



Elgin ISD

**High School
Course Guide
2015 – 2016**

Elgin ISD Course Guide 2015-2016

Elgin High School

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DISTRICT MISSION STATEMENT

Elgin ISD ensures a high-quality education that guarantees a life-changing experience for all.

DISTRICT VISION STATEMENT

Elgin ISD changes lives.

Elgin Independent School District does not discriminate on the basis of race, sex, age, religion, color, national origin, or disability in providing education services, activities or programs. It is the intent and policy of this District to conduct its activities in compliance with all Federal and State laws prohibiting discrimination on the basis of race, sex, age, religion, color, national origin, or disability.

El Distrito Independiente Escolar de Elgin no discrimina a base de raza, sexo, edad, religión, color, origen nacional, o incapacidad en proveer servicios educacionales, actividades, o programas. Es la intención y norma del Distrito de conducir sus actividades de acuerdo con todas las leyes Federales y Estatales prohibiendo discriminación a base de raza, sexo, edad, religión, color, origen nacional o incapacidad.



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General Information

Grade Level Classifications

Freshman	1st year	0-5.5 earned credits
Sophomore	2nd year (+)	6-11.5 earned credits
Junior	3rd year (+)	12-17.5 earned credits
Senior	4th year (+)	18 earned credits

These classifications are based on the number of credits actually completed prior to the first day of school.

Awarding of Credits

For a two-semester course in which both semesters are completed in the fall and spring of the same school year, each semester's grade stands on its own. A full credit will be awarded if the average of the fall and spring semesters is at least 70. Students transferring in during the spring semester with a failing fall semester grade may receive credit under this policy.

Note: Summer courses stand alone and will not average with the fall or spring semester grades.

The following numerical values will be used for letter grades transferred to the school:

A+ = 97	B+ = 87	C+ = 79	D+ = 74	F = 59
A = 94	B = 84	C = 77	D = 72	
A- = 90	B- = 80	C- = 75	D- = 70	

College Course Grade Conversions – Dual Credit/Early College High School Courses

Austin Community College and other higher education institutions typically use the following grading system for college coursework:

Grade	Interpretation	Grade Points per Semester Credit hour
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Minimum Passing	1
F	Failing	0
I	Incomplete	Not Computed
W	Withdrew	Not Computed

Upon course completion, Elgin High School will use the following numerical values, in place of the alpha grades assigned by the higher education partnering institution. These numerical grades will be used for high school purposes such as calculating GPA and rank.

A = 97	B = 87	C = 79	D = 74	F = 59
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Class Rank

Class rank is the academic position a student has in relation to other students in the grade level. Class rank is reported comparing that student to the total number of students in the grade level. The position or rank shall be reported as “number (____) out of (____) students in graduating class.” The student with the highest rank average is number one in the grade level and the student with the lowest rank average is the last student in the grade level. For example, given 250 students in a grade level, the highest ranking student (number one) would be reported as 1 of 250; the lowest ranking student would be reported as 250 of 250. All other students are ranked in between highest (number one) and lowest (last). Example: Student A is ranked number 6 out of 250 students in the graduating class.

Because students will receive a higher weighted rank point for the more difficult level courses, weighted class ranking encourages students to take more challenging academic courses in preparation for further learning after high school.

The rank points for each semester course on the weighted rank list taken in middle school and in all four years of high school shall be used to determine the academic class rankings. While courses are weighted when figuring class rank, actual grades earned will appear on all report cards and transcripts.

Academic Achievement

Honor students' rankings are calculated using grades through the end of the fifth six-weeks grading period of their senior year. The students ranked as numbers 1 and 2 shall be selected to give honors' addresses for graduation exercises. Senior class ranking for the purpose of determining Valedictorian and Salutatorian is calculated at the end of the final week of the sixth six-week grading period.

Recognition for academic honors will be given to the following graduating seniors:

- Valedictorian – The highest-ranking 4th-year student shall be recognized as valedictorian.
- Salutatorian – The second highest-ranking 4th-year student shall be recognized as salutatorian.
- Honor Students – The top ten ranking students, including the valedictorian and salutatorian, shall be recognized as honor students.
- Summa Cum Laude – The top 5 percent of the class shall be recognized as summa cum laude graduates.
- Magna Cum Laude – The top 10 percent of the class shall be recognized as magna cum laude graduates.
- Cum Laude – The top 15 percent of the class shall be recognized as cum laude graduates.

Grade Point Average (GPA)

Two GPAs will be shown on the transcript: a weighted GPA and an **un-weighted GPA**. The **weighted GPA** is used to determine the Class Rank. *Freshman students entering high school in the 2014-2015 school year and beyond are required to successfully complete Algebra II and an endorsement in order to be eligible for automatic admission into any Texas public university.*

The **un-weighted GPA** will be listed as “College 4-Point.” The college 4-point GPA is the cumulative average of a semester grades, including courses that are taken more than once, regardless of credit awarded. Each semester grade will earn the following points: 100 - 90 = 4 points, 89 - 80 = 3 points, 79 - 75 = 2 points 74 - 70=1 point and 69 – 0 = 0 points. The total points are divided by the total number of applicable semester grades.

Pre-Advanced Placement (Pre-AP), Advanced Placement (AP), and Dual Credit Courses

Pre-Advanced Placement (Pre-AP) Courses

Pre-AP courses at the high school include activities and strategies designed to engage students in active, high-level learning. Students will develop the skills, habits of mind, and concepts needed to succeed in AP classes. Depth of material requires students to read and write extensively in and out of class.

Advanced Placement (AP) Courses & Exams

Advanced Placement courses are developed by the College Board and are designed to provide college-level studies for high school students using college level materials and strategies. Amount and depth of material requires students to read and develop advanced reasoning and problem solving skills. These courses are offered for students who wish to pursue college-level studies while in high school.

In addition to high school credit, students may receive credit or appropriate placement from participating colleges provided they make acceptable scores on AP exams, which are administered in May and paid for by the district. Exams may also be taken by students who do not enroll in advanced placement courses in high school. Students should go to www.collegeboard.org or see their counselor for additional information. In order to fulfill the requirements of an AP course and earn weighted points, students enrolled in an AP course **are required** to take the corresponding AP exam.

Dual Credit Courses

Dual credit courses are offered to students interested in taking college credit courses while still in high school.. In order to be eligible for a dual credit course, students must meet minimum requirements for Texas Success Initiative (TSI) compliance (see chart below). In addition to earning a minimum TSI score, students are responsible for completing the college application process through www.applytexas.org and submitting the Dual Credit/ECHS student agreement found in *Appendix C* to the Elgin HS Counseling Center.

Please refer to *Appendix D* for the listing of dual credit courses and *Appendix B* for additional dual credit information, including the long-term financial effects of dropping a college-level course. Students will receive college credit upon passing the course. Most courses will transfer to any Texas public college or university.

If a student drops a dual credit course by the college census date, approximately two weeks after the start of the dual credit course, he/she can enroll in a corresponding Elgin High School course. If a student drops a dual credit course after the college census date, the student will be placed in an un-weighted (regular level) course with a transfer grade of 50, unless the school receives official grade information from the college. *It is the responsibility of the student to obtain official grade information from the dual credit professor.* For college purposes, the last day students can drop a dual credit course with a "W" will be in accordance with the corresponding college calendar.

State-Approved Scores for TSI Compliance

Assessment	Math Score	Reading/Writing Score
TSI Assessment (state test)	350	Reading = 351; Writing=5 or 4/363
ACT (Valid for 5 years)	Math=19 and Comp=23	English=19 and Comp=23
SAT (Valid for 5 years)	Math=500 and Combined score=1070	Critical Reading=500 and Combined score=1070

Pre-AP, AP, and Dual Credit Grading Policies

Student performance is evaluated on rigorous standards appropriate for the level and content of the course. Courses are weighted when figuring class rank; however, actual grades earned will appear on all report cards and transcripts. In order to receive weighted points at the semester for a Pre-AP, AP and/or dual credit course, the student must be enrolled in the advanced course for the semester and fulfill all requirements for the course including taking the corresponding AP exam. If an advanced course is dropped within a semester, the un-weighted grade transfers to the new class.

Comparison of Advanced Placement (AP) and Dual Credit

	Advanced Placement (AP)	Dual Credit
Description	The AP Program allows students to take college-level courses and exams while in high school. A strong score on the culminating exam may result in college credit or placement.	Dual Credit allows high school students to earn both high school and college credit simultaneously by completing courses at the high school and/or college campus.
Credit	College credit may be awarded depending on the student's score on the AP examination. Individual colleges and universities, not the College Board or the AP Program, determine course credit and placement.	High school and college credit is awarded when the student passes the course.
Teachers/ Instructors	Taught by high school teachers who are expected to complete AP training.	Taught by adjunct college professors and approved high school instructors.
College/ University Acceptance	Accepted at numerous universities nationwide; typically requires a 3 or higher on the AP exam (contingent on university). Students should check with their chosen universities to see if AP credit is awarded.	Accepted at public (and some private) colleges and universities in Texas as well as many outside of Texas. Requires semester average of "C" or better for transferability.
Taught	AP courses are taken on the high school campus or online if offered.	Dual Credit courses are taken at the high school, college campus, or online.
Eligibility	Open to any high school student.	Open to students who meet specified college readiness standard scores.
Costs	Textbooks are provided by EISD. AP exams are currently paid for by EISD.	Textbooks are provided by EISD for courses taken at the HS campus.

Weighted Class Rank/GPA Chart

(Only courses listed below shall be included in the weighted class rank/GPA computation)

Multiplier	English	Math	Science	Social Studies	Foreign Language	Others
.9	English I* English II* English III* English IV* *Modified or Alt (Determined by Committee)	Algebra I* Geometry* Math Models* Algebra II* *Modified or Alt (Determined by Committee)	Integrated Physics Chemistry* Biology* Physics* *Modified or Alt (Determined by Committee)	World Geography* World History* US History* US Government* Economics* *Modified or Alt (Determined by Committee)		Communication Applications or Professional Communications (Speech)
1.0	English I ESOL I English II ESOL II English III English IV	Algebra I Geometr y Algebra II Math Models w/ Applications Pre-Calculus Adv. Quantitative Reasoning	Integrated Physics & Chemistry Biology Chemistry Physics Advanced Bio Technology Environmental Systems Anatomy & Physiology Forensic Science Advanced Animal Science Advanced Plant & Soil Science Food Science	World Geography World History US History US Government Economics	Spanish I, II, III German I, II, III, IV	
1.1	Pre-AP English I Pre-AP English II	Pre-AP Geometry Pre-AP Algebra II Pre-AP Pre- Calculus	Pre-AP Biology Pre-AP Chemistry Pre-AP Physics	Pre-AP World Geography Pre-AP World History	Pre-AP Languages	
1.2*	AP English III AP English IV	AP Calculus AB AP Statistics AP Computer Science	AP Biology AP Chemistry AP Physics	AP World History AP US History AP US Government & Politics AP Microeconomics	AP Languages	

Dual Credit in the core academic and foreign language courses will be calculated using the same multiplier as AP courses.

Actual Grade	.9 - Other	1.0 – General Education	1.1 – Pre-AP	1.2 – Advanced Placement/Dual Credit
100	90.0	100	110	120
90	81.0	90	99.0	108.0
80	72.0	80	88.0	96.0
70	63.0	70	77.0	84.0
60	54.0	60	66.0	72.0

Gifted and Talented Program for High School Students

In Elgin ISD, the needs of Gifted and Talented students are met in several ways. In the four core subject areas – Language Arts, Mathematics, Science and Social Studies – identified gifted students may choose to participate in Pre-Advanced Placement, Advanced Placement, and Dual Credit courses with gifted instruction being provided by teachers trained in both Gifted Education and Advanced Placement methodologies.

Graduation Ceremony Participation and Diploma Requirements

Per FMH (LOCAL), to be eligible to participate in commencement activities and ceremonies, a student shall meet all state and local graduation requirements, including all applicable state testing. Students are required to pass five State of Texas Assessments of Academic Readiness (STAAR) End-of-Course exams in the areas of:

- Algebra I
- English I (Reading/Writing)
- English II (Reading/Writing)
- Biology
- US History

Early Graduation

Students who anticipate completing high school in fewer than four years must file an application for early graduation with the counselor's office. The application should be completed and filed by October 1 preceding June graduation. Students graduating early may participate in graduation ceremonies only if all graduation requirements are completed prior to the graduation ceremony. Students may not be ranked higher than 3rd in the senior class rank.

A decision about participation in the ceremonies and arrangements for ordering cap and gown must be made prior to the last day of the first semester. It is the responsibility of the student to attend graduation rehearsal, pick up cap and gown, and invitations at the designated times. Students who graduate early and wish to participate in graduation exercises will be required to abide by the same school rules and regulations as other students. Diplomas shall be awarded at the end of the school year.

