace the historical development of human cultures. Topics include early civilizations, historical development of western civilization and other regions of the world, geographical influences on world history, events, issues and developments through the 21st century. This course must be used for state World History requirement.

WORLD HISTORY AP (for course information please refer to advanced academic listings in previous section)

UNITED STATES HISTORY**Grade:** 11-12 **Credit:** 1 **Prerequisite:** World History (or equivalent)

During this course, the history of the United States from 1877 to the present time is surveyed. Topics included in this study are the emergence of the United States as a world power, the geographical influences on historical events, the economic development and growth of the United States, social and cultural developments of the United States, and the evolution of the political processes since the Civil War. This course must be used for state US History requirement.

UNITED STATES HISTORY AP (for course information please refer to advanced academic listings in previous section)**EUROPEAN HISTORY AP** (for course information please refer to advanced academic listings in previous section)**US HISTORY DUAL CREDIT** (for course information please refer to advanced academic listings in previous section)**PERSONAL FINANCIAL LITERACY****Grade:** 10-12 **Credit:** 0.5

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility.

PSYCHOLOGY**Grade:** 11-12 **Credit:** 0.5 **Prerequisite:** None

This one-semester introductory course offers students the opportunity to study the multifaceted field of psychology. Students will be provided opportunities to explore various careers related to psychology as well as to study scientific theories related to human growth, development and behavior.

PSYCHOLOGY DUAL CREDIT = TJC 2301 General Psychology (3 Hours)**Grade:** 11-12 **Credit:** 0.5 **Prerequisite:** TSI Exempt

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

PSYCHOLOGY AP (for course information please refer to advanced academic listings in previous section)**SOCIOLOGY****Grade:** 11-12 **Credit:** 0.5 **Prerequisite:** None

This one-semester course is the scientific study of human groups. A high interest course, it is designed for the student who enjoys discussion of current social issues. Topics of study include an introduction to criminology, a comprehensive study of the family, social institutions, and cultural variations. This course not only prepares those interested in the field for college level studies, but is designed to help students better understand themselves, others, and the world in which we live.

US GOVERNMENT**Grade:** 12 **Credit:** 0.5 **Prerequisite:** 3 Social Studies Credits

This course is designed to provide the student with an understanding of the functions of the United States, Texas, and local governments. Topics include the foundations and development of the United States governmental system; the purposes, political and economic philosophies of the United States Constitution, Bill of Rights, and Declaration of Independence; the structures and functions of governments at the federal, state and local levels, and responsibilities of American citizenship. This course must be used for state US Government requirement.

US GOVERNMENT AP (for course information please refer to advanced academic listings in previous section)

US GOVERNMENT DUAL CREDIT (for course information refer to advanced academic listings in previous section)

HUMAN GEOGRAPHY AP (for course information please refer to advanced academic listings in previous section)

TARGETED INSTRUCTION: US HISTORY

Grade: 12 Local Credit: 0.5 - 1 Prerequisite: None (counselor approval required)

Students who have not met standards on the US History EOC will have targeted instruction based upon needs identified through EOC testing data. Course content will be directed toward the following performance standards.

The student will demonstrate an understanding of the emergence of the United States as a world power, the geographical influences on historical events, the economic development and growth of the United States, social and cultural developments of the United States, and the evolution of the political processes since the Civil War.

ECONOMICS

Grade: 12 Credit: 0.5 Prerequisite: 3 Social Studies Credits

- study basic principles and theories of production, consumption, and distribution of goods and services

MACROECONOMICS AP (for course information please refer to advanced academic listings in previous section)

ECONOMICS DUAL CREDIT (for course information please refer to advanced academic listings in previous section)

LANGUAGES OTHER THAN ENGLISH (2 credits required)

- Foundation -

AP COMPUTER SCIENCE A

Grade: 11-12 Credit: 1 Prerequisite: Algebra 2 (PAP preferred) Test Fee: Yes

AP Computer Science A is equivalent to a first semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities.

AP COMPUTER SCIENCE PRINCIPLES

Grade: 10-12 Credit: 1 Prerequisite: Algebra 1 (PAP preferred) Test Fee: Yes

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts.

SPANISH 1

Grade: 9-12 Credit: 1 Prerequisite: None

- understanding, speaking, reading and writing Spanish
- study of Spanish cultures, music, dance, and literature
- grammar study & conversational Spanish

SPANISH 2 SS (Spanish for Native Speakers)

Grade: 9-12 **Credit:** 2 **Prerequisite:** Native Spanish Speaker (counselor approval required)

- accelerated study of Spanish 1 and Spanish 2 (1st semester prepares student for Spanish 1 Credit by Exam)
- Spanish 2 credit earned with course completion

SPANISH 2

Grade: 9-12 **Credit:** 1 **Prerequisite:** Spanish 1 or equivalent

- grammar study & conversational Spanish

SPANISH 3 PAP (for course information refer to advanced academic listings in previous section)

SPANISH 4 LANGUAGE AND COMPOSITION AP (for course information refer to advanced academic listings in previous section)

SPANISH 5 LITERATURE AND CULTURE AP (for course information refer to advanced academic listings in previous section)

FRENCH 1

Grade: 9-12 **Credit:** 1 **Prerequisite:** None

- oral skills to develop listening and speaking proficiency
- reading and writing skills to develop comprehension in non-oral contexts
- incorporation of cultural information concerning French-speaking countries
- continued study of cultural information regarding French speaking countries

FRENCH 2

Grade: 10-12 **Credit:** 1 **Prerequisite:** French 1

- oral skills to develop listening and speaking proficiency
- reading and writing skills to develop comprehension in non-oral contexts
- incorporation of cultural information concerning French-speaking countries
- continued study of cultural information regarding French speaking countries

FRENCH-3 PAP (for course information refer to advanced academic listings in previous section)

FRENCH 4 LANGUAGE AP (for course information refer to advanced academic listings in previous section)

AMERICAN SIGN LANGUAGE 1

Grade: 9-12 **Credit:** 1 each **Prerequisite:** None

A beginning level of Sign Language open for students who take the course as a foreign language. The course emphasizes visual and spatial modalities by using American Sign Language in everyday communication. Develop construct grammatical structure, facial expressions, everyday conversational, and experience in building expressive and receptive skills. Basic knowledge of Deaf Culture and Deaf History are included.

AMERICAN SIGN LANGUAGE 2

Grade: 10-12 **Credit:** 1 each **Prerequisite:** ASL 1

Intermediate level of Sign Language featuring new skills to describe items to develop receptive and expressive skills with increased accuracy and fluency. Provide opportunity for interaction within the Deaf Community.

AMERICAN SIGN LANGUAGE 3**Grade:** 11-12 **Credit:** 1 each **Prerequisite:** ASL 2

An advanced level of Sign Language providing new signing skills with expanded ASL vocabulary aspects in the conversation. This course emphasizes an opportunity to construct sign skills in narrating stories using classifiers and other linguistic features. Provide an opportunity for interaction within the Deaf community. Language and Deaf Culture are included.

AMERICAN SIGN LANGUAGE-3 PAP (for course information refer to advanced academic listings in previous section)**CHINESE 1****Grade:** 9-12 **Credit:** 1 each **Prerequisite:** None

This course is an Introduction to Mandarin Chinese beginning with the sound system of Mandarin Chinese and moves on to basic skills in listening, speaking, reading and writing, and an introduction to Chinese culture.

CHINESE 1 PAP (for course information refer to advanced academic listings in previous section)**CHINESE 2****Grade:** 9-12 **Credit:** 1 each **Prerequisite:** Chinese 1

Students will study basic practical vocabulary, grammar, culture, and pronunciation. Students will listen, speak, read, write and learn to express themselves, communicate and convey information with others in Mandarin Chinese on topics closely related to their own experiences and daily life.

CHINESE 2 PAP**Grade:** 9-12 **Credit:** 1 each **Prerequisite:** Chinese 1

Pre-AP Chinese is designed to prepare students for a Chinese III Pre-AP Chinese Language and Culture course. This course emphasizes students, listening, speaking, reading and writing skills and Chinese cultural studies are also included in the curriculum so that students' multicultural awareness is strengthened in the teaching and learning process.

CHINESE 3 PAP**Grade:** 9-12 **Credit:** 1 **Prerequisite:** Chinese 2

This course emphasizes students, listening, speaking, reading and writing skills and Chinese cultural studies are also included in the curriculum so that students' multicultural awareness is strengthened in the teaching and learning process.

HEALTH (0.5 Credit Required)**- Foundation -****HEALTH****Grade:** 9-12 **Credit:** 0.5 **Prerequisite:** None

- family health, social health, and the life cycle
- proper nutrition and eating disorders
- tobacco, alcohol, illegal drugs and recovering from addiction and co-dependency
- sexually transmitted diseases and disorders
- safety and emergency care

ADVANCED HEALTH (REL Only)**Grade:** 9-12 **Credit:** 0.5 **Prerequisite:** Health

- emphasis on physical, mental, emotional, and social components of health
- applied knowledge of subject through lab investigation, discussion and research

PHYSICAL EDUCATION/ATHLETICS**(1 credit required)****ATHLETICS****Grade:** 9-12 **Credit:** 0.5 - 1 **Prerequisite:** Previous participation or coach approval

- principles of physical fitness and conditioning
- participation in the athletics program

PE FOUNDATIONS OF PERSONAL FITNESS**Grade:** 9-12 **Credit:** 0.5 - 1 **Prerequisite:** None

- emphasis on personal fitness and conditioning
- choices for a healthy lifestyle

PE OUTDOOR ADVENTURES**Grade:** 9-12 **Credit:** 0.5- 1 **Prerequisite:** None

- emphasis on outdoor sports and activities
- includes wilderness training and team building

PE INDIVIDUAL SPORTS**Grade:** 9-12 **Credit:** 0.5 - 1 **Prerequisite:** None

- principles of physical fitness and conditioning
- emphasis on aerobic exercise

PE DANCE (JT Only)**Grade:** 9-12 **Credit:** 0.5 - 1 **Prerequisite:** None

- emphasizes physical fitness through elements of dance training

FINE ART

(1 credit required)

ART 1

Grade: 9-12 **Credit:** 1 **Prerequisite:** None

This course emphasizes:

- analytical presentation of design elements and principles
- overview of art history
- development of critical thinking skills
- development of drawing, painting, and sculptural skills
- decision making

ART 1 PAP (for course information refer to advanced academic listings in previous section)

ART 2 PAP (for course information refer to advanced academic listings in previous section)

ART 2 CERAMICS (JT only)

Grade: 10-12 **Credit:** 1 **Prerequisite:** Art 1

This course introduces the students to working with clay to create a variety of three-dimensional artwork, both utilitarian and sculptural. A fee of \$25 is required for firing and glazing.

This course emphasizes:

- various techniques for creating pieces
- process of working with clay from working wet, drying, decorating/glazing, finishing and firing
- care of lab & equipment and the history of clay forms in art

ART 2 PAINTING

Grade: 10-12 **Credit:** 1 **Prerequisite:** Art 1

This course emphasizes:

- painting in various media; water color, acrylic, and tempera, with an emphasis on acrylic painting
- study of color and color theory
- study of various application techniques
- study of historical and contemporary painting as relates to the various projects
- extension of technical skills

ART 3 PAINTING

Grade: 11-12 **Credit:** 1 **Prerequisite:** Art 1 & Art 2 Painting

This course emphasizes

- extending and refining technical skills
- the use of a variety of painting styles and media and tools including air brushes
- art elements and principles are used in in-depth design problems
- abstract, non-objective, and realistic approaches in painting
- historical/cultural heritage related to painting
- the use of sketchbooks to stimulate thinking

ART 4 PAINTING

Grade: 12 **Credit:** 1 **Prerequisite:** Art 1-3 Painting

This course emphasizes:

- individualized study; exploration of more technical processes
- exploration of career opportunities
- creative thinking is challenged
- compilation of a portfolio for presentation
- keeping a journal/sketchbook
- preparation of research project in art history
- personal exhibit before graduation

ART 2 DRAWING

Grade: 10-12 **Credit:** 1 **Prerequisite:** Art 1

This course emphasizes:

- further study of art elements and principles through drawing.
- study of various media such as pen and ink, scratchboard, colored pencils, pencils, pastels, and oil pastels
- development of individual styles using various techniques and tools
- study of art history in conjunction with drawing

ART 3 DRAWING

Grade: 11-12 **Credit:** 1 **Prerequisite:** Art 1 Drawing & Art 2 Drawing

This course emphasizes:

- extending and refining technical skills
- using a variety of drawing styles and media; use of tools, art elements and principles that are used in in-depth design problems
- experience in abstract, non-objective, and realistic approaches in drawing
- the investigation of historical/cultural heritage related to drawing
- sketchbooks to stimulate thinking

ART DRAWING AP (for course information refer to advanced academic listings in previous section)

ART 2- D DESIGN PORTFOLIO AP (for course information refer to advanced academic listings in previous section)

ART HISTORY AP (for course information refer to advanced academic listings in previous section)

BAND

CONCERT BAND 1-4

Grade: 9-12 **Credit:** 1 per class **Prerequisite:** Audition required; taken in sequence

This course emphasizes:

- development of individual & ensemble skills
- intermediate instrumental skills
- fall activities include football games, pep rallies, marching contest, parades
- spring activities include concerts, concert & sight-reading contest, spring trip
- discipline, spirit and teamwork
- same as other bands – perception, etc.

SYMPHONIC BAND 1-4

Grade: 9-12 **Credit:** 1 per class

Prerequisite: Audition required; taken in sequence

This course emphasizes:

- musical perception, creative expression/performance, historical/cultural heritage, response to and evaluation of musical performances
- development of individual and ensemble skills
- advanced instrumental skills
- fall activities include football games, pep rallies, marching contest, parades
- spring activities include concerts, concert and sight-reading contest, spring trip
- discipline, spirit and teamwork

WIND ENSEMBLE 1-4

Grade: 9-12 **Credit:** 1 per class

Prerequisite: Audition required; taken in sequence

This course emphasizes:

- musical perception, creative expression/performance, historical/cultural heritage, response to & evaluation of musical performances
- development of individual and ensemble skills and advanced instrumental skills
- fall activities include football games, pep rallies, marching contest, parades
- spring activities include concerts, concert and sight-reading contest, spring trip

JAZZ BAND 1-4

Grade: 9-12 **Credit:** 1 per class

Prerequisite: Audition required; taken in sequence

This course emphasizes:

- development of individual skills and group musical skills
- participation in many group functions, concerts and contests

PERCUSSION BATTERY 1-4

Grade: 9-12 **Credit:** 1 per class

Prerequisite: Audition

This course emphasizes:

- development of fundamentals and technique as pertains to all percussion instruments
- participation in many group functions, concerts and contests
- participation in UIL percussion ensembles; participation in marching drum line

COLOR GUARD (FLAGS)

Grade: 9-12 **Credit:** .5 credit per class

Prerequisite: Audition

This course emphasizes:

- development of flag, dance and marching skills
- performance of routines incorporating flags, dance, costumes and various props
- performs at football, basketball games, pep rallies, marching contests and parades
- may satisfy the PE graduation requirement

CHOIR

VOCAL ENSEMBLE – BOYS

Grade: 9-12 **Credit:** 1 per class **Prerequisite:** None

This course emphasizes:

- development of individual and group skills
- participation in many group functions

VOCAL ENSEMBLE – GIRLS

Grade: 9-12 **Credit:** 1 per class **Prerequisite:** None

This course emphasizes:

- development of individual and group skills
- participation in many group functions

CONCERT CHOIR 1-4

Grade: 9-12 **Credit:** 1 per class **Prerequisite:** Audition

This course emphasizes:

- development of individual music reading skills
- TMEA/UIIL competitions
- applications of basic music theory; participation in many group activities and performances

CHORALE 1-4

Grade: 9-12 **Credit:** 1 per class **Prerequisite:** Audition

This course emphasizes:

- development of individual music reading skills
- TMEA/UIIL competitions
- applications of basic music theory; participation in many group activities

VOCAL ENSEMBLE - GOOD VIBRATIONS (REL Only)

Grade: 10-12 **Credit:** 1 per class **Prerequisite:** Audition

- development of individual and group skills
- participation in many group functions

APPLIED MUSIC 1 - GUITAR 1 (JT Only -\$30.00 Rental Fee)

Grade: 9-12 **Credit:** 1 **Prerequisite:** None

APPLIED MUSIC 2 - GUITAR 2 (JT Only -\$30.00 Rental Fee)

Grade: 10-12 **Credit:** 1 **Prerequisite:** AppMus1 - Guitar 1

APPLIED MUSIC 3 - ELECTRIC KEYBOARD 1 (JT Only)

Grade: 9-12 **Credit:** 1 **Prerequisite:** None

APPLIED MUSIC 4 - ELECTRIC KEYBOARD 2 (JT Only)

Grade: 10-12 **Credit:** 1 **Prerequisite:** AppMus3 - Electric Keyboard 1

DANCE

Dance courses may be counted for P.E., Fine Arts, or state elective credit.

DANCE 1

Grade: 9-12 Credit: 1

Prerequisite: None

Dance 1 will incorporate all styles of dance: Jazz, Ballet, Modern, Folk, Tap, Choreography, and Production. Each unit will cover basics of technique, dance history, and pertinent relations to today's society. Instruction will also be given in general fitness, health, flexibility, strength, and cardiovascular endurance. The end of the year will culminate with a performance in the department's dance concert/spring show. Note: This is not an extra-curricular group.

DANCE 2

Grade: 10-12 Credit: 1

Prerequisite: Dance 1

Dance 2 will continue to build a strong base in all dance styles: Jazz, Ballet, Modern, Folk, Tap, Choreography, and Production. A more in-depth study in the basics of the year will culminate with a performance in the department's dance concert/spring show. Note: this is not an extra-curricular group.

DANCE 3

Grade: 11-12 Credit: 1

Dance 3 is an advanced study of all dance styles including Jazz, Ballet, Modern, Tap, Choreography, and Production. Building advanced technical skill, knowledge of dance history as well as relations to society and others will be the focal points of class. Students will engage in personal character building through journaling. Students will also have the opportunity to choreograph their own works for performance. The end of the year will culminate with performances of group work and possibly student choreography in the department's dance concert/spring show. Note: this is not an extra-curricular group.