Automatic Admission to a Texas Public University

Top students in Texas are eligible for automatic admission to any public university in Texas under state admissions policies. Under House Bill 588 passed by the 75th Legislature in 1997, students who are in the top 10% of their graduating class are eligible for automatic admission to any public university in Texas.

However, SB 175 allows some universities to cap the number of students admitted under the top 10% law (i.e. Texas University Austin).

To be eligible for the top 10% automatic admission, a student must:

- Graduate in the top 10% of his/her class at a public or private high school in Texas*;
- Enroll in college no more than two years after graduating from high school; and
- Submit an application and all required documents to a Texas public university for admission before the institution's application deadline. Since deadlines vary, please check with the specific university to verify the application deadline.

****Freshman students entering high school in the 2014-2015 school year and beyond are required to successfully complete Algebra II and an endorsement in order to be eligible for automatic admission into any Texas public university.***

Once a student is admitted, a university may review a student's high school records to determine if the student is prepared for college-level course work. A student who needs additional preparation may be required to take a developmental, enrichment, or orientation course(s) during the semester prior to the first semester of college.

Alternative Credit Opportunities

All credits earned through alternative means, as described below, will be used in determining academic honors. All grades earned, including high school courses taken at the middle school, will be used in class rank except for those courses not included in the ranking system. Grades transferred must be from a four-year accredited high school to be accepted. If a student transfers from an unaccredited school, only grades earned through Elgin ISD high school will be used for determining averages for ranking for academic honors.

Correspondence Courses

Students may use distance learning courses, including correspondence courses, as a means of earning credit in a subject or course. In order to receive credit, a student shall obtain approval from the principal or designee prior to enrollment in the course. Only correspondence courses from UT Austin or Texas Tech University are acceptable. Seniors should complete their work and submit the grade for recording at least thirty days prior to their graduation date in order to be eligible for graduation at the end of the term.

Credit by Exam with Prior Instruction

A student who has previously taken a course or subject, but did not receive credit is permitted to earn credit by passing an exam on the essential knowledge and skills defined for that course or subject. Prior instruction may include incomplete coursework due to a failed course or excessive absences, homeschooling, or coursework by a student transferring from a non-accredited school. The school counselor or principal will determine if the student can take an exam for this purpose. The student must score at least 70 on the exam to receive credit for the course or subject.

Credit by Exam without Prior Instruction

A student will be permitted to take an exam to earn credit for an academic course or subject area for which the student has had no prior instruction or to accelerate to the next grade level. The dates on which exams are scheduled during the 2014-2015 school year will be published in appropriate district publications and on the district's website. If a student plans to take an exam, he/she (or parent) must register with the principal or designee no later than 30 days prior to the scheduled testing date. The district will honor a request by a parent to administer a test on a date other than the published dates. If the district agrees to administer a test other than the one chosen by the district, the student's parent will be responsible for the cost of the exam.

A student in grade 6 or above will earn course credit with a passing score of at least **80** on the exam or a score designated by the state for an exam that has alternate scoring standards. A student may take an exam to earn course credit no more than twice. If a student fails to achieve the designated score on the applicable exam, he/she must enroll in and complete the course. *For further information, see policy EHDC (LOCAL).*

Credits Obtained through College Programs

Elgin ISD provides college-level opportunities for credit. Students must meet eligibility and enrollment requirements at the participating college.

- **Early College High School** – In Elgin ISD, our goal is to increase the numbers of students graduating from high school with some form of higher education. To help achieve this goal of a technical certificate, two-year degree, or four-year degree, we have partnered with Austin Community College (ACC) to become an Early College and Career High School. This comprehensive “College for All” model will benefit our student population by allowing students numerous opportunities to earn up to 60 college hours, an associate's degree, and/or career licensures/certifications at no cost to families. Students need to see their counselors for more information about making plans for the future. We are here to help students achieve their goals and have resources available to assist. *See Appendix E for course offerings.*
- **Dual Credit** – Dual credit is offered to students interested in taking college credit courses while still in high school. EISD has analyzed college courses against the state curriculum and has determined which courses will be accepted as dual credit. Students will receive college credit from the dual credit institution/college upon completion of the course. Most courses will transfer to any Texas public college or university when a student earns a “C” or better. All college-level courses are not “dual credit” courses; however, there are a variety of courses offered in both the academic and career and technology areas. For a junior or senior to receive an advanced measure for the DAP, the grade must be a “B” or better. Students are responsible for completing the college application process and making arrangements to take the on-line entrance exam prior to enrollment in dual credit courses. A student may take a maximum of two courses per semester at no cost to the student. *See Appendix B, C, and D for course offerings and other pertinent information.*

- **Concurrent Enrollment** – Concurrent enrollment courses are college courses students can take at the college for college credit while enrolled in high school. This course will not be posted on the high school transcript nor will the credit count toward state high school graduation credit. Thus, the concurrent course will not be counted in the rank or GPA. A concurrent course can count for an Advanced Measure on the Distinguished Achievement Plan if the student makes an A or B in the course. It is the responsibility of the student to submit the college grade documentation to the high school counselor upon completion of the course.
- **The Advanced Technical Credit (ATC) Program** – The ATC Program is a statewide articulation program which provides a method for students who continue technical programs of study in a public 2-year college after graduation to receive banked (in escrow) college credit while earning high school credit for courses that are part of an Associate of Applied Science (AAS) degree or certificate plan. “In escrow” means the college credit will not be shown on a college transcript the semester in which the high school course is taken. After graduation and upon acceptance to a college, it is the student’s responsibility to check with his/her intended college as to the steps he/she must take to ensure documentation of any ATC/statewide articulated courses that the college chooses to accept for their documentation of earned college credit. ATC/statewide articulated courses can count for an advanced measure on the Distinguished Achievement Plan if the course is taken during a student’s junior or senior year and the student makes an A or B in the course. *Please refer to Appendix F for a listing of the ATC/statewide articulated courses.*
- **Local Articulation Options (TECH PREP)** – Locally articulated courses provide high school students additional options for award of college credit from a 2-year college by taking high school courses that are part of an Associate of Applied Sciences (AAS) degree plan. Each course has its own locally developed articulation agreement which will determine how and when the college credit will be shown on the 2-year college’s transcript. It is the student’s responsibility to check with his/her intended college as to the steps he/she must take to ensure documentation of any locally articulated courses that the college chooses to accept for credit. This will often require the student to request a college transcript be sent from the 2-year college, for example Austin Community College (ACC), to their intended college. Locally articulated courses can count for an advanced measure on the Distinguished Achievement Plan if the course is taken for a full year in high school with an earned grade of 85 or higher. *Please refer to Appendix G for a listing of the locally articulated courses.*

Summer School/Semester

Students may attend an accredited summer school, provided that approval of the principal or counselor is obtained before enrolling. Summer school work can be used for the purpose of making up work that has been failed during the regular term, strengthening areas where a student is weak, giving a student an opportunity to avail himself/herself of courses that cannot be taken during the regular term because of scheduling conflicts, and obtaining credits for acceleration purposes.

Credit Recovery

Students may gain credit through computer-assisted instruction for courses previously failed. Not all courses are eligible for recovery. Students should contact their school counselor for information.

Transcript of Credits

Many schools and colleges require students to submit a copy of their high school record before entering. If students plan to move to another school district, students should request the registrar send the transcript to the new school at the time of withdrawal. If a student plans to attend college, the transcript should be requested early enough for receipt by the required college deadline. Transcripts will be sent only by request. Students under the age of 18, who want their test scores sent to a college, must have a parent signature of approval.

NCAA Guidelines

All high school athletes wishing to compete in college athletics must register with the Initial Eligibility Center. Information about eligibility can be found in the *Guide for the College-Bound Student-Athlete* at www.eligibilitycenter.com. Students who are interested in attending college on athletic scholarships should carefully select high school courses that qualify under the National Collegiate Athletic Association guidelines. After you have registered and paid appropriate fees, please submit paperwork to the high school registrar.

Course Availability

Students and parents are reminded that course selections are determined by student choice, need and teacher availability. Schedule changes can have a significant impact on the calculation of the six weeks average. Schedule changes must be approved by the administrator or administrative designee. State law mandates 90% attendance in each class each semester. Therefore, schedule changes will be considered for the following reasons only:

- The student is a senior not scheduled in a course needed for graduation;
- The student has already earned credit for a course in which he/she is currently scheduled;
- The student does not have the prerequisite(s) for a class listed on his/her schedule;
- The student has previously failed this course under the same teacher;
- The student has been dismissed from a program for which approval must be granted for placement;
- The student does not have a full schedule;
- There is a data entry error (i.e., no lunch, class listed twice, free period);
- Course-level change; or
- Other as approved by building administrator or designee.

Course Selection

The school cannot take the total responsibility for the proper choice of subjects for either students' graduation or college entrance. Students should carefully check the local graduation requirements and the catalog of the college of choice before choosing courses. A useful reference site in this regard is www.collegeboard.com. Under no circumstances should students depend on any high school official to choose the correct courses for their future. The counselors, the administration, or other faculty members will be glad to assist students at any time, but students and parents must make the final choice. The parent/guardian must approve changes. The administrator or administrative designee must approve schedule changes. Students graduating on the Recommended Plan are eligible to receive additional State financial aid. The Texas Grant and Exemption Program is an award of varying amounts to assist certain students who graduate on the recommended high school program with college expenses. For more information on the TX Grant and the TX B-on-Time Loan, the student should review the website (www.collegefortexans.com).

Graduation Plans for Students Entering High School Prior to the 2014-15 School Year

Current high school students who entered high school prior to the 2014-15 school year may remain on the Recommended or Distinguished plan or they may choose to move to the new Foundation with Endorsement High School Program or Distinguished Level of Achievement. See Comparison Chart on page 14.

Distinguished Achievement Program

The Distinguished Achievement Program (DAP) recognizes and/or requires students to:

- Demonstrate levels of performance equivalent to college students;
- Demonstrate work done at a professional level in the arts, sciences, business, industry, or community service;
- Complete the graduation requirements for the Distinguished Achievement Graduation Plan; and
- Complete a total of four advanced measures.

Advanced Measures

1. Original research project which is:

- Judged by a panel of professionals in the field that is the focus of the project; or
- Conducted under the direction of a mentor(s) and reported to an appropriate audience; and
- Related to the required curriculum set forth in §74.1 of the Texas Essential Knowledge and Skills (TEKS).
(*May not be used for more than two of the four measures*)

2. Test data where a student receives:

- A score of three or above on a College Advanced Placement examination;
- A score of four or higher on an International Baccalaureate examination; or
- A score on the Preliminary Scholastic Assessment Test (PSAT) that qualifies a student for recognition as a Commended Scholar or higher by the National Merit Scholarship Corporation, as part of the National Hispanic Scholar Program of the College Board, or as part of the National Achievement Scholarship Program for Outstanding Negro Students. The PSAT score may count as only one advanced measure regardless of the number of honors received.
(*AP/IB scores may be used for all four measures. A student who has not completed four Advanced Measures by the Graduation Ceremony will not be recognized as a Distinguished Achievement graduate at the Graduation Ceremony; however, if test scores meeting the requirements listed above are received the summer after the graduation ceremony, the student's transcript will be changed at that time to designate this newly earned Distinguished Achievement status.*)

3. College coursework/credit through the following means:

- Concurrent enrollment in a college course and a grade of 3.0 or higher;
- Approved dual credit courses listed in *Appendix D* where a student earns a grade of 80 or higher;
- Advanced Technical Credit (ATC) courses called State Articulated Courses offered by EISD as listed in *Appendix F*. Student must be a junior or senior and earn a grade of 80 or higher; and/or
- Any Technical Preparation (Tech Prep) coherent sequence of courses which are called Locally Articulated Courses offered by EISD as listed in *Appendix G*. Students must earn an 80 or higher and/or receive specific certification or professional licensure. (*May be used for all four measures*)

Graduation Plan Overview for Students Entering High School in 2014-15 and Beyond

House Bill 5 (HB 5), passed by the 83rd Texas Legislature and signed by the governor, provides for a new set of graduation plans for Texas students. These graduation plans consist of a Foundation Program for every Texas student and five endorsements from which students may choose, depending on their interests. Once chosen, students will complete each of these endorsements with four mathematics, four science, four English Language Arts, and three social studies credits. Students are also required to complete two foreign language credits which may be substituted with two credits in computer programming language.

Students entering 9th grade beginning in 2014-2015 will choose from one of the following endorsements:

- STEM (i.e., Engineering, Information Technology, and Computer Science)
- Business and Industry (i.e., Agriculture, Horticulture, and Business Management)
- Arts and Humanities (i.e., Visual Arts, Performing Arts, and Journalism)
- Public Services (i.e., Education and Training, Human Service, and Law and Public Safety)
- Multidisciplinary Studies (Variety of Options)

Students may change their endorsement at any time prior to graduation. Information regarding endorsements, programs of study, and course sequences can be found in *Appendix H*. **Freshman students entering high school in the 2014-15 school year and beyond are required to successfully complete Algebra II and an endorsement in order to be eligible for automatic admission into any Texas public university.**

Side-by-Side Comparison of Current Graduation Requirements and HB 5

Discipline	Foundation with Endorsement and Distinguished Level of Achievement (Entering 9 th grade in 2014-15)	Recommended High School Program (Prior to Students Entering High School 2014-15)	Distinguished Achievement Program (Prior to Students Entering High School 2014-15)
	English Language Arts	Four credits: <ul style="list-style-type: none"> • English I • English II • English III • An advanced English course 	Four credits: <ul style="list-style-type: none"> • English I • English II • English III • English IV
Mathematics	Three credits: <ul style="list-style-type: none"> • Algebra I • Geometry • An advanced math course 	Four credits: <ul style="list-style-type: none"> • Algebra I • Algebra II • Geometry • An additional math credit 	Four credits: <ul style="list-style-type: none"> • Algebra I • Algebra II • Geometry • An additional math credit
Science	Three credits: <ul style="list-style-type: none"> • Biology • IPC or an advanced science course • Any advanced science course 	Four credits: <ul style="list-style-type: none"> • Biology • Chemistry • Physics • An additional science credit 	Four credits: <ul style="list-style-type: none"> • Biology • Chemistry • Physics • An additional science credit
Social Studies	Three credits <ul style="list-style-type: none"> • World History or World Geography or combined W. History/W. Geography • U.S. History • U.S. Government (one-half credit) • Economics (one-half credit) 	Four credits: <ul style="list-style-type: none"> • World History Studies (one credit) • World Geography Studies (one credit) • U.S. History Studies Since 1877 (one credit) • U.S. Government (one-half credit) • Economics (one-half credit) 	Four credits: <ul style="list-style-type: none"> • World History Studies (one credit) • World Geography Studies (one credit) • U.S. History Studies Since 1877 (one credit) • U.S. Government (one-half credit) • Economics (one-half credit)
Physical Education	One credit	One credit	One credit
Languages Other Than English	Two credits in the same language including computer programming	Two credits in the same language	Three credits in the same language
Fine Arts	One credit	One credit	One credit
Speech	One-half credit from either of the following (local requirement): <ul style="list-style-type: none"> • Communication Applications • Professional Communications (CTE) 	One-half credit from either of the following: <ul style="list-style-type: none"> • Communication Applications • Professional Communications (CTE) 	One-half credit from either of the following: <ul style="list-style-type: none"> • Communication Applications • Professional Communications (CTE)
Electives	Five credits	Five and one-half credits	Four and one-half credits
Foundation with Endorsement	A student may earn a Foundation Program with Endorsement by successfully completing the Foundation Program, curriculum requirements for an endorsement*, and: <ul style="list-style-type: none"> • one additional math (4 total) • one additional science (4 total) • two additional electives (7 total) <p>* Endorsement areas include: STEM, Business & Industry, Arts & Humanities, Public Service, Multidisciplinary Studies</p>		
Total Credits	26	26	26
Distinguished Level of Achievement I	A student may earn a Distinguished Level of Achievement by successfully completing the Foundation Program with Endorsement course requirements including Algebra II.		A student may graduate under the Distinguished Achievement Plan by completing all DAP course requirements and four advanced measures.
Performance Acknowledgements	<ul style="list-style-type: none"> □ Outstanding performance: <ul style="list-style-type: none"> • in a dual credit course • bilingualism and biliteracy • on an AP test or IB exam • on the PSAT, the ACT-Plan, the SAT, or the ACT □ For earning a nationally or internationally recognized business or industry certification or license 		

Plans for Students entering 9th Grade in 2014-15 and Beyond

(on diploma or transcript)

For outstanding performance:

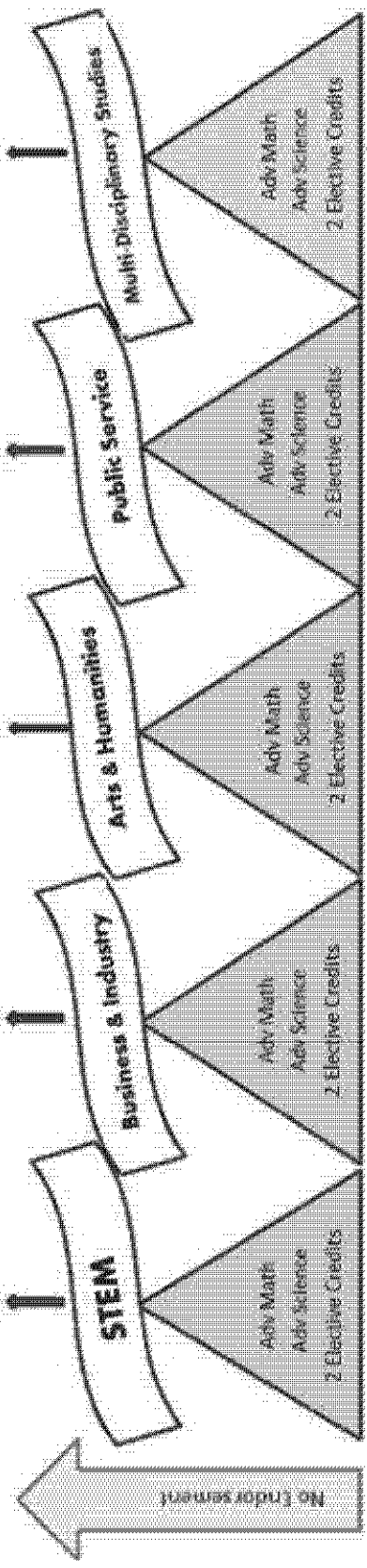
- * in a dual credit course
- * in bilingualism and literacy
- * on a college AP test or International Baccalaureate exam
- * on the PSAT, PLAN, SAT or ACT

> For earning a nationally or internationally recognized business or industry certification or license

Distinguished Level of Achievement Graduate
(26 credits)
 Eligible for Top 10% College Admission

Algebra 2 as Advanced Math

Foundation Program with Endorsements *(26 credits)*



Foundation Program
(22 credits)

- 4 English (English I-3 & 1 Adv)
- 3 Math (Alg I, Geo, & 1 Adv)
- 3 Science (Bio, IPC or Adv, & 1 Adv)
- 3 SS (US H, Eq/Govt, & W/G or W/H)
- 2 LOIE
- 1 FA
- 1 PE
- 5 Electives

The student's parent must file a written request with the school counselor for the student to graduate without an endorsement.

**2015-2016
High School
Course Descriptions**

English Language Arts

English I – 8111

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of the English language. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read extensively from multiple literary genres and informational texts. (03220100)

Pre-AP English I – 8112

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This course is designed for students with high academic interest and a strong work ethic in English Language Arts. The Pre-AP class serves as the foundation for the Advanced Placement Program, specifically for AP English III Language and Composition and AP English IV Literature and Composition. Emphasis is placed on developing students' skills in critical, analytical and creative thinking, close reading, grammar, and composition. Students will read extensively in multiple genres from diverse time periods and cultures. Summer reading is required. (03220100)

English II – 8121

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *English I*

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of English. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read and write extensively from multiple genres, including literary and informational texts with an emphasis on world literature. (03220200)

Pre-AP English II – 8122

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *English I*

This course is designed for students with high academic interest and a strong work ethic in English Language Arts. The Pre-AP class serves as the foundation for the Advanced Placement Program, specifically for AP English III Language and Composition and AP English IV Literature and Composition. Emphasis is placed on developing students' skills in critical, analytical and creative thinking, grammar, and composition. Students will read extensively in multiple genres from diverse time periods and cultures. (03220200)

English III – 8131

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *English II*

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of English. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read extensively from multiple genres with an emphasis on American literature. (03220300)

AP English III

Language and Composition – 8132

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *English II*

In this course, critical and creative thinking skills are developed through the reading and critical analysis of literature and language, as well as, required reading, discussion, essays, and exams. Students are required to use rhetorical analysis, critical evaluation, and advanced writing techniques. Students will read extensively in multiple genres from diverse time periods and cultures, with an emphasis on American writers. Summer reading is required. *Students are required to take the AP Language and Composition exam at the conclusion of the course which may lead to college credit.* (A3220100)

Dual Credit English III – 8191 (ENGL 1301/1302)

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Complete ACC requirements, including TSI compliance, by deadlines*

This college-level course is an in-depth writing and literature course which requires extensive essays, discussion, required reading, and exams. Critical and creative thinking skills are developed through the reading and critical analysis of literature and language. (03220300)

English IV – 8141

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *English III*

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of English. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read extensively on from multiple genres with an emphasis on British literature. (03220400)

AP English IV Literature and Composition – 8142

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *English III*

This college-level **course** serves as a cursory survey of British literature. Critical and creative thinking skills are developed through the reading and in-depth analysis of various genres of literature through required readings, discussions, essays, and exams. Students will examine literary works and analyze literary elements in relation to the contemporary experience and the times in which they were written. Students will spend more time writing advanced essays. Summer reading is required. *Students are required to take the AP Literature and Composition exam at the conclusion of the course which may lead to college credit.* (A3220200)

Dual Credit English IV–8196 (ENGL 2322)

Credit: 1, Semester

Grade: 9-12

Prerequisite: *Complete ACC requirements, including TSI compliance, by deadlines*

Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read extensively from multiple genres with an emphasis on British literature. (03220400)

English I for Speakers of Other Languages (ESOL I) – 8118

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Students with Limited English Proficiency*

This course covers all the TEKS for English I, and uses ESL strategies designed for beginning ESOL students. Students will engage in structured conversation for oral language development and in explicit instruction for mastery of the objectives. Strategic use of the student's first language will facilitate academic development in English. Course counts as English I credit and student placement is determined by the Language Proficiency Assessment Committee. (03200600)

English II for Speakers of Other Languages (ESOL II) – 8128

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *Students with Limited English Proficiency*

This course covers all the TEKS for English II, and uses ESL strategies designed for beginning and intermediate ESOL students. Students will engage in structured conversation for oral language development and explicit instruction for mastery of the objectives. Strategic use of the student's first language will facilitate academic development in English. Course counts as English II credit and student placement is determined by the Language Proficiency Assessment Committee. (03200700)

Practical Writing Skills – 8171

Credit: ½, semester or 1, Full Year **Grade:** 9-12

Prerequisite: *None*

This course provides additional writing support for students, 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. Students are expected to understand the recursive nature of reading and writing. Evaluation of students' own writing as well as the writing of others ensures that students completing this course are able to analyze and evaluate their writing. (03221300)

Creative Writing – 8172

Credit: ½, semester or 1, Full Year **Grade:** 9-12

Prerequisite: *None*

This course is a rigorous composition course that requires students to demonstrate strong writing skills. The course will include student compositions such as fiction, short stories, poetry and drama. (03221200)

Research and Technical Writing – 8173

Credit: 1/2 , semester or 1, Full Year **Grade:** 9-12

Prerequisite: *None*

The study of technical writing allows students to develop skills necessary for writing persuasive and informative texts. This rigorous composition course asks high school students to skillfully research a topic or a variety of topics and present that information through a variety of media. (03221100)

Professional Communications (Speech) – 8161

Credit: ½, Semester **Grade:** 9-12

Prerequisite: 8161- *None*

This course is designed to enhance and refine communication skills by learning and practicing verbal, non-verbal and listening skills and interpersonal, group and professional situations. It is designed to prepare students for college and job interviews and for work-related dialogues between customers, employers and fellow employees. Students who qualify for dual credit can earn college credit hours taking this course. This course will satisfy the district speech requirement. (13009900)

Dual Credit Professional Communications – 8195 (SPCH 1311)

Credit: ½, Semester **Grade:** 9-12

Prerequisite: 8195- *Complete ACC requirements, including TSI compliance, by deadlines*

This course is designed to enhance and refine communication skills by learning and practicing verbal, non-verbal and listening skills and interpersonal, group and professional situations. It is designed to prepare students for college and job interviews and for work-related dialogues between customers, employers and fellow employees. Students who qualify for dual credit can earn college credit hours taking this course. This course will satisfy the district speech requirement. (13009900)

Dual Credit Public Speaking – 8197 (SPCH 1315)