DANCE 4

Grade: 10-12 Credit: 1

Prerequisite: Previous participation in the Dance Program

Dance 4 is an advanced study of all dance styles including Jazz, Ballet, Modern, Tap, Choreography, and Production. Building advanced technical skill, knowledge of dance history, as well as relations to society and others will be the focal points of class. Students will engage in personal character building through journaling. Students will also have the opportunity to choreograph their own works for performance.

PE DANCE 1 (JT only)

Grade: 9-12 Credit: 1

Prerequisite: None

This course emphasizes physical fitness through elements of dance training. Note: this is not an extra-curricular group, however this class WILL count as a prerequisite for Drill Team auditions. There are no uniforms or performance opportunities other than having an option to perform in the Brigadette Spring Show.

SOUTHERN BELLES (REL Only)

Grade: 10-12 Credit: 1 per class

Prerequisite: Audition

The Southern Belle Drill team will be composed of Seniors, Juniors, and Sophomores. The purpose of the Southern Belles is to support and perform at school and community activities and functions; to develop motor skills through dance; to foster good fellowship; to encourage scholarship; and to represent Tyler at dance competitions around the state. The Southern Belles will follow the rules and guidelines set by the Southern Belle Constitution.

BRIGADETTE DRILL TEAM (JT Only)

Grade: 10-12 Credit: 1 per class

Prerequisite: by audition only.

Student must be currently enrolled in a John Tyler Dance class or Pep Squad class at the time of auditions. This is an extra-curricular organization that requires a fee and extra time spent outside the regular school day. The Brigadette Drill Team is composed of Sophomores, Juniors and Seniors. The purpose is to support and perform at school and community activities/functions; to develop motor skills through dance; to foster good fellowship; to encourage scholarship; and to represent the school. The Brigadettes will follow the rules and guidelines set by the Brigadette Constitution.

DRILL PREP 1-3 (REL Only)

Grade: 9-11 Credit: 1 per class

The Southern Belle Drill prep classes will be composed of Freshman, Sophomores and Juniors. The purpose of the drill prep program is to prepare for becoming a Southern Belle member; to perfect kick and dance technique; to perform/participate at designated school and community activities; to perform in the Southern Belle Showcase; to foster good fellowship; and to encourage scholarship. Students must have director approval to enter the drill prep program. The drill prep program will follow the rules and guidelines set by the Southern Belle Constitution.

POM SQUAD (REL Only)

Grade: 9-12 Credit: 1 per class

The Pom Squad will be composed of Freshman, Sophomores, Juniors, and Seniors. The Pom Squad will be considered a spirit group. The purpose of the Pom Squad is to cheer in the stands at junior varsity and home varsity football games, perform at designated junior varsity athletic events; to participate in pep rallies; to learn basic dance and kick techniques; to perform at the Southern Belle Showcase; to foster good fellowship; and to encourage scholarship. The Pom Squad program will follow the rules and guidelines set by the Southern Belle Constitution.

BLUE BRIGADE PEP SQUAD (JT Only)

Grade: 9-12 Credit: 1 per class

The Blue Brigade Pep Squad can be composed of Freshman, Sophomores, Juniors and Seniors. This class is designed for students that may have an interest in pursuing Drill Team and enjoy being in a spirit group to support JT athletics and the community. It is an in-depth study of Drill Team, dance and high kick fundamentals and will concentrate on preparing students for Drill Team auditions in the spring. The Pep Squad will follow the rules and guidelines set by the Brigadette/Blue Brigade Constitution. Participation will be mandatory once enrolled in the class.

CHAMBER ORCHESTRA (REL Only)

Grade: 9-12 Credit: 1 per class

Prerequisite: Audition

- advanced musical perception, creative expression/performance, historical/cultural heritage, response to and evaluation of musical performances
- development of individual & ensemble skills at advanced level
- advanced instrumental skills and extensive knowledge of advanced positions is required
- required activities include TMEA region auditions, UIL events; concert and sight-reading contest, solo performance, spring and fall concerts and additional performances as scheduled
- routine practicing outside of class time/private lessons
- varsity performances

SYMPHONY ORCHESTRA (REL Only)

Grade: 9-12 Credit: 1 per class

Prerequisite: Audition

This course emphasizes:

- higher level of musical perception, creative expression/performance, historical/cultural heritage, response to and evaluation of musical performances
- development of individual skills at the intermediate and advanced levels
- participation in many group functions
- required activities may include TMEA and UIL competition, fall and spring concerts and additional performances as scheduled
- routine practicing outside of class time
- non-varsity performances

SWING FIDDLE (REL Only)

Grade: 9-12 Credit: 1 per class

Prerequisite: Audition

This course emphasizes:

- basic ensemble performance
- individual skills development and improvisation skills
- performances outside of the regular school day
- participation in one of the four orchestra classes in addition to fiddle class
- routine practicing outside of class time

MUSIC & MEDIA

MUSIC/MEDIA COMMUNICATIONS

Grade: 10-12 Credit: 1

Prerequisite: None

Music and Media Communications is a project-based music curriculum for high school students that develops the link between traditional music education and digital media. Music and Media Communications is a Texas Education Agency (TEA) – approved innovative course that may serve as elective credit toward high school graduation and is designed to prepare students for post-secondary study in creative disciplines and for work in creative industries using technology as a primary tool.

MUSIC THEORY AP (for course information refer to advanced academic listings in previous section)

THEATRE

THEATER ARTS 1

Grade: 9-12 Credit: 1

This course emphasizes:

- live stage performance appreciation and audience etiquette
- basic theories of acting
- basic theories of play production
- individual and ensemble (group) performances required
- theatrical vocabulary, elements, conventions and basic concepts
- experiences that develop a broad knowledge base and technical skills
- historical/cultural backgrounds of various works and genres
- strategies for evaluating theater experiences

THEATER ARTS 1 APPRECIATION

Grade: 9-12 Credit: 1

Prerequisite: None

This course emphasizes:

- theater from an audience point of view
- theater history, plays and playwrights
- an overview of the acting process and the technical process
- the art of dramaturgy (critique of the theater)
- a brief study in film history and where film is currently

THEATER ARTS 2-4

Grade: 10-12 Credit: 1 per class

Prerequisite: Taken in sequence; audition or teacher recommendation.

This course emphasizes:

- in-depth acting techniques and character development
- basic directing techniques and practical applications
- theater history and period acting styles
- production work in technical theater and production
- individual and ensemble performances required

THEATER PRODUCTION 1-3

Grade: 10-12 Credit: 1 per class

Prerequisite: Theater 1 and teacher approval through audition

These courses are designed for the advanced theater student who is involved in all the major productions in the department. Production participation (including after school production work) is required.

These courses emphasize:

- workshop atmosphere that will include production meetings, work on the shows, and plans for other co-curricular theater activities
- leadership training and individual development
- stage management
- technical theater projects
- acting styles
- character analysis and development

TECHNICAL THEATER 1

Grade: 10-12 Credit: 1

Prerequisite: Theater 1

This course emphasizes:

- appreciation and understanding of the role of technical theater
- theater production concepts and skills
- exploration of theatrical scenery, properties, lights and sound
- study of career opportunities
- production crew work required and live theater attendance required

TECHNICAL THEATER 2-3

Grade: 11-12 Credit: 1 per class

Prerequisite: Technical Theater 1

This course emphasizes:

- advanced study and practice in stagecraft
- crew leadership responsibilities
- study of career opportunities
- design projects
- production work required

MUSICAL THEATER 1-2

Grade: 9-12 Credit: 1-2

The Musical Theater course is a study of both Musical History as well as performance. The following aspects will be addressed:

- Musical Theater History and the emergence of the modern musical
- choreography and light dance
- movement
- the role of the singing actor, including characterization and performance
- interpretation of songs by an actor
- performance opportunities

This course is especially appropriate for students planning to pursue musical theater on the University or professional level.

AVID

AVID 1 (ADVANCEMENT VIA INDIVIDUAL DETERMINATION)

Grade: 9 Credit: 1

Prerequisite: Committee Approval based on national and local criteria

Requirement: Enrollment in one or more advanced level classes

This course includes writing to learn, test-taking skills, rigorous and relevant curriculum, Socratic method, extracurricular activities such as cultural and career events and college field trips. Eligible students in AVID 1 may receive .5 credit for Professional Communications. Grades for Professional Communications will be based upon the semester two average in AVID and recorded on the transcript. The AVID1 elective course will serve as a review of the AVID philosophy and strategies such as note-taking skills, subject specific, collaborative tutorial groups and the organizational tool. Students will work on academic and personal goals, communication, adjusting to the high school setting, increasing awareness of their personal contributions to their learning, as well as their involvement in their school and community. There is an emphasis on analytical writing, focusing on personal goals and thesis writing. Students will prepare for and participate in college entrance and placement exams while refining study skills and test-taking, note-taking and research techniques.

AVID 2

Grade: 10 Credit: 1

Prerequisite: Committee approval based on national and local criteria

Requirement: Enrollment in one of more advanced level classes

This course includes writing to learn, test-taking skills, rigorous and relevant curriculum, Socratic method, extracurricular activities such as cultural and career events and college field trips. Eligible students in AVID 2 may receive .5 credit for Professional Communications. Grades for Professional Communications will be based upon the semester two average in AVID and recorded on the transcript. During the AVID 2 elective courses, students will refine the AVID strategies to meet their independent needs and learning styles. Students will continue to refine and adjust their academic learning plans and goals, increasing awareness of their actions and behaviors. As students increase the rigorous course load and school/community involvement, they will refine their time management and study skills accordingly. Students will expand their writing portfolio and also analyze various documents in order to participate in collaborative discussions and develop leadership skills in those settings. Students will expand their vocabulary use, continuing to prepare for college entrance exams and preparation. Students will narrow down their college and careers of interest, based on personal interests and goals.

AVID 3

Grade: 11 Credit: 1

Prerequisite: Committee Approval based on national and local criteria

Requirement: Enrollment in one or more advanced level classes

This course includes writing to learn, test-taking skills, rigorous and relevant curriculum, Socratic method, extracurricular activities such as cultural and career events and college field trips. Eligible students in AVID 3 may receive .5 credit for Professional Communications. Grades for Professional Communications will be based upon the semester two average in AVID and recorded on the transcript. The AVID 3 elective course focuses on writing and critical thinking expected of first and second-year college students. In addition to the academic focus, there are college-bound activities, methodologies and tasks that should be undertaken during the junior year to support students as they apply to four-year universities and support and/or confirm their postsecondary plans.

AVID 4

Grade: 12 Credit: 1

Prerequisite: Committee Approval based on national and local criteria

Requirement: Successful completion of graduation requirements

The AVID4 elective course focuses on writing and critical thinking (an extension of AVID 3 activities). The course emphasizes rhetorical reading, analytical writing, collaborative discussion strategies, tutorial inquiry, study groups, preparation for college entrance and placement exams, college study skills and test-taking strategies, note-taking and research. In addition to the academic focus, there are college-bound activities, methodologies and tasks that should be achieved during the senior year that support students as they apply to four-year universities and confirm their postsecondary plans. All AVID seniors are required to apply to a minimum of 6 colleges/universities (can be a combination of both four-year and two-year).

Junior Reserve Officer Training Corps

ROTC1

Grade: 9-12 Credit: 1

Topics taught include Drill and Ceremony (marching), Foundations of Army JROTC and Getting Involved, Leadership Theory and Application, Foundations for Success, First Aid and Drug Awareness, Service Learning Project, Cadet Challenge and Physical Training. A physical education credit can be earned for this course.

ROTC2

Grade: 10-12 Credit: 1 Prerequisite: ROTC1

Topics taught include Drill and Ceremony (marching), Achieving a Healthy Lifestyle, Geography, Map Skills, Environmental Awareness, Citizenship in American History and Government, Service Learning Project, Cadet Challenge and Physical Training.

ROTC3

Grade: 11-12 Credit: 1 Prerequisite: ROTC2

Topics taught include Drill and Ceremony (marching), Citizenship in Action, Leadership Planning and Strategies, Presentation Skills, Managing Conflict, Career Planning, NEFE High School Financial Planning Program, Service Learning Project, Cadet Challenge and Physical Training.

ROTC4

Grade: 12 Credit: 1 Prerequisite: ROTC3

Topics taught include Drill and Ceremony (marching), Service to the Nation, Leadership Principles, Leadership Strategies, Teaching Skills, Environmental Awareness, Service Learning Project, Cadet Challenge and Physical Training.

Special Education and Students with Disabilities

Curriculum Components

Special Education services are available on both high school-campuses in Tyler ISD. While many services are provided in the general education classroom setting, we do provide a continuum of services including classes taught by special educators focused on attainment of grade level skills for graduation and/or functional academic skills needed to ensure successful integration into the community and the world of work.

Services are provided until the student graduates or no longer meets the age requirements as referenced in the Texas Education Code 29.001 and 29.003.

A student receiving special education services who is younger than 22 years of age on September 1 of a scholastic year may be eligible for services through the end of that scholastic year or until graduation.

Graduation constitutes a release from services and is a change in placement. A student receiving special education services may graduate and be awarded a regular high school diploma if the student meets all of the requirements for graduation. Graduation requirements differ based on the year the student entered 9th grade.

Students with disabilities may participate in a graduation ceremony after completing four years of high school (TEC § 28.025 (f))

Special Education

Special education and related services are specifically designed instructional services developed to support students with disabilities within the general curriculum. The intent of the support services is to enable all students with disabilities to make progress in the general curriculum, to participate in extracurricular and nonacademic activities, and to be educated and participate with non-disabled peers in the public school system.

Tyler ISD is committed to meeting the needs of students who have cognitive, physical, emotional or learning differences. Each campus utilizes a Student Support Team that meets to discuss and recommend intervention strategies through general education programming. Students who are referred for special education support and services must participate in an evaluation process with formal notice and consent of parents. If evaluation information shows eligibility for special education support and services, an Admission, Review and Dismissal (ARD) Committee develops an appropriate educational program for each student.

An ARD Committee includes:

- The student and his/her parent;
- District representative;
- Evaluation representative;
- At least one of the student's general education teachers;
- A special education teacher (The child's disability may require a teacher certified in a specific area, such as Visual or Auditory impairment);
- Related services provider, if required;
- Language Proficiency Assessment Committee representative, if required;

- Career and Technical Education Representative, if CTE is being considered for the student.
- The program developed by the ARD Committee is referred to as an Individualized Education Program (IEP). The IEP is implemented in the least restrictive environment appropriate for the student.
- The student and parents have legal rights under the Individuals with Disabilities Education Act (IDEA) that are outlined in the Procedural Safeguards. Parents also receive information from Texas Education Agency in the booklet, "A Guide to the Admission, Review and Dismissal Process." Information about these rights are provided and explained to parents and/or adult students at least one time per year, and: when a student is initially referred for evaluation, when requested by parent, and at the initial filing of a due process hearing.

Students with Disabilities–Section 504

The Rehabilitation Act of 1973, reauthorized in 2008, commonly referred to as "Section 504," is a non-discrimination statute enacted by the United States Congress. The purpose of the Act is to prohibit discrimination and to ensure that students with disabilities have educational opportunities and benefits equal to those provided to other students. An eligible student under Section 504 is a student who has a physical or mental impairment that substantially limits them in a major life activity such as learning, self-care, walking, seeing, hearing, speaking, reading, concentrating, breathing, working and performing manual tasks. See the school counselor or campus 504 Coordinator for more information about services for qualifying students.

Students with Dyslexia and Related Disorders

Students with dyslexia have difficulty with reading, writing and/or spelling. Each campus has a teacher (the dyslexia Designee) knowledgeable about dyslexia and Dyslexia intervention. This person is trained to reevaluate, instruct, and monitor eligible students. Schools serve students with dyslexia or related disorders in a variety of ways determined by a campus 504 committee. Services may include specialized instruction, classroom accommodations, and assistive technology. See the school counselor or campus 504 Coordinator for more information about services for qualifying students.

CAREER AND TECHNICAL EDUCATION (CTE)

CTE programs are designed to prepare our students for high-wage, high-skill, and high-demand careers after they graduate from high school. We want students to pursue their interests and discover the opportunities they may not have known about prior to taking their CTE courses. Our programs enable students to have one of three options: become certified or licensed in a particular skill, gain entry-level employment, and/or continue their education in post-secondary institutions. CTE courses fall under 3 Endorsements recognized by the State of Texas which satisfy requirements for graduation under the Foundations Program. Within each Endorsement are several Career Cluster pathways, which are similar to occupations, and students take a coherent sequence of courses that prepare him/ her for the specific field. For more information about CTE in Tyler ISD or the Career & Technology Center, visit our website at: www.ctc.tylerisd.org

Some advanced CTE courses require course expenses, as noted below. When taking dual-credit classes on a TJC campus, students are responsible for college-required textbooks, tools to be used during the class and kept after its completion, uniforms, and transportation to/ from any TJC class. The Tyler ISD CTE department pays for each student's tuition and associated fees as funds are available.

PUBLIC SERVICES ENDORSEMENT

Cosmetology Pathway

PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE

Grade: 9 –12 **Credit:** 1

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

INTRODUCTION TO COSMETOLOGY

Grade 10 only **Credit:** 1

Course Expense: \$25.00 to be paid before entering class for temporary student license.

In Introduction to Cosmetology, students explore careers in the cosmetology industry. To prepare for success, students must have academic and technical knowledge and skills relative to the industry. Students may begin to earn hours toward state licensing requirements.

COSMETOLOGY I with LAB

Grade: 11 only **Credit:** 3 **Recommended Prerequisite(s):** Introduction to Cosmetology

Licensure or Certification Opportunity: NO

Course Expenses: Yes – student must purchase required professional cosmetology kit to be used both years of program and into beginning career. An installment plan is available.

Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, haircare, nail care, and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included.

COSMETOLOGY II with LAB

Grade: 12 only **Credit:** 3 **Prerequisite(s):** Cosmetology I

Licensure or Certification Opportunity: YES

Course Expenses: Yes – student must purchase required professional cosmetology kit to be used both years of program and into beginning career. An installment plan is available.

Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, haircare, nail care, and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included.