Credit: 1, Full Year **Grade:** 9-12

Prerequisite: *Complete ACC requirements, including TSI compliance, by deadline*

In this course, students will learn the concepts and skills related to preparing and presenting public messages and to analyzing and evaluating the messages of others. Within this process, students will gain skills in reading, writing, speaking, listening, and thinking and will examine areas such as invention, organization, style, memory, and delivery. (03240900)

Reading I – (8117), II – 8127, III – 8137

Credit: 1, Full Year **Grade:** 9-12

This course is for students with severe reading difficulties identified by formal assessments. Students use a flexible range of metacognitive reading skills in both assigned and independent reading to understand an author's message. The student is expected to reflect on understanding to monitor comprehension and make complex inferences about text and use textual evidence to support understanding. (03270700) (03270800) (03270900)

College Preparation ELA Course – 8097**Credit: 1, Full Year****Grade: 12****Prerequisite:** *Senior not meeting college readiness indicators*

This class helps students get ready for college level coursework in reading and writing and prepares them for the Texas Success Initiative (TSI) exam, which Texas public colleges and universities use to assess college readiness. Incoming seniors who do not meet college ready benchmarks for Reading on EOC, PSAT, and/or SAT may be placed in this course. (CP110100)

SAT Prep –College Readiness/Study Skills – 8263**Credit: ½, Semester****Grade: 9-12****Prerequisite:** *None*

Students acquire techniques for learning from texts, including studying word meanings, identifying and relating key ideas, drawing and supporting inferences, and reviewing study strategies. In all cases, interpretations and understandings will be presented through varying forms, including through use of available technology. Students accomplish many of the objectives through wide reading as well as use of content texts in preparation for post-secondary schooling. In addition, calculator applications will be taught to quicken the speed of completing each problem. Students will take this course on opposite days of dual credit courses. (03270100)

Journalism (Yearbook I) – 8072**Credit: ½, Semester****Grade: 9-12****Prerequisite:** *None*

Students enrolled in this course are expected to plan, draft, and complete written compositions on a regular basis, carefully examining their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English. In Journalism, students are expected to write in a variety of forms and for a variety of audiences and purposes. Students will become analytical consumers of media and technology to enhance their communication skills. Published work of professional journalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students enrolled in Journalism will learn journalistic traditions, research self-selected topics, write journalistic texts, and learn the principles of publishing. (03230100)

Advanced Journalism (Yearbook Production) I-8073, II-8074, III-8075**Credit: ½, Semester****Grade: 9-12****Prerequisite:** *Journalism I*

Students enrolled in Advanced Journalism communicate in a variety of forms such as print, digital, or online media for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. In Advanced Journalism: Yearbook I, II, III/Newspaper I, II, III/Literary Magazine, students are expected to become analytical consumers of media and technology to enhance their communication skills. In addition, students will apply journalistic ethics and standards. Published works of professional journalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students enrolled in Advanced Journalism: Yearbook I, II, III/Newspaper I, II, III/Literary Magazine will refine and enhance their journalistic skills, research self-selected topics, and plan, organize, and prepare a project(s) in one or more forms of media. (03230110) (03230120) (03230130)

Mathematics

Algebra I – 8211

Credit: 1, Full Year

Grade: 9

Prerequisite: *8th grade Math*

Algebra I will expand students' understanding of number, operation, and quantitative reasoning, linear functions, equations and inequalities, statistical relationships, quadratic functions and equations, exponential functions and equations, and number and algebraic methods. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. (03100500)

Geometry – 8221

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Algebra I*

Geometry students develop deductive reasoning by using terms, postulates, definitions, and theorems. The course provides a mathematical model to the physical world and applies algebraic concepts to geometric situations with a more precise focus on terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. (03100700)

Pre-AP Geometry – 8222

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Algebra I*

Pre-AP Geometry is designed for students with high academic interest and a strong work ethic. In addition to the prescribed curriculum for Geometry, this course is designed to address high-level thinking and problem solving skills. Emphasis is placed on formal proofs using deductive and inductive reasoning. Students who wish to take advanced placement math exams should consider this course. (03100700)

Algebra II – 8231

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Algebra I*

Algebra II students extend basic algebraic skills developed in Algebra I into new situations. This course broadens student knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods and apply them in both mathematical and real-world problems. (03100600)

Pre-AP Algebra II – 8232

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Algebra I*

Pre-AP Algebra II is designed for students with high academic interest and a strong work ethic. In addition to the prescribed curriculum for Algebra II, this course will address higher-level thinking and problem solving skills. Also included are proof and theory of algebraic statements and analyzing and solving more challenging problems. Graphing calculators will be utilized extensively. This course prepares students for upper level math classes, to include: Statistics, Pre-Calculus, and Calculus. (03100600)

Advanced Quantitative Reasoning – 8261

Credit: 1, Full Year

Grade: 9 - 12

Prerequisite: *Algebra I and Geometry*

Advanced Quantitative Reasoning is a math course that builds on concepts from Algebra I, Geometry and Algebra II. Students expand their understanding through further mathematical experiences including the analysis of information using statistical methods and probability, modeling change and mathematical relationships, and spatial and geometric modeling for mathematical reasoning. Students learn to become critical consumers of real-world quantitative data, knowledgeable problem solvers who use logical reasoning and mathematical thinkers who can use their quantitative skills to solve authentic problems. (03102510)

Pre-Calculus – 8241

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Algebra I, II, and Geometry*

This course covers topics which traditionally follow algebra and geometry including polynomials, exponential, logarithmic and circular functions, and their combinations. Students use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Students also use functions as well as symbolic reasoning to represent and connect ideas in geometry, probability, statistics, trigonometry, and calculus and to model physical situations. (03101100)

Pre-AP Pre-Calculus – 8242

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Algebra II*

This course is designed for students with high academic interest and a strong work ethic and covers topics which traditionally follow Algebra and Geometry including polynomials, exponential, logarithmic and circular functions, and their combinations. Students use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Students also use functions as well as symbolic reasoning to represent and connect ideas in geometry, probability, statistics, trigonometry, and calculus and to model physical situations. Emphasis will be placed on skills necessary to be successful in AP Calculus. (03101100)

AP Calculus – 8243

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Pre-Calculus*

This college level course prepares students to take the AP Calculus AB Exam for possible college credit. It is equivalent to the first semester of college Calculus, and includes practical applications of Calculus. Topics include limits and continuity of functions; derivatives and their applications; definite integrals and their applications; elementary techniques and applications of anti-differentiation, including differential equations and slope fields. Students who plan to major in science, engineering or business should consider taking this course. *Students are required to take the Advanced Placement Calculus Exam at the conclusion of the course.* (A3100101)

AP Computer Science – 8046

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *Computer Programming recommended*

This college level course prepares students to take the AP Computer Science exam for possible college credit. AP Computer Science emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. It is meant to be the equivalent of a first semester college-level course in computer science. It also includes the study of data structures, design, and abstraction. This course is designed for students who are interested in majoring in Computer Science, Science, Management Information System, or Engineering. This course can count as a fourth math credit. *Students are required to take the Advanced Placement Computer Science Exam at the conclusion of the course.* (A3580100)

AP Statistics – 8262

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Algebra II and Geometry recommended*

This college level course prepares students to take the AP Statistics Exam for possible college credit. It is equivalent to a one-semester introductory college course in statistics. Students should have a solid foundation in algebra prior to enrollment. This course will introduce students to four major conceptual themes: observing and exploring data; planning a statistically valid investigation; anticipating patterns and using probability and simulations for predicting outcomes; and confirming or rejecting models through statistical inference. Technology is an integral part of the course. Graphing calculators and computers are the primary tools for data analysis. *Students are required to take the Advanced Placement Statistics Exam at the conclusion of the course.* (A3100200)

Mathematical Models with Applications – 8251

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Algebra I*

Students continue to build on algebra I and geometry concepts as they expand their understanding through other mathematical experiences. Students solve real-life applied problems involving money, data, chance, patterns, music, design, and science. Several units focus on personal income, credit, and financial planning. **For recommended and distinguished degree plans, this course will count as a fourth math credit ONLY if taken PRIOR to Algebra II.** (03102400)

College Preparation Math Course – 8098

Credit: 1, Full Year

Grade: 12

Prerequisite: *Students not meeting college readiness indicators will be placed in this class as a senior.*

This class helps student get ready for college level coursework in math and prepares them for the Texas Success Initiative (TSI) exam, which Texas public colleges and universities use to assess college readiness. Incoming seniors who do not meet college ready benchmarks for Reading on EOC, PSAT and/or SAT may be placed in this course. (85000CPM)

Engineering Mathematics – 8271

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *Algebra II*

Engineering Mathematics is a course where students solve and model robotic design problems. Students use a variety of mathematical methods and models to represent and analyze problems involving data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming. **This course can count as a third or fourth math credit.** (13036700)

Mathematical Applications in Agriculture, Food, and Natural Resources - 8281

Credit: 1, Full Year

Grade: 9-11

Prerequisite: *a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources cluster.*

To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts. **This course may count as a third math credit only.** (13001000)

Science

Biology – 8311

Credit: 1, Full Year

Grade: 9-11

Prerequisite: *None*

In this course, student study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment. (03010200)

Pre-AP Biology – 8312

Credit: 1, Full Year

Grade: 9-11

Prerequisite: *None*

In this course, students conduct laboratory and field investigations throughout the year. Many of the concepts are the same as those in Biology, except the presentation is more accelerated and in more detail. (03010200)

AP Biology – 8341

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Biology and Chemistry recommended*

This college level course prepares students to take the AP Biology exam for possible college credit.

Laboratory techniques are developed to further students' ability to pursue a career in a biologically-related field. Students will conduct laboratory investigations of chemical reactions that occur in organisms. Concepts of molecular and cellular biology, as well as the biology of organisms and population will be investigated. ***Students are required to take the Advanced Placement Biology Exam at the conclusion of the course.*** (A3010200)

Integrated Physics and Chemistry (IPC) – 8361

Credit: 1, Full Year

Grade: 9-10

Prerequisite: *None*

Students conduct laboratory and field investigations, use scientific methods during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter. (03060201)

Chemistry – 8321

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *One high school science unit and Algebra I*

In this course, students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives. (03040000)

Pre-AP Chemistry – 8322

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *One high school science unit and Algebra I*

In this course, students conduct laboratory and field investigations throughout the year. Many of the concepts are the same as those in Chemistry, except the presentation is more accelerated and in more detail. Students should expect a faster class pace, more in-depth classroom instruction, increased amount of reading and overall greater academic expectations of assignments and time management. (03040000)

Physics – 8331

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Algebra I*

In this course, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills. (03050000)

Pre-AP Physics – 8332

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Algebra I*

Pre-Advanced Placement (Pre-AP) Physics is an advanced course recommended for students with a strong interest in science and strong work ethic. In Pre-AP Physics, students conduct laboratory and field investigations throughout the year. Many of the concepts are the same as those in Physics, except the presentation is more accelerated and in more detail. Students should expect a faster paced class, more in-depth classroom instruction, increased amount of reading and overall greater academic expectations of assignments and time management. (03050000)

AP Physics 1 (Algebra based) – 8333

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Algebra I & II, and Geometry recommended*

This course is an algebra-based, introductory college level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. *Students are required to take the Advanced Placement Exam at the conclusion of the course.* (A3050003)

Advanced Animal Science – 8002

Credit: 1, Full Year

Grade: 12

Prerequisite: *Agriculture, Food & Natural Resources recommended*

This course 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 lab experiences. Students will learn about animal health and services with classroom and hands-on experiences, including shadowing at various local businesses. Students will travel to MD Anderson Research Center, Elgin Veterinary Hospital, and Elgin Breeding Service, to learn about various techniques in veterinarian medicine. Upon completion of this course students will have the opportunity to take the Texas Veterinary Medical Association Vet Tech Assistance Certification Exam. **This course can count as a third or fourth science credit.** (13000700)

Biotechnology – 8018

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Concepts of Engineering*

This course provides an overview of biotechnology, bioengineering, and related fields. Topics include genetics, cell structure, proteins, nucleic acids, and the impact of immunological events in biotechnology. Students further study the increasingly important agricultural, environmental, economic, and political roles of bioenergy and biological remediation; the roles of nanoscience and nanotechnology in biotechnology medical research; and future trends in biological science and biotechnology. (13036300)

Advanced Biotechnology – 8019

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *Biology and Chemistry recommended*

This is a lab-based course designed to introduce the basics of molecular biology in this rapidly developing industry. Instruction includes technical information and skill development in cell biology, Mendelian genetics, recombinant DNA techniques, plant and animal biotechnology, and career opportunities. While taking this course, students will improve their ability to perform certain advanced skills in cellular biology techniques, nucleic acid techniques, protein extraction/separation techniques, and microbiology. This course can count as a third or fourth science credit. (13036400)