Fire Fighting Pathway

PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY

Grade: 9 **Credit:** 1 **Prerequisite(s):** None

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections.

LAW ENFORCEMENT 1

Grade: 10-12 **Credit:** 1 **Prerequisite(s):** None

Dual Credit Opportunity: Eligible for Technical Dual Credit with Tyler Junior College Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

FIREFIGHTER I

Grade: 11-12 **Credit:** 2 **Recommended Prerequisite:** Law Enforcement 1

Firefighter I introduces students to firefighter safety and development. Students will analyze Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety.

FIREFIGHTER II

Grade: 12 **Credit:** 3 **Prerequisite:** Firefighter I

Firefighter II is the second course in a series for students studying firefighter safety and development. Students will understand Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety. Students will demonstrate proper use of fire extinguishers, ground ladders, fire hoses, and water supply apparatus systems.

EMT BASIC TJC (Extended Practicum)

Grade: 12 **Credit:** 3 **Prerequisite(s):** Health Science Theory & Clinical or Law Enforcement II

Course Expenses: Yes – student must purchase required college textbooks and any tools & supplies required of the TJC curriculum. Drug testing and fingerprinting prior to beginning class and all uniform costs will be paid by student. \$10 (\$5 Medicaid) toward cost of immunizations, TB test, flu shot and \$20 toward cost of drug test and background check, if applicable. The CTE Department will cover some of these expenses as long as funds are available.

- Transportation Required: Yes – student must provide own transportation to/ from TJC Main Campus
- Age Requirement: Must be 18 years old by April 1st to go on required onboard EMT vehicle rotation
- College Credit Opportunity: Yes – Tyler Junior College
- Licensure or Certification Opportunity: YES
- DAEP (Discipline Alternative Education Program): Discretionary DAEP assignment may result in removal from this course if mandatory contact hours are required for certification. Mandatory DAEP assignment will result in removal from this course.

The following practicums are designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. The practicum courses will provide direct hands-on experience in the specific certification being pursued.

Health Science Pathway

PRINCIPLES OF HEALTH SCIENCE

Grade: 9

Credit: 1 – Course does NOT count for required graduation credit for Health

Course Description: The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry

MEDICAL TERMINOLOGY

Grade: 10

Credit: 1

Prerequisite(s): None

Technical Dual Credit with TJC.

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

HEALTH SCIENCE THEORY (1) Co-requisite HEALTH SCIENCE CLINICAL (1)

Grade: 11 – 12

Credit: 2

Prerequisite(s): Biology

College Credit Opportunity: Possible Technical Dual Credit with Tyler Junior College

Course Expenses: Yes.

This is a clinical rotation class. Hospitals, clinics, and pharmacies require participating students to have drug testing and fingerprinting prior to beginning rotations. \$10 (\$5 Medicaid) toward cost of immunizations, TB test, flu shot and \$20 toward cost of drug test and background check, if applicable. The CTE Department will cover some of these expenses as long as funds are available.

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development. Health Science Clinical Course Description: focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. The Health Science Clinical course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

PRACTICUM IN HEALTH SCIENCE

Grade: 12

Credit: 2

Prerequisites: Health Science Theory and Health Science Clinical, Biology (Anatomy & Physiology if possible)

Practicum Specializations:

- Pharmacy Technician
- Medical Assistant
- Certified Nurse's Assistant
- Patient Care Technician
- Emergency Medical Technician

Possible TJC Technical Dual Credit

Licensure or Certification: Yes

Course Expenses: Yes. Drug Testing, fingerprinting, TB test, Flu Shot, and background check.

The above practicums are designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. The practicum courses will provide direct hands-on experience in the specific certification being pursued.

ANATOMY & PHYSIOLOGY (Beginning with 9th grade 2017-2018)

Grade: 11-12 **Credit:** 1 **Prerequisites:** Biology and a second science credit.

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Law Enforcement Pathway

PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY

Grade: 9 **Credit:** 1 **Prerequisite(s):** None

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections.

LAW ENFORCEMENT 1

Grade: 10-12 **Credit:** 1 **Prerequisite(s):** None

Dual Credit Opportunity: Eligible for Technical Dual Credit with Tyler Junior College Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

LAW ENFORCEMENT 2 & CORRECTIONAL SERVICES

Grade: 11-12 **Credit:** 2 **Recommended Prerequisite:** Law Enforcement 1

Law Enforcement 2 provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

Correctional Services focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services.

COURT SYSTEMS & PRACTICES Co-requisite with: **CRIMINAL INVESTIGATION**

Grade 12 **Credit** 2 **Recommended Prerequisite:** Law Enforcement I

Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation. Mock trial experiences will also be included.

Criminal Investigation introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime

scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.

FORENSIC SCIENCE

Grade: 12 **Credit:** 1 (satisfies 4th Science requirement) **Prerequisites:** Biology and Chemistry

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.

PRACTICUM IN LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY

Grade: 12 **Credits:** 2 **Prerequisites:** Coherent sequence of Law I, Law II, Criminal Investigating, Correctional Services, Court System Practice

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Law, Public Safety, Corrections, and Security Career Cluster.

Sports Medicine Pathway

PRINCIPLES OF HEALTH SCIENCE

Grade: 9 **Credit:** 1 – Course does NOT count for required graduation credit for Health

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry

MEDICAL TERMINOLOGY

Grade: 10 **Credit:** 1 **Prerequisite:** None **Technical Dual Credit with TJC.**

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

SPORTS MEDICINE I

Grade: 11 **Credit:** 1 **Prerequisite:** None

This course provides an opportunity for the study and application of the components of sports medicine including sports medicine, concepts of sports injury, athletic healthcare team, sports injury law, sports injury prevention, sports psychology, nutrition, recognition of injuries, emergency action plan and initial injury evaluation, first aid/CPR/AED, the injury process, immediate care of athletic injuries of specific body areas, skin conditions in sports, blood borne pathogens, thermal injuries, and special medical concerns of the adolescent athlete.

SPORTS MEDICINE II

Grade: 12 **Credit:** 1 **Prerequisite:** Sports Medicine I

This course provides a more in-depth study and application of the components of sports medicine including: CPR and AED certification, rehabilitative techniques; therapeutic modalities; prevention, recognition, and care of injuries to the head and face, spine, upper extremity, lower extremity; taping and bandaging; injuries to the young athlete; substance abuse in sports; and general health concerns in sports medicine.

ANATOMY AND PHYSIOLOGY (Beginning with 9th grade 2017-2018)

Grade: 11-12 **Credit:** 1 **Prerequisite(s):** Biology and a second science credit.

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

PATHOPHYSIOLOGY

Grade: 11-12 **Credit:** 1 **Prerequisite(s):** Biology and Chemistry

The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Teaching and Education Pathway

PRINCIPLE OF ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

Grade: 9 **Credit:** 1

Careers in audio and video technology and video production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology and Communications career cluster, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills and educational requirements for those opportunities.

CHILD DEVELOPMENT

Grade: 9 **Credit:** 1

Child Development is a technical laboratory course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

HUMAN GROWTH AND DEVELOPMENT

Grade: 10 – 12 **Credit:** 1

Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one semester introductory course in developmental psychology or human development.

INSTRUCTIONAL PRACTICES IN EDUCATION & TRAINING

Grade: 11--12 **Credit:** 2 **Recommended Prerequisite(s):** Human Growth and Development

Instructional Practices in Education and Training is a field based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

PRACTICUM IN EDUCATION AND TRAINING

Grade: 11 – 12 **Credit:** 2 **Prerequisite(s):** Instructional Practices

Practicum in Education and Training is a field based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

BUSINESS & INDUSTRY ENDORSEMENT - -

Accounting Pathway

PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE

Grade: 9 –12 **Credit:** 1 **Prerequisite:** None

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

SECURITIES AND INVESTMENTS

Grade: 9 –12 **Credit:** 1 **Prerequisite:** None

In Securities and Investments, students will understand the laws and regulations to manage business operations and transactions in the securities industry.

ACCOUNTING I

Grade: 10 – 12 **Credit:** 1 **Prerequisite:** None

College Credit Opportunity: Possible Technical Dual Credit with Tyler Junior College

Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they

engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students formulate and interpret financial information for use in management decision making.

ACCOUNTING II

Grade: 11 – 12

Credit: 1

Prerequisite: Accounting I

College Credit Opportunity: Possible Technical Dual credit with Tyler Junior College

Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making.

STATISTICS AND BUSINESS DECISION MAKING

Grade: 11--12

Credit: 1 **This course satisfies a high school mathematics graduation requirement.**

Prerequisites: Algebra II.

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

The process standards describe ways in which students are expected to engage in the content. The placement of the process standards at the beginning of the knowledge and skills listed for each grade and course is intentional. The process standards weave the other knowledge and skills together so that students may be successful problem solvers and use mathematics efficiently and effectively in daily life. The process standards are integrated at every grade level and course. When possible, students will apply mathematics to problems arising in everyday life, society, and the workplace. Students will use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution. Students will select appropriate tools such as real objects, manipulatives, paper and pencil, and technology and techniques such as mental math, estimation, and number sense to solve problems. Students will effectively communicate mathematical ideas, reasoning, and their implications using multiple representations such as symbols, diagrams, graphs, and language. Students will use mathematical relationships to generate solutions and make connections and predictions. Students will analyze mathematical relationships to connect and communicate mathematical ideas.