Advanced Plant and Soil Science – 8003

Credit: 1, Full Year

Grade: 12

Prerequisite: *Agriculture, Food and Natural Resources recommended*

This course prepares students to produce and grow greenhouse and nursery plants, and maintain plant growth, and to make new plants from others. Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. This course is designed to involve students with horticulture (plant) sciences with the emphasis on hands on skills while teaching the students career opportunities using plants in Horticulture. During the majority of the class time, students will enjoy caring for and experimenting with plants in the greenhouse. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. Career and leadership skills in the Horticulture industry are also included. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting. **This course can count as a third or fourth science credit.** (13002100)

Anatomy and Physiology of Human Systems – 8342

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *3 science credits recommended*

This course is an advanced course recommended for students with a strong interest in science and good study skills. In this course, students conduct laboratory investigations and fieldwork. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces; maintenance of homeostasis; electrical interactions; transport systems; and energy systems. **This course can count as a third or fourth science credit.** (13020600)

Dual Credit Engineering Design and Problem Solving (Engineer Your World) – 8069

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *1 high school science and Algebra I recommended*

This is a project-based course designed to introduce the design process in engineering. The main areas of study will be focused on discovering design, data acquisition and analysis, reverse engineering, aerial imaging, and robotics. There are two subunits over chemical engineering and electrical engineering as well. While taking this course students will improve their interpersonal skills as they will be part of a team for each project and responsible for the success of their group. **This course can count as a third or fourth science credit.** (13037300)

Food Science – 8057

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *Three units of science*

This 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. Instruction is given concerning the physical, microbiological, and chemical principles that affect the food we eat. **This course can count as a third or fourth science credit.** (13023000)

Forensic Science – 8371

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *Biology & Chemistry required; Principles of Law, Public Safety, Corrections & Security, and Law Enforcement I recommended*

Forensic science is a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminalist behavior. Students will learn basic terminology and investigative procedures related to crime scene, question building, interviewing, criminal behavior characteristics, truth detection methodology, and scientific procedures used to solve crimes. Students will have the opportunity to collect and analyze evidence through case studies and mock crime scenes. Lab activities will be based on crime scene scenarios and analyzing fingerprints, ballistics, and blood spatter. Students will learn about the history, legal aspects of forensic science, and career options available in the forensic field. **This course can count as a third or fourth science credit.** (13029500)

Social Studies

World Geography Studies – 8411

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This course requires students to examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography and describe the influence of geography on events of the past and present with emphasis on contemporary issues. Students are also required to analyze how location affects economic activities in different economic system, identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies, compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment, and use problem-solving and decision-making skills to ask and answer geographic questions. (03320100)

Pre-AP World Geography Studies – 8411

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This course will cover the same material as World Geography, but in a more challenging and faster paced environment. Student will have additional assignments and activities. (03320100)

AP Human Geography – 8462

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *World Geography recommended*

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. ***Students are required to take the Advanced Placement Human Geography exam at the conclusion of the course.*** (A3360100)

World History – 8421

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This course is a survey of the history of humankind. Due to the expanse of world history and the time limitations of the school year, the scope of this course will focus on essential concepts and skills that can be applied to various eras, events, and people. Students examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems. Students analyze the process by which constitutional governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies, and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence. (03340400)

AP World History – 8427

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *None*

This course requires an emphasis of significant people, events, and issues from earliest times to present in civilizations around the world to understand evolving processes, and human contact and interactions. Recognizing and understanding cause and effect relationships, multiple causation, trends, themes and interactions, and importance of both change and continuity in shaping human events will be stressed. ***Students are required to take the Advanced Placement World History Studies exam at the conclusion of the course.***

U.S. History since Reconstruction – 8431

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

The course content is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights. Students examine the impact of geographic factors on major events and eras and analyze their causes and effects. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students describe the relationship between the arts and popular culture and the times during which they were created. Students analyze the impact of technological innovations on American life. Students use critical thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context. (03340100)

AP U.S. History – 8432

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This college level course prepares students to take the AP U.S. History exam for possible college credit. The class surveys the period from the first European explorations to the present stressing political institutions, behavior and public policy, social and economic change, diplomacy and international relations, and cultural and intellectual developments. Recognizing and understanding cause and effect relationships, multiple causation, trends, themes and interactions, and importance of both change and continuity in shaping human events will be stressed. Analytical essays and research papers will be required. ***Students are required to take the Advanced Placement U.S. History exam at the conclusion of the course.*** (A3340100)

Dual Credit Special Topics Social Studies– 8498 (HIST 1301)

Credit: 1/2, Semester

Grade: 9-12

Prerequisite: *Complete ACC requirements, including TSI compliance, by deadlines*

In this course, students will study the history of the United States to 1877. Students are expected to take this course and Dual Credit U.S. History 8491 (03380002)

Dual Credit U.S. History – 8491 (HIST 1302)

Credit: 1, Semester

Grade: 9-12

Prerequisite: *Complete ACC requirements, including TSI compliance, by deadlines*

The course content is based on the founding documents of the U.S. government, which provides a framework for its heritage. Historical content focuses on the political, economic and social issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements including civil rights. Students use critical thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context. Students who qualify for dual credit can earn college credit hours taking this course. This course replaces U.S. History 8431, which is required for graduation. (03340100)

U.S. Government – 8441

Credit: ½, Semester

Grade: 9-12

Prerequisite: **8441** – *None*

Focus is on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. This course is the culmination of the civic and governmental content and concepts studied from Kindergarten through required secondary courses. Students learn major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems. Students identify the role of government in the U.S. free enterprise system and examine the strategic importance of places to the United States. (03330100)

Dual Credit U.S. Government – 8493 (GOVT 2305)**Credit:** ½, Semester**Grade:** 9-12**Prerequisite:** *Complete ACC requirements, including TSI compliance, by deadlines*

Focus is on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. Students learn major political ideas and forms of government in history. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems. Students who qualify for dual credit can earn college credit hours taking this course. (03330100)

Dual Credit-Special Topics (Texas State and Local Government) – 8499 (GOVT 2306)**Credit:** ½, Semester**Grade:** 9-12**Prerequisite:** *Complete ACC requirements, including TSI compliance, by deadlines*

This course is an introduction to Texas state and local government. This course includes a framework for understanding Texas government and politics and the constitutional basis for the processes, the institutions, and the policies of Texas government and politics. (03380022)

AP U.S. Government and Politics – 8442**Credit:** ½, Semester**Grade:** 9-12**Prerequisite:** *None*

This course involves the study of democratic ideas, balance of powers, and tension between the practical and ideal in national policymaking. Students analyze and discuss the importance of various constitutional principles, rights and procedures, institutions, and political processes that impact us as citizens. *Students are required to take the Advanced Placement U.S. Government and Politics exam at the conclusion of the course.* (A3330100)

Economics – 8541**Credit:** ½, Semester**Grade:** 9-12**Prerequisite:** 8541 – *None*

Economics focuses on the Free Enterprise System and its benefits including principles of production, consumption, and distribution of goods and services. The student will research the problem of scarcity in the United States and a comparison with those in other countries around the world. Students apply critical thinking skills to create economic models and evaluate economic patterns. Students who qualify for dual credit can earn college hours taking this course. (03310300)

Dual Credit Economics – 8591 (ECON 2301)**Credit:** ½, Semester**Grade:** 9-12**Prerequisite:** *Complete ACC requirements, including TSI compliance, by deadlines*

Economics focuses on the Free Enterprise System and its benefits including principles of production, consumption, and distribution of goods and services. The student will research the problem of scarcity in the United States and a comparison with those in other countries around the world. Students apply critical thinking skills to create economic models and evaluate economic patterns. (03310300)

Dual Credit Sociology – 8091 (SOC 1301)**Credit:** ½, Semester**Grade:** 11-12**Prerequisite:** *Complete ACC requirements, including TSI compliance, by deadlines*

This course is an introductory study in social behavior and organization of human society. This course will describe the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world. Students will also learn the importance and role of culture, social structure, socialization, and social change in today's society. (03370100)

Dual Credit Psychology – 8090 (PSYC 2301)**Credit:** ½, Semester**Grade:** 9-12**Prerequisite:** *Complete ACC requirements, including TSI compliance, by deadlines*

Students will survey introductory topics such as learning, memory, sensation and perception, personality, life-span development, physiological basis of behavior, stress and health, psychological disorders, social psychology, and research methods. (03350100)

Languages Other Than English (LOTE)

German I – 8813

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

German I will enable the student to understand and participate in simple conversations in the target language. This class will provide the fundamentals of grammar as vocabulary is introduced and as aspects of German culture are presented. (03440300)

German II – 8823, Pre-AP (8824)

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Successful completion or demonstration of equivalent proficiency of Level I*

German II is a continuation of German I, emphasizing mastery of basic language patterns with correct pronunciation and intonation. The class will read simple selections for comprehension and write short compositions while continuing to study German culture. (03420200) (03420200)

German III – 8833, Pre-AP – 8834

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Successful completion or demonstration of equivalent proficiency of Level II*

German III is a continuation of German II. The student will have a variety of listening experiences, be able to discuss subjects of everyday interest, and have a broadened knowledge of grammar. By studying selections of increasing literary value, the students will advance their reading skills and cultural understanding. Students will write original and guided compositions. Special assignments may include writing a paper, presenting poetry and skits and writing letters. (03420300) (03420300)

Spanish I – 8811

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This course will enable the student to understand and participate in simple conversations in the language. This class will provide the fundamentals of grammar as vocabulary is introduced and present aspects of Hispanic culture. (03440100)

Spanish II – 8821, Pre-AP – 8822

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Successful completion or demonstration of equivalent proficiency of Level I*

This course is a continuation of Spanish I, emphasizing mastery of basic language patterns with correct pronunciation and intonation. The class will read simple selections for comprehension and write short compositions while continuing to study Hispanic culture. (03440200) (03440200)

Spanish III – 8831, Pre-AP – 8832

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Successful completion or demonstration of equivalent proficiency of Level II*

The student will have a variety of listening experiences, be able to discuss subjects of everyday interest, and have a broadened knowledge of grammar. By studying selections of increasing literary value, students will advance their reading skills and cultural understanding. Students will write original and guided compositions. Special assignments may include writing a paper, presenting poetry and skits, and writing letters. Students who wish to exit the course during the fall semester may elect the Pass/Fail option and adhere to those requirements. (03440300) (03440300)

AP Spanish IV – 8842

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Successful completion or demonstration of equivalent proficiency of Level III*

Spanish IV AP is an intensive study of language and grammar. Students develop and refine skills in reading, writing, speaking, and listening. In addition, the course emphasizes the basic skills and vocabulary needed to excel on the AP Spanish language exam. *Students are required to take the Advanced Placement Spanish Exam at the conclusion of the course.* (A3440100)

Dual Credit Spanish III – 8891 (SPAN 1411)**Credit: 1, Semester****Grade: 9-12****Prerequisite:** *Successful completion or demonstration of equivalent proficiency of Level II; Complete ACC requirements, including TSI compliance, by deadlines.* (03440300)**Dual Credit Spanish IV – 8892 (SPAN 1412)****Credit: 1, Semester****Grade: 9-12****Prerequisite:** *Successful completion or demonstration of equivalent proficiency of Level III; Complete ACC requirements by deadline.*

Students who qualify for dual credit can earn 1.0 of high school credit for Spanish 4 (A&B) in the Spring Semester, and the student can earn four hours of college credit for ACC's **Spanish 1412 - Spanish II** (03440400)

Spanish -Native Speakers – I – 8816, II – 8826, III – 8836, IV – 8846**Credit: 1, Full Year Grade: 9-12****Prerequisite:** *Heritage Spanish speaker who possesses a wide range of communicative abilities in the language*

This is an accelerated course. (03440110) (03440220) (03440330) (03440440)

Computer Programming courses for LOTE credit**Computer Programming – 8037****Credit: 1, Full Year****Grade: 10-12****Prerequisite:** *Algebra II recommended*

Using Java, 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. (LOTES003- service ID override required)

AP Computer Science A – 8046**Credit: 1, Full Year****Grade: 11-12****Prerequisite:** *Computer Programming recommended*

This course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. It is meant to be the equivalent of a first semester college-level course in computer science. It also includes the study of data structures, design, and abstraction. This course is designed for students who are interested in Computer Science, Management Information System, or Engineering. *Students are required to take the Advanced Placement Computer Science Exam at the conclusion of the course.* (LOTES003- service ID override required)