****(Could substitute Business Management)**

Animation Pathway

PRINCIPLES OF ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

Grade: 9

Credit: 1

Prerequisites: None

Careers in audio and video technology and video production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology and Communications career cluster, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills and educational requirements for those opportunities.

DIGITAL MEDIA

Grade: 10--12

Credit: 1

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and

interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

ANIMATION I (1) Co--requisite with: ANIMATION I LAB (1)

Grade: 11 – 12 **Credit:** 2

Licensure or Certification Opportunity: YES

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the history and techniques of the animation industry.

ANIMATION II (ADVANIM) (1) Co--Requisite with: ANIMATION II LAB (1)

Grade: 12 **Credit:** 2 **Prerequisite(s):** Animation I

Licensure or Certification Opportunity: YES

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to create two- and three-dimensional animations. The instruction also assists students seeking careers in the animation industry.

Architecture Pathway

PRINCIPLES OF ARCHITECTURE

Grade: 9 **Credit:** 1 **Prerequisite(s):** None

Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals. Job specific training can be provided through training modules that identify career goals in trade and industry areas. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.

ARCHITECTURAL DESIGN I

Grade: 10-12 **Credit:** 1 **Prerequisites:** Algebra I and English I

College Credit Opportunity: Technical Dual Credit with Tyler Junior College

In Architectural Design I, students will gain knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design I includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.

ARCHITECTURAL DESIGN II

Grade: 11--12 **Credit:** 2 **Prerequisite:** Architectural I and Geometry

In Architectural Design II, students will gain advanced knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design II includes the advanced knowledge of the design,

design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.

PRACTICUM IN ARCHITECTURAL DESIGN

Grade: 12 **Credit:** 2 **Prerequisite:** Architectural Design II

Practicum in Architectural Design is an occupationally specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Audio/Video Production Pathway

PRINCIPLES OF ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

Grade: 9 **Credit:** 1 **Prerequisites:** None

Careers in audio and video technology and video production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology and Communications career cluster, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills and educational requirements for those opportunities.

AUDIO/VIDEO PRODUCTION I

Grade: 10-12 **Credit:** 1 **Prerequisite:** None

A/V Production I focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content, including visual and performing arts and design, journalism, and entertainment services.

AUDIO/VIDEO PRODUCTION II Co-requisite: AUDIO/VIDEO PRODUCTION II LAB

Grade: 11-12 **Credit:** 2 **Perquisite:** Audio/Video Production I

Building upon the concepts taught in Audio/Video Production, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post- production products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, and critical-thinking, problem-solving, and collaborative skills. This course may be implemented in an audio format or a format with both audio and video. Requiring a lab requisite for the course affords necessary time devoted specifically to the production and post-production process.

PRACTICUM IN AUDIO/VIDEO PRODUCTION

Grade: 12 **Credit:** 2 **Perquisite:** Audio/Video Production II

The Practicum in Audio/Video Production builds upon the concepts taught in Audio/Video Production II with Lab. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video products in a professional environment.

Automotive Technology Mechanics Pathway

AUTOMOTIVE BASICS

Grade: 9 **Credit:** 1 **Prerequisites:** None

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

MECHANICS AND METAL TECHNOLOGIES

Grade: 10–12 **Credit:** 1

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

COLLISION REPAIR

Grade: 11–12 **Credit:** 2 **Recommended Prerequisite:** Ag Mechanics & Metal Technologies

Licensure or Certification Opportunity: Yes

Course Expenses: Yes, Collision Shirt

Collision Repair includes knowledge of the process, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.

PAINT AND REFINISHING

Grade: 12 **Credit:** 2 **Recommended Prerequisite:** Collision Repair & Refinishing

Licensure or Certification Opportunity: YES

Course Expenses: Yes, Collision Shirt

Paint and Refinishing includes knowledge of processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concept and theory of systems related to automotive paint and refinishing.

AUTO TECH (TJC)

Grade: 11–12 **Credit:** 2 **Recommended Prerequisite(s):** Ag Mechanics & Metal Technologies

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification and proper tool to use.

Prerequisite(s): Algebra I; Geometry; Bennett Mechanical test; Meet TJC Dual credit standard (meet TSI standards in Math, Reading and Writing)

Course Expenses: Yes – student must purchase required college textbooks and any tools & supplies required of the TJC curriculum. The CTE Department will cover tuition as long as funds are available.

Attendance: Any accumulation of tardiness and/or absenteeism that results in a total of more than 10% non-attendance will result in automatic dismissal from the course.

Course Completion: The student must successfully complete the fall courses in order to enroll in the courses during the spring semester. Failure to do so will result in removal from the course.

College Credit Opportunity: Dual Credit with Tyler Junior College

Licensure or Certification Opportunity: Yes

Transportation Required: Yes – student is responsible for transporting themselves to and from the TJC West Campus to participate in the course. Course typically meets from 4:30 pm to 6:00 pm Monday--Thursday.

DAEP (Discipline Alternative Education Program): Discretionary DAEP assignment may result in removal from this course. Mandatory DAEP assignment will result in removal from this course.

ADVANCED AUTO TECH (TJC)

Grade: 12 **Credit:** 3 **Prerequisite(s):** AUTO TECH (TJC)

Advanced Automotive Technology includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Course Expenses: Yes – student must purchase required college textbooks and any tools & supplies required of the TJC curriculum. The CTE Department will cover tuition as long as funds are available.

Attendance: Any accumulation of tardiness and/or absenteeism that results in a total of more than 10% non-attendance will result in automatic dismissal from the course.

Course Completion: The student must successfully complete the fall courses in order to enroll in the courses during the spring semester. Failure to do so will result in removal from the course.

College Credit Opportunity: Dual Credit with Tyler Junior College

Licensure or Certification Opportunity: Yes

Transportation Required: Yes – student is responsible for transporting themselves to and from the TJC West Campus to participate in the course. Course typically meets from 4:30 pm to 6:00 pm Monday--Thursday.

DAEP (Discipline Alternative Education Program): Discretionary DAEP assignment may result in removal from this course. Mandatory DAEP assignment will result in removal from this course.

Business Management and Administration Pathway

PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE

Grade: 9 **Credit:** 1 **Prerequisite(s):** None

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

BUSINESS MANAGEMENT

Grade: 10 – 12 **Credit:** 1 **Recommended Prerequisite:** Principles of Business, Marketing and Finance

College Credit Opportunity: Possible Technical Dual Credit with Tyler Junior College

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.

BUSINESS INFORMATION MANAGEMENT I

Grade: 9 – 12 **Credit:** 1 **Prerequisite(s):** None

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

BUSINESS INFORMATION MANAGEMENT II

Grade: 10--12 **Credit:** 1 **Prerequisite:** Business Information Management I

In Business Information Management II, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.

PRACTICUM IN BUSINESS MANAGEMENT

Grade: 10--12 **Credit:** 1 **Recommended Prerequisite:** Business Information Management II

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Construction Technology Pathway

PRINCIPLES OF CONSTRUCTION

Grades: 9--12 **Credit:** 1

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

****(Could substitute Principles of Architecture)

MECHANICS AND METAL TECHNOLOGIES

Grade: 10--12 **Credit:** 1

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

CONSTRUCTION TECHNOLOGY I

Grade: 11 – 12 **Credit:** 2

Licensure or Certification Opportunity: YES

In Construction Technology I, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. For safety and liability considerations limiting classes to 15 students per class.

CONSTRUCTION TECHNOLOGY II

Grade: 12 **Credit:** 2 **Prerequisite:** Construction Technology I

Licensure or Certification Opportunity: YES

In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills. For safety and liability considerations, limiting course enrollment to 15 students is recommended.

Culinary Arts Pathway

PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE

Grade: 9-12 **Credit:** 1 **Prerequisites:** None

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

INTRODUCTION TO CULINARY ARTS

Grade 10 **Credit:** 1

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the foodservice industry. This course is offered as a classroom and laboratory based course.

CULINARY ARTS

Grade: 11 – 12 **Credit:** 2 **Recommended Prerequisite(s):** Introduction to Culinary Arts

Licensure or Certification Opportunity: YES

Course Fees: Possible Smock

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

EXTENDED PRACTICUM IN CULINARY ARTS - BAKING or COOKING (3)

Grade: 12 **Credit:** 3 **Prerequisite(s):** Culinary Arts

Licensure or Certification Opportunity: YES

Course Fees: Possible Smock

This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast changing workplace.

Diesel Technology Pathway

AUTOMOTIVE BASICS

Grade: 9 **Credit:** 1 **Prerequisites:** None

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

MECHANICS AND METAL TECHNOLOGIES

Grade: 10–12 **Credit:** 1

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

DIESEL EQUIPMENT TECHNOLOGY I

Grade: 11–12 **Credit:** 2

Diesel Equipment Technology I includes knowledge of the function and maintenance of diesel systems. Rapid advances in diesel technology have created new career opportunities and demands in the transportation industry. This course provides the knowledge, skills, and technologies required for employment in transportation systems.

DIESEL EQUIPMENT TECHNOLOGY II

Grade: 12 **Credit:** 2

Diesel Equipment Technology II includes knowledge of the function, diagnosis, and service of diesel equipment systems. Rapid advances in diesel technology have created new career opportunities and demands in the transportation industry. This course provides the advanced knowledge, skills, and technologies required for employment in transportation systems.

Fashion Design Pathway

PRINCIPLES OF ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

Grade: 9 **Credit:** 1 **Prerequisites:** None

Careers in audio and video technology and video production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology and Communications career cluster, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills and educational requirements for those opportunities.

DIGITAL MEDIA

Grade: 10–12 **Credit:** 1 **Prerequisite(s):** None

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

FASHION DESIGN I (1) Co--requisite with: FASHION DESIGN I LAB (1)

Grade: 10 – 12 **Credit:** 2

Careers in Fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, A/V Technology and Communications career cluster, students will be expected to develop an understanding of fashion and the textile and apparel industries.

Fashion Design I Lab: Students will learn to apply design principles and elements with altering and constructing apparel.

FASHION DESIGN II (1) Co--requisite with: FASHION DESIGN II LAB (1)

Grade: 11 – 12 **Credit:** 2 **Prerequisite(s):** Fashion Design I and Lab I

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of fashion, with emphasis on design and production.

Fashion Design II Lab: Students will create career portfolios to document their work samples of Fashion Designs. Students will construct custom made garments. Learn how to do fashion image consulting.

Finance Pathway

PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE

Grade: 9–12 **Credit:** 1 **Prerequisite:** None

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

SECURITIES AND INVESTMENTS

Grade: 9–12 **Credit:** 1 **Prerequisite:** None

In Securities and Investments, students will understand the laws and regulations to manage business operations and transactions in the securities industry.

INSURANCE OPERATIONS

Grade: 10–12 **Credit:** 1 **Recommended Prerequisite:** Business, Marketing and Finance

In Insurance Operations, students will understand the laws and regulations to manage business operations and transactions in the insurance industry.

FINANCIAL ANALYSIS

Grade: 10–12 **Credit:** 1 **Prerequisite:** Accounting I

In Financial Analysis, students will apply knowledge and technical skills in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students will develop analytical skills by actively evaluating financial results of multiple businesses, interpreting results for stakeholders, and presenting strategic recommendations for performance improvement.

Graphic Design Pathway

PRINCIPLES OF ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

Grade: 9 **Credit:** 1 **Prerequisites:** None

Careers in audio and video technology and video production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology and Communications career cluster, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills and educational requirements for those opportunities.

DIGITAL MEDIA

Grade: 10–12 **Credit:** 1

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

GRAPHIC DESIGN & ILLUSTRATION I (1) Co--requisite with GRAPHIC DESIGN & ILLUSTRATION I LAB (1)

Grade: 11--12 **Credit:** 2

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

GRAPHIC DESIGN AND ILLUSTRATION II (1) Co-requisite with GRAPHIC DESIGN & ILLUSTRATION II LAB (1)

Grade: 12 **Credit:** 2 **Prerequisites:** Graphic Design and Illustration I

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Heating, Ventilation and Air Condition Pathway (HVAC)

PRINCIPLES OF CONSTRUCTION

Grades: 9--12 **Credit:** 1

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

****(Could substitute Principles of Architecture)

MECHANICS AND METAL TECHNOLOGIES

Grade: 10--12 **Credit:** 1

Course Expenses: NO

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION TECHNOLOGY (HVACREF1 & HVACREF2) TJC

Grade: 11-12 **Credit:** 3

Prerequisite(s): Algebra I; Geometry; Welding; pass Bennett Mechanical test; Meet TJC Dual credit standard (meet TSI standards in Math, Reading and Writing)

College Credit Opportunity: Tyler Junior College Associate's Degree program

Licensure or Certification Opportunity: Yes

Course Expenses: Yes – student must purchase required college textbooks and any tools & supplies required of the TJC curriculum. The CTE Department will cover tuition as long as funds are available.

Attendance: Any accumulation of tardiness and/or absenteeism that results in a total of more than 10% non-attendance will result in automatic dismissal from the course.

TJC Course: Fall Semester – HART 1400, HART 1401, HART 1407 (8 week courses) ; Spring Semester – HART 1403, HART 1441, HART 1445 (8 week courses)

Course Completion: The student must successfully complete the fall courses in order to enroll in the courses during the spring semester. Failure to do so will result in removal from the course.

Transportation Required: Yes – student is responsible for transporting themselves to and from the TJC West Campus to participate in the course. Course typically meets from 4:30 pm to 6:00 pm Monday Thursday.

DAEP (Discipline Alternative Education Program): Discretionary DAEP assignment may result in removal from this course. Mandatory DAEP assignment will result in removal from this course.

Course Description: In Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology, students gain knowledge and skills specific to those needed to enter the industry as technicians in the HVAC and refrigeration industry or building maintenance technician or supervisor or prepare for a postsecondary degree. Students acquire knowledge and skills in safety, principles of HVAC theory, tools, codes, and installation of HVAC and refrigeration equipment.

EXTENDED PRACTICUM IN CONSTRUCTION TECHNOLOGY (HVAC) TJC

Grade: 11-12 **Credit:** 3

Prerequisite(s): Algebra I; Geometry; Welding; pass Bennett Mechanical test; Meet TJC Dual credit standard (meet TSI standards in Math, Reading and Writing)

College Credit Opportunity: Tyler Junior College Associate's Degree program

Licensure or Certification Opportunity: Yes

Course Expenses: Yes – student must purchase required college textbooks and any tools & supplies required of the TJC curriculum. The CTE Department will cover tuition as long as funds are available.

Attendance: Any accumulation of tardiness and/or absenteeism that results in a total of more than 10% non-attendance will result in automatic dismissal from the course.

TJC Course: Fall Semester – HART 2442, HART 2435, HART 2445 (8 week courses) ; Spring Semester – HART 2336, HART 2349, HART 2357 (8 week courses)

Course Completion: The student must successfully complete the fall courses in order to enroll in the courses during the spring semester. Failure to do so will result in removal from the course.

Transportation Required: Yes – student is responsible for transporting themselves to and from the TJC West Campus to participate in the course. Course typically meets from 4:30 pm to 6:00 pm Monday Thursday.

DAEP (Discipline Alternative Education Program): Discretionary DAEP assignment may result in removal from this course. Mandatory DAEP assignment will result in removal from this course.

Course Description: In Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology, students gain knowledge and skills specific to those needed to enter the industry as technicians in the HVAC and refrigeration industry or building maintenance technician or supervisor or prepare for a postsecondary degree. Students acquire knowledge and skills in safety, principles of HVAC theory, tools, codes, and installation of HVAC and refrigeration equipment.

Information Technology Pathway

PRINCIPLES OF INFORMATION TECHNOLOGY

Grade: 9 **Credit:** 1 **Prerequisites:** None

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

COMPUTER PROGRAMMING I

Grade: 10--12 **Credit:** 1 **Recommended Prerequisites:** Algebra I, and Principles of Information Technology

Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as it relates to computer programming. Students apply technical skills to address business applications of emerging technologies.

COMPUTER PROGRAMMING II (1 Credit) Co--requisite with WEB TECHNOLOGIES (1 Credit)

Grade: 11 - 12 **Credit:** 2 **Recommended Prerequisites:** Computer Programming I

Certification

In Computer Programming II, students will expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions. Students will analyze the social responsibility of business and industry regarding the significant issues relating to environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies.

Through the study of web technologies and design, students learn to make informed decisions and apply the decisions to the field of information technology. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment.

PRACTICUM IN INFORMATION TECHNOLOGY

Grade: 12 **Credit:** 2 **Prerequisite:** A minimum of two high school information technology courses.

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

COMPUTER MAINTENANCE (1) Co-requisite with COMPUTER MAINTENANCE LAB (1)**Grade:** 11 – 12**Credit:** 2**Recommended Prerequisites:** Principles of Information Technology**College Credit Opportunity:** Technical Dual Credit with Tyler Junior College**Licensure or Certification Opportunity:** YES

Students acquire principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad-level components related to the installation, diagnosis, service, and repair of computer systems. To prepare for success, students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Course Description for Computer Maintenance Lab: In Computer Maintenance Lab, students will acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies.

NETWORKING (1) Co-requisite with NETWORKING LAB (1)**Grade:** 11 – 12**Credit:** 2**Recommended Prerequisites:** Computer Maintenance**Licensure or Certification Opportunity:** YES

Students develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Networking Lab Course Description: In Networking, students will develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Manufacturing Pathway

PRINCIPLES OF MANUFACTURING**Grade:** 9-12**Credit:** 1**Recommended Prerequisites:** Algebra I or Geometry

In Principles of Manufacturing, students are introduced to knowledge and skills used in the proper application of principles of manufacturing. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities. Students will gain an understanding of what employers require to gain and maintain employment in manufacturing careers.

DIVERSIFIED MANUFACTURING I**Grade:** 10--12**Credit:** 1**Recommended Prerequisite(s):** Algebra I

In Diversified Manufacturing I, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. The study of manufacturing systems allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. Diversified Manufacturing I allows students the opportunity to understand the process of mass production by using a wide variety of materials and manufacturing techniques. Knowledge about career opportunities, requirements, and expectations and the development of skills prepare students for workplace success.