Fine Arts

Visual Arts

Art I – 8911

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

Art I is an introductory art course which integrates art production with the study of basic design and drawing principles, art history, art criticism and exploration. Students will be expected to learn new vocabulary related to each unit studied and express ideas through original artworks using a variety of media such as pencil, charcoal, pastel, colored pencil, collage, scratch board, watercolor, tempura paint, wire, and clay. The goal is for students to gain an understanding and appreciation of art. **Art fees may be charged. (03500100)*

Art II – 8921

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Art I*

This course is designed to develop drawing skills to an advanced level through exploration of a variety of media, methods, and subjects. Students will be expected to draw from life as well as from memory and imagination. Art history research and vocabulary development are another important component of this course as students learn to make informed judgments about artwork through class discussion and written expression. Career opportunities in art related fields will also be explored. **Art fees may be charged. (03500500)*

Art III – 8931

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Art II*

Art III integrates creative expression with the study of art history, art criticism and career exploration with an emphasis on individual portfolio development. Students will be expected to develop and organize ideas from the environment, express ideas through original artworks, using a variety of media with appropriate skill and demonstrate understanding of art history and culture. Students will also make informed judgments about personal artworks and the artwork of others through class discussion and written expression. **Art fees may be charged. (03501300)*

Art IV – 8941

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Art III*

Emphasis in this course is on development of individual style and improved style and improved technique. Students will be required to create artworks based on a theme and will continue to develop their portfolios, choosing projects, media and methods to achieve a desired expressive intent. Students are encouraged to exhibit their work as well as enter art competitions. Continued career exploration and art history research are included in this course. **Art fees may be charged. (03502300)*

AP Studio Art Two-Dimensional Design – 8950

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Art II or higher*

This course is designed for students interested in mastering their skills and continuing their education in art beyond high school. AP Art students are required to submit a portfolio rather than take a written exam. The portfolio consists of three sections – Breadth, Concentration and Quality. Students must also complete a minimum of 24 works to fulfill portfolio requirements, be able to work on an individual basis on an individual basis in class, be willing to dedicate time at home for work on sketchbook assignments and projects, and complete assignments during the summer prior to enrollment in the course. **Art fees may be charged. **Students are required to take the Advanced Placement Exam at the conclusion of the course.** (A3500400)*

AP Studio Art Drawing – 8951

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Art II or higher*

This course requires students to produce works of art that reflect issues related to drawing. These works may include traditional as well as experimental approaches to drawing. Students will be expected or required to explore a variety of drawing media, including graphite, charcoal, pastel, oil pastel, colored pencil, paint and mixed media; produce a total of 24 works for the Breadth and Concentration sections; spend a considerable amount of time outside the classroom working on assignments; and maintain a sketchbook with a minimum of three assignments from the list of suggested assignments during the summer preceding AP Studio Art enrollment, which will be due by the end of the first full week of class. **Art fees may be charged. Students are required to take the Advanced Placement Exam at the conclusion of the course.* (A3500300)

Principles and Elements of Floral Design – 8011

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *None*

This course is designed to develop skills in the design and arrangement of flowers, foliage, and related plant materials for interior locations. Students learn the history of floral design, how to identify flowers and plants and how to use them artistically. Students will create floral arrangements in relation to contemporary designs, business practices, and specialty items such as weddings, creativity, and careers in the floral industry. **Fees may be charged.* (13001800)

Theatre Arts

Technical Theatre I – 8916

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This class includes sound, lights, make-up, set design, props and costuming. Students will complete several art projects related to color and design. Most projects are built around themes for theatrical productions. Students can be beginners or advanced at sketching and drawing. Students will also study art history, culture, and effects of events in the world on art and theater. Students will be required to make presentations and while acting is not the focus of the class, acting related exercises are included to give the technician experience in all theatrical activities. (03250500)

Technical Theatre II – 8926, III – 8936, IV – 8946

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Technical Theater 1*

This course includes a study of stage design, publicity, lighting, sound and other aspects of theatrical production in conjunction with actual stage production. Theatre history and careers in theatre will also be discussed. (03250600) (03251100) (03251200)

Theatre Arts I – 8914

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This course is an introduction to theater. Through a variety of experiences, students will communicate in a dramatic form, make artistic choices, solve problems, build positive self-concepts and relate interpersonally. Through perceptual studies students will increase their understanding of self and others. This class involves studying theatrical terms, theater history and ACTING! After learning some basics, this is a performance-dominated class. This class also includes many art projects and students are expected to be responsible for cleaning up while working on projects. (03250100)

Theatre Arts II – 8924, III – 8934, IV – 8944

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Theater 1*

Advanced Theater classes are available to those students who have enjoyed and successfully completed either Theater Arts 1 or Technical Theater. The advanced classes are mostly performance based. The student will construct scenery, study traditional literary genres, perform advanced scene work, write monologues, scenes, and finally plays. Students must be willing to participate in numerous performance activities. Class work will focus on the extra-curricular performances during tech, dress, and performance weeks. (03250200) (03250300) (03250400)

Theatre Production I – 8915

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Audition and instructor approval*

This is a class for those who truly enjoy the work involved in putting together a production. This is a performance class for serious and dedicated students. This is a varsity level class where students are expected to know and enjoy the work involved with putting on a production. Students in this class are expected to be a part of the extra-curricular theater productions. The student will concentrate on acting, directing, writing, design, and stagecraft. This means the student will participate in after school rehearsals and competitions. Class time is dedicated to extra-curricular performances. (03250700)

Theatre Production II – 8925, III – 8935, IV – 8945, III - 8935

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Theater Production I*

All aspects of production from a technical standpoint will be explored – set design, lights, and sound and theatre history. Special emphasis will be given to character development, voice, and diction and body control. This course requires after-school rehearsals and performance times, focuses on fall and spring show productions. Students must be willing to participate both as actors and crewmembers. (03250800) (03250900) (03251000)

Dance

Dance Team (Purple Diamonds) I - 8795, II - 8796, III - 8797, IV- 8798

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Tryouts required, instructor approval*

Students utilize a variety of dance forms in a highly visible and competitive organization. The curriculum meets and exceeds the requirements under the Dance TEKS. Course involves extensive rehearsals and performances outside the school day. (PES00014) (03833800) (03833900) (03834000)

Purple Diamond Dance Team Preparation – 8785

Credit: 1, Full Year

Grade: 9-11

This course is designed for students who plan to try out for dance team. The course covers basic techniques of dance and stretching with auditions for Purple Diamonds taking place in the fall semester. (03830100) (PES00014)

Dance I – 8786

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This course is designed to introduce students to the fundamental skills of recreational dancing as well as dance history, terminology, choreography, and costuming. Students learn the basics of various dance styles (modern, lyrical, jazz, hip-hop and etc.) and how to evaluate and understand them as a performing art and transmitter of culture.

***Dance qualifies as a fine arts or P.E. credit.** (PES00014) (03830100)

Dance II – 8787, III – 8788, IV– 8789

Credit: 1, Full Year

Grade: 10-12

Prerequisite – *instructor approval*

Four basic strands--perception, creative expression/performance, historical and cultural heritage, and critical evaluation--provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. Dance students develop perceptual thinking and moving abilities in daily life that promote understanding of themselves and others and allow them to interact effectively in the community. By mastering movement principles and skills, students develop self-discipline, and healthy bodies that move expressively, efficiently, and safely through space and time with controlled energy. (03830200) (03830300) (03830400)

Band

Marching Band I – 8912, II – 8922, III – 8932, IV – 8942

Credit: ½, **Fall Semester** **Grade:** 9-12

Prerequisite: *None*

The Wildcat Marching Band performs at all Elgin High School Football games, multiple marching contests, parades and UIL events. A student must take two semesters of Marching Band to equal one physical education credit. *Marching band I and II count as a P.E. equivalent credit (PES00012), III and IV will count as local credit (84200MCH)

Band I – 8917, II – 8927, III – 8937, IV – 8947

Credit: 1, **Full Year** **Grade:** 9-12

Prerequisite: *None*

Varsity (Wind Ensemble) and Non-Varsity (Symphonic and Honor Bands) placement is by audition only. As a prerequisite all students must participate in the Wildcat Marching Band. These organizations perform in multiple concerts throughout the school year and participate in competitions during the spring semester. The opportunity to participate in TMEA auditions as well as UIL Solo and Ensemble competitions at the Regional and State levels are available to all band students who meet eligibility requirements. Opportunities to participate in Jazz Ensemble are also available through membership in the EHS Concert bands. (03150100) (03150200) (03150300) (03150400)

Choir

Beginning Treble Choir (Female Voices) I – 8913, II – 8923, III – 8933, IV – 8943

Beginning Men's Choir (Male Voices)

Credit: 1, **Full Year** **Grade:** 9-12

Prerequisite: *None*

Beginning Chorus is open to all students of varied vocal talents and abilities. Students must be willing to sing actively each day and will be expected to learn music chosen by the director as well as do assigned music-related tasks during class. Additionally, students will learn to read music, sing a variety of songs, and prepare for public performances and assemblies. This non-auditioned choir will focus mostly on concert music. Students will begin mastery of vocal production, reading music, and independent part-singing. Concert music literature, both sacred and secular, of beginning to medium difficulty is performed. Students are provided instruction in creating, performing conducting, listening to, and analyzing music. A limited amount of time, outside of the school day, may be scheduled for dress rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and music goals. (03150900)

Advanced Mixed Choir II – 8929, III – 8939, IV – 8949

Credit: 1, **Full Year** **Grade:** 9-12

Prerequisite: *Audition may be required*

The Advanced Mixed Chorus is an elite mixed group of 30 singers. Members are enrolled by audition only and must be willing to put in the time and effort to rehearse and perform difficult music. During the second semester, students will participate in at least one competition where they will represent Elgin HS as they sing to compete against other choirs from across the country. They will also have the opportunity to take part in the UIL Solo/Ensemble Contest where a student or small groups of students can be evaluated on their singing by a highly qualified judge. Students must participate in performance opportunities outside of the school day. Classroom as well as independent practice and memorization is required. (03151000) (03151100) (03151200)

Show Choir I – 8918, II – 8928, III – 8938, IV – 8948

Credit: 1, **Full Year** **Grade:** 9-12

Prerequisite: *Audition required*

This ensemble requires a high level of musicianship, technique and skill level in dance and voice. Ensemble performs a high level or repertoire ranging from a cappella, jazz, pop, madrigal and choral works often combined with the Mixed Choir. There are leadership opportunities available as well as dance and vocal captains, outside performances in the community, and possible competition and /or trip opportunities. (03152100) (03152200) (03152300) (03152400)

Physical Education

*A student may not earn more than four credits in physical education toward state graduation requirements.

Foundations of Personal Fitness – 8771

Credit: ½, Semester or 1, Full Year **Grade:** 9-12

Prerequisite: *None*

The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class. Activities are based on understanding and establishing personal fitness. (PES00052)

Aerobic Activities – 8776

Credit: ½, Semester or 1, Full Year **Grade:** 9-12

Prerequisite: *None*

Students in aerobic activities are exposed to a variety of activities that promote health-related fitness. Students are expected to exhibit competency in two or more aerobic activities such as cycling, jogging, power walking, step aerobics, aerobic dance, etc. Students acquire the knowledge and skills for movement that provide the foundation for enjoyment, continued social development through physical activity, and access to a physically-active lifestyle. (PES00054)

Individual or Team Sports – 8777

Credit: ½, Semester or 1, Full Year **Grade:** 9-12

Prerequisite: *None*

Students in **Individual Sports** are expected to participate in a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of individual sport activities that are enjoyable is a major objective of this course. Students enrolled in **Team Sports** are expected to develop health-related fitness and an appreciation for team work and fair play. Like the other high school physical education courses, Team Sports is less concerned with the acquisition of physical fitness during the course than reinforcing the concept of incorporating physical activity into a lifestyle beyond high school. (PES00055)

Athletics

The Elgin High School UIL Athletic Program is organized to provide students an opportunity to express themselves in the physical activity of interschool competition. Students are involved in learning the fundamentals of the sport as well as conditioning and weight lifting. Athletics at the high school is highly competitive. When enrolled in athletics, practice of that sport is every day during the athletic period. When the sport is in its competitive season, the athlete will also practice an additional 1 ½ - 2 hours after school. You MUST have prior approval for the athletic period. Indicate on your choice sheet which sport(s) you plan to compete in.

You must have a medical physical and drug testing form on file with the athletic department to be enrolled in an athletic class. This is a UIL rule that mandates all incoming 9th and 11th graders, or new students to the program, have a physical on file that will be good for two school years.