METAL FABRICATION AND MACHINING I

Grade: 10--12 **Credit:** 2 **Recommended Prerequisites:** Algebra I or Geometry

Metal Fabrication and Machining I provides the knowledge, skills, and certifications required for equal employment opportunities in the metal production industry. Students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

METAL FABRICATION AND MACHINING II

Grade: 11--12 **Credit:** 2 **Prerequisite:** Metal Fabrication and Machining I

Metal Fabrication and Machining II builds on the knowledge, skills, and certifications students acquire in Metal Fabrication and Machining I. Students will develop advanced concepts and skills as related to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Marketing Pathway

PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE

Grade: 9-12 **Credit:** 1 **Prerequisites:** None

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

ENTREPRENEURSHIP

Grade: 10 – 12 **Credit:** 1 **Prerequisite:** None

Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services.

ADVANCED MARKETING

Grade: 11--12 **Credit:** 2 **Prerequisites:** One credit from the courses in the Marketing Career Cluster.

In Advanced Marketing, students will gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to solve problems related to marketing. This course covers technology, communication, and customer service skills.

PRACTICUM IN MARKETING

Grade: 11--12 **Credit:** 2 **Recommended Prerequisites:** Principles in Business, Marketing and Finance

Students will gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills. Students will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions.

Veterinary Applications Pathway

PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES

Grade: 9 **Credit:** 1 **Prerequisites:** None

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings.

SMALL ANIMAL MANAGEMENT 0.5 Co--requisite with EQUINE SCIENCE 0.5

Grade: 10 **Credit:** 1

Small Animal Management: To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

Equine Science: To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules.

VETERINARY MEDICAL APPLICATIONS Co--requisite with AGRICULTURE LAB

Grade: 11 - 12 **Credit:** 2 **Prerequisites:** Small Animal Management, Equine Science or Livestock Production

Licensure or Certification Opportunity: YES

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

LIVESTOCK PRODUCTION Co--requisite with ADVANCED ANIMAL SCIENCE

Grade: 12 **Credit:** 2 **Prerequisites:** Biology and Chemistry or IPC; Algebra I and Geometry; Small Animal Management, Equine Science or Livestock Production

Livestock Production: To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain

academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Welding Technology Pathway

PRINCIPLES OF MANUFACTURING

Grade: 9-12 **Credit:** 1 **Recommended Prerequisites:** Algebra I or Geometry

In Principles of Manufacturing, students are introduced to knowledge and skills used in the proper application of principles of manufacturing. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities. Students will gain an understanding of what employers require to gain and maintain employment in manufacturing careers.

DIVERSIFIED MANUFACTURING I

Grade: 10--12 **Credit:** 1 **Recommended Prerequisite(s):** Algebra I

In Diversified Manufacturing I, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. The study of manufacturing systems allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. Diversified Manufacturing I allows students the opportunity to understand the process of mass production by using a wide variety of materials and manufacturing techniques. Knowledge about career opportunities, requirements, and expectations and the development of skills prepare students for workplace success.

WELDING I

Grade: 11--12 **Credit:** 2 **Recommended Prerequisite(s):** Algebra I and Principles of Manufacturing
Licensure or Certification Opportunity: YES

Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

WELDING II

Grade: 12 **Credit:** 2 **Prerequisite(s):** Welding I
Licensure or Certification Opportunity: YES

Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

ADVANCED WELDING (TJC)

Grade: 12 **Credit:** 3

Prerequisite(s): Welding Technology, Algebra I; Geometry; Bennett Mechanical test; Algebra I; Meet TJC Dual credit standard (meet TSI standards in Math, Reading and Writing)

Course Expenses: Yes – student must purchase required college textbooks and any tools & supplies required of the TJC curriculum. The CTE Department will cover tuition as long as funds are available.

Attendance: Any accumulation of tardiness and/or absenteeism that results in a total of more than 10% non-attendance will result in automatic dismissal from the course.

Course Completion: The student must successfully complete the fall courses in order to enroll in the courses during the spring semester. Failure to do so will result in removal from the course.

College Credit Opportunity: Dual Credit with Tyler Junior College

Licensure or Certification Opportunity: Yes

TJC Course: Fall Semester – WLDG 1313 (8 week course) ; Spring Semester – WLDG 1453 (8-week course)

Transportation Required: Yes – student is responsible for transporting themselves to and from the TJC West Campus to participate in the course. Course typically meets from 4:30 pm to 6:00 pm Monday--Thursday.

DAEP (Discipline Alternative Education Program): Discretionary DAEP assignment may result in removal from this course. Mandatory DAEP assignment will result in removal from this course.

Course Description: Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM)

Engineering Pathway

PRINCIPLES OF APPLIED ENGINEERING

Grade: 09-10 **Credit:** 1

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions.

Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

ENGINEERING SCIENCE

Grade: 10 - 12 **Credit:** 1 **Prerequisites:** Algebra I and Biology, Chemistry, IPC or Physics

Engineering Science is an engineering course designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

AEROSPACE ENGINEERING concurrently enrolled with CIVIL ENGINEERING & ARCHITECTURE

Grade: 11-12

Credit: 2

Prerequisite(s): Principles of Engineering

College Credit Opportunity: Technical Dual Credit with Tyler Junior College

Aerospace Engineering propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry standard software. They also explore robot systems through projects such as remotely operated vehicles.

Civil Engineering and Architecture is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry. The major focus of the CEA course is to expose students to the design and construction of residential and commercial building projects, design teams and teamwork, communication methods, engineering standards, and technical documentation.

PRACTICUM IN STEM – AEROSPACE

Grade 12

Credit: 2

Prerequisite: CEA & Aerospace

The Practicum in STEM-Aerospace allows qualified students to extend and enrich their aerospace engineering experiences by providing additional knowledge and skills necessary to advance their interests in the aviation industry. This course is designed to prepare students to take and pass the Federal Aviation Administration (FAA) Private Pilot Airman Knowledge Test, which includes topics such as Federal Air Regulations, Navigation, Metrology and physics of flight. This test is a requisite exam for obtaining the FAA Private Pilot's License.

Robotics Pathway

PRINCIPLES OF APPLIED ENGINEERING

Grade: 09-10

Credit: 1

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions.

Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

ROBOTICS I

Grade: 9 - 10

Credit: 1

Recommended Prerequisite: Principles of Applied Engineering

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

ROBOTICS II Co--requisite with ENGINEERING DESIGN AND PRESENTATION I

Grade: 10-12

Credit: 2

Prerequisite: Robotics I and Algebra I

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

Engineering Design and Presentation I is a continuation of knowledge and skills learned in Principles of Applied Engineering. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

ENGINEERING DESIGN AND PRESENTATION II

Grade: 11-12 **Credit:** 2 **Prerequisite:** Algebra I and Geometry

Engineering Design and Presentation II is a continuation of knowledge and skills learned in Engineering Design and Presentation I. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Emphasis will be placed on using skills from ideation through prototyping.

CAREER DEVELOPMENT

CAREER PREPARATION I

Grade: 11 – 12 **Credit:** 2 **Prerequisite(s):** None

Personal Transportation Required: Yes

Employment Required: Yes – Student must have a training station (job) secured and approved by the teacher/coordinator before the start of the school year. Fifteen (15) hours of paid work will be required per week with ten (10) of those hours taking place Monday – Friday. The remaining five (5) hours may be worked on the weekend.

Career Preparation I provide opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast changing workplace. This instructional arrangement should be an advanced component of a student’s individual program of study. Students are taught employability skills, which include job specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

CAREER PREPARATION II

Grade: 12 **Credit:** 2 **Prerequisite(s):** Career Preparation I

Personal Transportation Required: Yes

Employment Required: Yes – Student must have a training station (job) secured and approved by the teacher/coordinator before the start of the school year. Fifteen (15) hours of paid work will be required per week with ten (10) of those hours taking place Monday – Friday. The remaining five (5) hours may be worked on the weekend.

Career and Technical Elective Courses:

BUSINESS MANAGEMENT

Grade: 10 – 12 **Credit:** 1 **Recommended Prerequisite:** Principles of Business, Marketing and Finance

College Credit Opportunity: Possible Technical Dual Credit with Tyler Junior College

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.

ENTREPRENEURSHIP

Grade: 10– 12 **Credit:** 1 **Prerequisite(s):** None

College Credit Opportunity: Possible Technical Dual Credit with Tyler Junior College

Students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit.

DOLLARS AND SENSE

Grade: 11 – 12 **Credit:** 0.5 **Prerequisite(s):** None

Dollars and Sense focuses on consumer practices and responsibilities, the money management process, decision-making skills, impact of technology, and preparation for human services careers. Students are encouraged to participate in career and technical student organizations and other leadership organizations.

DIGITAL MEDIA

Grade: 10–12 **Credit:** 1 **Prerequisite(s):** None

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

LIFETIME NUTRITION AND WELLNESS (0.5)

Grade: 9–12 **Credit:** 0.5 **Prerequisite(s):** None

Lifetime Nutrition and Wellness Course Description: This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.