Boys' Athletics

Credit: ½, Semester or 1, Full Year **Grade:** 9-12

Prerequisite: *Prior Approval and Physical on File*

Cross Country, Football, Basketball, Track, Baseball, Swimming, Tennis

9th Grade: **8701** (PES00000)

10th Grade: **8702** (PES00001)

11th Grade: **8703** (PES00002)

12th Grade: **8704** (PES00003)

Boys' Soccer

Credit: ½, Semester or 1, Full Year **Grade:** 9-12

Prerequisite: *Prior Approval and Physical on File*

9th Grade: **8705** (PES00000)

10th Grade: **8706** (PES00001)

11th Grade: **8707** (PES00002)

12th Grade: **8708** (PES00003)

Girls' Athletics

Credit: ½, Semester or 1, Full Year **Grade:** 9-12

Prerequisite: *Prior Approval and Physical on File*

Cross Country, Volleyball, Basketball, Track, Softball, Swimming, Tennis, and Soccer

9th Grade: **8751** (PES00000)

10th Grade: **8752** (PES00001)

11th Grade: **8753** (PES00002)

12th Grade: **8754** (PES00003)

Sports Medicine I – 8621

Credit: 1, Full Year **Grade:** 9-12

Prerequisite: *Instructor Approval*

This course provides the opportunity for the study and application of the components of sports medicine including organization and administration, prevention, recognition, evaluation, immediate care of injuries, rehabilitation and management skills, taping and wrapping, first aid/CPR/AED, emergency procedures, nutrition, sports psychology, anatomy. **This course does not grant physical education credit. (N1150040)**

Sports Medicine II - (8622), III – (8623)

Credit: 1, Full Year

Grade: 9-12

Course provides a more in depth study and application of sports medicine careers, organization and administration. Certifications include Heart saver, CPR/AED, First Aid and Basic Life Support. Students will participate in outside-of-class time homework working with athletes and athletic teams. **This course does not grant physical education credit.** (N1150041) (N1150044)

Career and Technology

Agriculture, Food, and Natural Resources Cluster

Principles of Agriculture, Food and Natural Resources – 8012

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *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. Students will learn the history of FFA, Parliamentary Procedure, History of Agriculture, breeds of livestock, Plant and Soil Science and basic mechanics. Opportunities will be made available to introduce students to FFA. The FFA is the largest and premiere youth group in the United States. Membership and raising a project are not required, but recommended. (1300200)

Agriculture Mechanics and Metal Technology – 8005

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Principles of Agriculture, Food and Natural Resources*

This is a hands-on learning course that allows students to develop skills in metal working, welding, tool use, and carpentry. Students will also be exposed to electricity, plumbing, and masonry. Once student skills are sharpened they will have the opportunity to plan and construct metal and wood projects. Students who successfully complete the full year with an 80 or better will receive state articulated credit. (13002200)

Advanced Animal Science – 8002

Credit: 1, Full Year

Grade: 11- 12

Prerequisite: *Recommended credit earned in Agriculture, Food and Natural Resources cluster*

This course 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 lab experiences. Students will learn about animal health and services with classroom and hands-on experiences, including shadowing at various local businesses. Students will travel to MD Anderson Research Center, Elgin Veterinary Hospital, and Elgin Breeding Service, to learn about various techniques in veterinarian medicine. Upon completion of this course students will have the opportunity to take the Texas Veterinary Medical Association Vet Tech Assistance Certification Exam. **This course will count as a fourth science credit.** (13000700)

Biotechnology – 8018

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Concepts of Engineering Recommended*

This course provides an overview of biotechnology, bioengineering, and related fields. Topics include genetics, cell structure, proteins, nucleic acids, and the impact of immunological events in biotechnology. Students further study the increasingly important agricultural, environmental, economic, and political roles of bioenergy and biological remediation; the roles of nanoscience and nanotechnology in biotechnology medical research; and future trends in biological science and biotechnology. (13036300)

Advanced Biotechnology – 8019

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *Biology and Chemistry recommended*

This is a lab-based course designed to introduce the basics of molecular biology in this rapidly developing industry. Instruction includes technical information and skill development in cell biology, Mendelian genetics, recombinant DNA techniques, plant and animal biotechnology, and career opportunities. While taking this course, students will improve their ability to perform certain advanced skills in cellular biology techniques, nucleic acid techniques, protein extraction/separation techniques, and microbiology.

This course will count as a fourth science credit. (13036400)

Equine Science – 8007

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *None*

To be prepared for careers in the field of equine science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to equine systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. The care and management of horses has developed into Equine Science, a multi-million dollar industry. The course will help the novice and the student who is already active in the horse industry to learn selection, nutrition, reproduction health, judging, and management of horses, donkeys or mules. Judging trips and tours are an integral and common part of the course. Students who successfully complete the full year with an 80 or better will receive state articulated credit. (13000500)

Principles and Elements of Floral Design – 8011

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *None*

This course is designed to develop skills in the design and arrangement of flowers, foliage, and related plant materials for interior locations. Students learn the history of floral design, how to identify flowers and plants and how to use them artistically. Students will create floral arrangements in relation to contemporary designs, business practices, and specialty items such as weddings, creativity, and careers in the floral industry. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. **This course will satisfy the Fine Arts credit.** (13001800)

Food Technology and Safety – 8006

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This course prepares students for careers in value-added and food processing systems; students need to acquire technical knowledge and skills regarding career opportunities, and agricultural industry expectations. Students will explain the impact of food science systems, describe, compare and contrast issues affecting the food science industry, including biotechnology, employment, safety, environmental, and animal welfare, to demonstrate an understanding of the trends and issues important to careers in the food science industry. Students will have the opportunity to become restaurant Safe Serve certified. (13001300)

Food Science – 8057

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *Three units of science*

This 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. Instruction is given concerning the physical, microbiological, and chemical principles that affect the food we eat. **This course can count as a third or fourth science credit.** (13023000)

Horticulture Science – 8008

Credit: 1/2, Semester

Grade: 10-12

Prerequisite: *None*

This exploratory course is designed as an introduction to horticultural sciences with emphasis on technical skills and career opportunities, and certifications. Students will gain hands-on experience working with plants. Students will produce and grow greenhouse and nursery house. (13002000)

Landscape Design and Turf Grass Management – 8009

Credit: 1/2, Semester

Grade: 10-12

Prerequisite: *None*

This course is designed to develop an understanding of landscape and turf grass management techniques and practices, and gain certifications. Students will gain hands on landscape experience. Students will learn the beautification of home grounds and other areas of human habitation and recreation. To be prepared for careers in horticultural systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. (13001900)

Livestock Production – 8010

Credit: 1/2, Semester

Grade: 9-12

Course pairs with Small Animal Management

Prerequisite: *None*

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 their knowledge and skills and technologies 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. (13000300)

Small Animal Management – 8014

Credit: 1/2, Semester

Grade: 9-12

Course pairs with Livestock Production

Prerequisite: *None*

This course will prepare students for careers in the field of animal science. Students need to acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, and industry expectations. 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. (13000400)

Wildlife, Fisheries and Ecology Management – 8017

Credit: 1/2, Semester

Grade: 10-12

Course pairs with Range Ecology and Management

Prerequisite: *Principles of Agriculture, Food and Natural Resources*

To be prepared for careers in natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, 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. This course examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices. (13001500)

Range Ecology and Management – 80??

Credit: 1/2, Semester

Grade: 10-12

Course pairs with Wildlife, Fisheries and Ecology Management

Prerequisite: *Principles of Agriculture, Food and Natural Resources*

To be prepared for careers in environmental and natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to environmental and natural resources, 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. This course is designed to develop students' understanding of rangeland ecosystems and sustainable forage production. (13001600)

Advanced Plant and Soil Science – 8003

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *None*

This course prepares students to produce and grow greenhouse and nursery plants, and maintain plant growth, and to make new plants from others. Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. This course is designed to involve students with horticulture (plant) sciences with the emphasis on hands on skills while teaching the students career opportunities using plants in Horticulture. During the majority of the class time, students will enjoy caring for and experimenting with plants in the greenhouse. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. Career and leadership skills in the Horticulture industry are also included. This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting. (13002100)

Veterinary Medical Applications – 8017

Credit: 1

Grade: 11-12

Prerequisite: *Small Animal Management or Equine Science*

This course is designed to introduce students to a career in veterinary science as the basic concepts and skills of the veterinary industry. Such skills include safety and sanitations, terminology, hospital management, and proper handling and restraining techniques. During this course, students will obtain the knowledge and skills that are essential in any veterinary setting. (13000600)

Practicum in Agriculture, Food and Natural Resources – 8013

Credit: 2-3

Grade: 11-12 recommended

Prerequisite: *Principles of Agriculture, Food and Natural Resources*

This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the level of experience such as employment, independent study, internships, assistantships, mentorships or laboratories. (13002500)

Small Engine Technology – 8067

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *None*

This course is designed to provide training for entry level employment in the small engine technology industry. Engine Technology includes knowledge of the function, diagnosis, and service of the systems and components of all types of small engines such as lawn mowers, motorcycle, and irrigation engines. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems and small engine overhauls. In addition, students will receive instruction in safety, academic, and leadership skills as well as career opportunities. (13040000)

Advanced Small Engine Technology – 8055

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *Small Engine Technology*

Advanced Small Engine Technology includes advanced knowledge, of function, diagnosis, and service of the systems and components of all types of small engines such as lawnmowers, motorcycles, and irrigation engines. The course is designed to provide advance training for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems and small engine overhauls. In addition, the student will receive instruction in safety, academic, and leadership skills as well as career opportunities. (13040100)

Welding – 8015

Credit: 1, Full

Grade: 10-12

Prerequisite: *Algebra I recommended*

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. Welding provides the knowledge, skills, and technologies required for employment opportunities in metal technology systems. Various types of welding techniques will be explored. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for success. (13032300)

Advanced Welding – 8016

Credit: 2 (two class periods), Full Year Grade: 11-12

Prerequisite: *Algebra I or Geometry and Welding*

Advanced Welding builds on the knowledge and skills developed in welding. Students will develop advanced welding concepts and skills related to personal and career development. Students will develop skills in the use of gas metal arc welding, gas tungsten welding, flux cored arc welding, and other advanced welding techniques. **Students who successfully complete the full year with an 80 or better will receive state articulated credit.** (13032400)

Arts, Audio/Video Technology and Communications Cluster

Principles of Arts, Audio/Video and Communications – 8063

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

Students will learn the use of analog and digital video cameras, editing software, and other related video and audio hardware and software to create video productions. Students will gain understanding of copyright laws and ethical acquisition of digital and video information. This course includes basic camera techniques, story/script writing, production, scheduling, lighting and audio recording techniques, postproduction and broadcasting. Projects will consist of the following genres depending on the length of each grading period; One-shot, Stop-Motion, Public Service Announcements, and Documentaries. (13008200)

Audio Video Production – 8064

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Principles of Arts, Audio/Video and Communications*

Audio/Video Production focuses on expanding the students' field of experience in all aspects of the audio/video industry with an emphasis on underlying principles of video technology. The class will be expected to work collaboratively as a production group. Each grading term the production group will be required to produce three projects: develop a device or idea that may be used in pre-production, production, or post-production; a lesson that will present the first year students (topics are approved by instructor); and a completed audio/video project. Two of six of the audio/video projects will focus on a theme of television production encompassing elements of studio programming. At the conclusion of each term the production group will reflect on the success and shortfalls. (13008500)

Advanced Audio Video Production – 8056

Credit: 2-3 (Two class periods), Full Year

Grade: 10-12

Prerequisite: *Audio Video Production*

Students will prepare for careers in audio and video technology and film production that 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 and advanced understanding of the industry with a focus on pre-production, production and post-production. (13008600)

Print and Imaging Technology – 8511

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Principles of Arts, Audio/Video and Communications*

Students will learn to communicate in a variety of forms including print, digital, and online. The course will include the expectation for students to plan, draft, and complete written and/or visual communications on a regular basis carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. (13009600)

Advanced Print and Imaging Technology – 8512

Credit: 2 Periods, Full Year

Grade: 10-12

Prerequisite: *Print and Imaging Technology*

Students will learn to communicate in a variety of forms including print, digital, and online. The course will include the expectation for students to plan, draft, and complete written and/or visual communications on a regular basis carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. (13009700)

Business Management and Administration Cluster

Principles of Business, Marketing, and Finance – 8032

Credit: 1, Full Year

Grade: 9-11

Prerequisite: *None*

This course is an introduction to marketing and finance. It also provides a basic foundation for accounting and advertising. Students will learn about the different types of businesses, from production, retail and service industries to non-profit organizations. They will create a business and create develop marketing strategies and a marketing plan. The students will also be working on projects for an introduction to Money and Finance. (13011200)

Money Matters – 8034

Credit: ½, Semester

Grade: 9-12

Prerequisite: *Principles of Business, Marketing, and Finance Recommended*

Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods of achieving long-term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning. (13016200)

Accounting I – 8023

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *None*

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. (13016600)

Business Management – 8028

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *None*

This course introduces basic management concepts and leadership styles, explores managerial functions, economic and social components of productivity, international business, and human relations. Students will develop an understanding of the changing nature of the business environment, concepts of business integrity, and develop and implement a business plan to demonstrate in an actual management project (in or out of the classroom environment). This course requires a student commitment to public speaking and presentations. (13012100)

Practicum in Business Management – 8065

Credit: 2-3, Full Year

Grade: 11-12

Prerequisite: *Business Management*

The Practicum 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. (13012200)

Education and Training Cluster

Principles of Education and Training – 8060

Credit: 1, Full Year

Grades: 9-12

Prerequisite: *None*

This course is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers. Students will also gain an understanding of the basic knowledge and skills essential to careers with this cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area. (13014200)

Child Development - 8054

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *None*

This course focuses on the many areas of development of children from conception through childhood. Instruction addresses the principles and procedures for promoting the physical, emotional, social and intellectual development of young children, including those with special needs. Other topics include child nutrition, the impact of technology on child development and health, public policies affecting children, characteristics of quality child care, career options related to the care and education of children and the management of multiple family, community, and family roles. (13024700)

Instructional Practices in Education and Training - 8059

Credit: 2, Full Year

Grades: 11-12

Prerequisite: *Child Development and Teacher Approval*

This course is designed to prepare high school students with skills to become a classroom teacher in the field of early childhood education and school age education. Students will work under the supervision of a career education instructor and classroom teacher preparing instructional materials and group activities. Students learn to plan and direct educational environments, assist with record keeping, and complete other responsibilities of education personnel. There may be a fee associated with this class. (13014400)

Practicum in Education and Training – 8061

Credit: 2, Full Year Grades: 11-12

Prerequisite: *Instructional Practices in Education and Training and instructor approval*

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. (13014500)

Finance Cluster

Accounting I – 8023

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *Principles of Business, Marketing, and Finance*

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. (13016600)

Principles of Business, Marketing, and Finance – 8032

Credit: 1, Full Year

Grade: 9-11

Prerequisite: *None*

This course is an introduction to marketing and finance. It also provides a basic foundation for accounting and advertising. Students will learn about the different types of businesses, from production, retail and service industries to non-profit organizations. They will create a business and create develop marketing strategies and a marketing plan. The students will also be working on projects for an introduction to Money and Finance. (13011200)

Money Matters – 8034

Credit: ½, semester

Grade: 9-12

Prerequisite: *Principles of Business, Marketing, and Finance Recommended*

Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods of achieving long-term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning. (13016200)

Government and Public Administration Cluster

JROTC/Navy National Defense Cadet Corps (NNDCC) – 8791

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This class serves as the foundation of Navy ROTC and will introduce the students to the NNDCC Program, its background and mission. Curriculum will include citizenship, American government, naval ships, wellness, fitness and first aid. Cadets presenting evidence of successful completion of at least 3 years in NNDCC are entitled to advanced promotion to pay grade E-3 upon initial enlistment in an active or reserve component of the Army, Navy, or Air Force, and pay grade E-2 in the Marine Corps. (03160100 or PES00004)

JROTC/Navy National Defense Cadet Corps (NNDCC) II – 8792

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *JROTC I*

This class serves as the foundation of Navy ROTC and will introduce the students to the NNDCC Program, its background and mission. Curriculum will include citizenship, American government, naval ships, wellness, fitness and first aid. Cadets presenting evidence of successful completion of at least 3 years in NNDCC are entitled to advanced promotion to pay grade E-3 upon initial enlistment in an active or reserve component of the Army, Navy, or Air Force, and pay grade E-2 in the Marine Corps.

*JROTC III – 8793 (03160300) and IV – 8794 (03160400) will complete the requirements for this endorsement. (03160200)

Human Services Cluster

Business Management – 8028

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *None*

This course introduces basic management concepts and leadership styles, explores managerial functions, economic and social components of productivity, international business, and human relations. Students will develop an understanding of the changing nature of the business environment, concepts of business integrity, and develop and implement a business plan to demonstrate in an actual management project (in or out of the classroom environment). This course requires a student commitment to public speaking and presentations. **Students who successfully complete the full year with an 85 or better will receive state articulated credit.** (13012100)

Principles of Human Services – 8062

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

Principles of Human Services is a laboratory course that will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers. (13024200)

Information Technology Cluster

Principles of Arts, Audio/Video, and Communications – 8063

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

Students will learn the use of analog and digital video cameras, editing software, and other related video and audio hardware and software to create video productions. Students will gain understanding of copyright laws and ethical acquisition of digital and video information. This course includes basic camera techniques, story/script writing, production, scheduling, lighting and audio recording techniques, postproduction and broadcasting. Projects will consist of the following genres depending on the length of each grading period; One-shot, Stop-Motion, Public Service Announcements, and Documentaries. **Students who successfully complete the full year with an 85 or better will receive locally articulated credit.** (13008200)

Computer Programming – 8037

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *Algebra II recommended*

Using Java, 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. (13027600)

Print and Imaging Technology – 8511

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *Principles of Arts, Audio/Video and Communications*

Students will learn to communicate in a variety of forms including print, digital, and online. The course will include the expectation for students to plan, draft, and complete written and/or visual communications on a regular basis carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. (13009600)

Advanced Print and Imaging Technology – 8512

Credit: 2 Periods, Full Year

Grade: 10-12

Prerequisite: *Print and Imaging Technology*

Students will learn to communicate in a variety of forms including print, digital, and online. The course will include the expectation for students to plan, draft, and complete written and/or visual communications on a regular basis carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. (13009700)

Digital and Interactive Media (DIM) – 8045

Credit: 1, Full Year

Grades: 10-12

Prerequisite: *Principles of Information Technology recommended*

Digital and Interactive Media is a challenging course designed to prepare the student for success in a rapidly evolving global business environment. Ethical use of the internet and existing multimedia will be discussed. Through the study of digital and interactive media and its application in information technology, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. 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. (13027800)

Principles of Information Technology – 8052

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

Students will develop computer literacy skills to adapt to emerging technologies used in the global market place while utilizing personal and interpersonal skills to prepare for a rapidly evolving workplace environment. (13027200)

Video Game Design – 8043

Credit: 1, Full Year

Grade: 12

Prerequisite: *Two high school information technology courses*

Touch typing is highly recommended. Introduction to electronic game development and game development careers includes an examination of the history and philosophy of games, the game production process, employee factors for success in the field, and current issues and practices in the game development industry. Students will collaborate with one another, with their instructor, and with various electronic communities to solve gaming problems presented through the course. Data analysis will include the identification of task requirements, planning search strategies, and the use of programming concepts to access, analyze, and evaluate information needed to design games. (N1300993)

Law, Public Safety, Corrections and Security Cluster

Principles of Law, Public Safety, Corrections, and Security – 8053

Credits: 1, Full Year

Grades: 9-12

Prerequisite: *None*

This course 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. (13029200)

Law Enforcement I – 8050

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *Principles of Law, Public Safety, Corrections and Security*

This course will provide a general overview of current law enforcement procedures, communication skills, criminal law, law enforcement terminology, traffic stops, basic field notes and police incident report writing; and basic crime scene procedures. The course will also include an overview of the history, organization and functions of local, state, and federal law enforcement. **Students who successfully complete the full year with an 80 or better will receive state articulated credit.** (13029300)

Law Enforcement II – 8051

Credit: 1-2, Full Year

Grade: 11-12

Prerequisites: *Law Enforcement I*

This course will provide knowledge and skills necessary to prepare for a career in law enforcement. The study of common police procedures telecommunications, advanced field note taking and report writing; use of force; arrest procedures; search and pat down procedures; crowd control; accident investigations felony traffic stops; courtroom testimony. The course will also include the ethical and legal responsibilities of law enforcement officers. (13029400)

Forensic Science – 8371

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *Biology & Chemistry and Principles of Law, Public Safety, Corrections & Security, and Law Enforcement I*

Forensic science is a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminalist behavior. Students will learn basic terminology and investigative procedures related to crime scene, question building, interviewing, criminal behavior characteristics, truth detection methodology, and scientific procedures used to solve crimes. Students will have the opportunity to collect and analyze evidence through case studies and mock crime scenes. Lab activities will be based on crime scene scenarios and analyzing fingerprints, ballistics, and blood spatter. Students will learn about the history, legal aspects of forensic science, and career options available in the forensic field. **This course will count as a fourth science credit.** (13029500)

Manufacturing Cluster

Principles of Manufacturing – 8024

Credit: ½, Semester

Grade: 9-12

Prerequisite: *Algebra I recommended*

This course teaches 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. Knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology, and the assessment of the effects of manufacturing production technology prepare students for success in the modern world. The study of manufacturing technology 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. In addition to general academic and technical knowledge and skills, students gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers. (13032200)

Welding – 8015

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *Algebra I*

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. Welding provides the knowledge, skills, and technologies required for employment opportunities in metal technology systems. Various types of welding techniques will be explored. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for success. **Students who successfully complete the full year with an 85 or better will receive locally articulated credit.** (13032300)

Advanced Welding – 8016

Credit: 2 periods, Full Year

Grade: 11-12

Prerequisite: *Algebra I or Geometry and Welding*

Advanced Welding builds on the knowledge and skills developed in welding. Students will develop advanced welding concepts and skills related to personal and career development. Students will develop skills in the use of gas metal arc welding, gas tungsten welding, flux cored arc welding, and other advanced welding techniques. **Students who successfully complete the full year with an 80 or better will receive state articulated credit. Students who successfully complete the full year with an 85 or better will receive locally articulated credit.** (13032400)

Practicum in Manufacturing – 8066

Credits: 2, Full Year

Grade: 12

Prerequisite: *The practicum course is for students participating in a coherent sequence of career and technical education courses in the manufacturing cluster.*

This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study or laboratories. The practicum course is a capstone experience for students participating in a coherent sequence of courses in the Manufacturing cluster. (13033000)

Marketing Cluster

Principles of Business, Marketing, and Finance – 8032

Credit: 1, Full Year

Grade: 9-11

Prerequisite: *None*

This course is an introduction to marketing and finance. It also provides a basic foundation for accounting and advertising. Students will learn about the different types of businesses, from production, retail and service industries to non-profit organizations. They will create a business and create develop marketing strategies and a marketing plan. The students will also be working on projects for an introduction to Money and Finance. **Students who successfully complete the full year with an 80 or better will receive state articulated credit.** (13011200)

Advertising Sales Promotions – 8001

Credit: ½, Semester

Grade: 9-12

Prerequisite: *Principals of business, Marketing, and Finance*

Paired with Entrepreneurship

Advertising and Sales Promotion is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising. Students will create advertising using print, broadcast, and digital media. The course explores the social, ethical, and legal issues of advertising, historical influences, strategies and media decision processes as well as integrated marketing communications. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge. (13034200)

Entrepreneurship – 8029

Credit: ½, Semester

Grade: 9-12

Prerequisite: *Principles of Business, Marketing and Finance*

Paired with Advertising Sales Promotions

Business ownership is one of the most important engines that drives our country's economy. Through entrepreneurship, new ideas are turned into business products and entire industries. Students will learn about identifying market opportunities, creating and evaluating business ideas, and exploring the opportunities in starting their own business by developing a basic business plan. Students will see how everything fits together as they start and operate a business venture. The students must prepare an actual business development project. This course requires a student commitment to public speaking and presentations. **Students must sign up to take Business Law.** (13034400)

Business Law – 8027

Credit: ½, Semester

Grade: 11-12

Prerequisite: *Principals of business, Marketing, and Finance*

Paired with Human Resources Management

Students analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, concept of agency and employment, and real property. Students apply technical skills to address business applications of contemporary legal issues. 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. (13011700)

Human Resources Management – 80??

Credit: ½, Semester

Grade: 11-12

Prerequisite: *Principals of business, Marketing, and Finance*

Paired with Business Law

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of human resources management, which include recruitment, selection, training, development, and compensation. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of human resources in order to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, financial, ethical, and international dimensions of business to make appropriate human resources decisions. (13011900)

Business Management – 8028

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *None*

This course introduces basic management concepts and leadership styles, explores managerial functions, economic and social components of productivity, international business, and human relations. Students will develop an understanding of the changing nature of the business environment, concepts of business integrity, and develop and implement a business plan to demonstrate in an actual management project (in or out of the classroom environment). This course requires a student commitment to public speaking and presentations. **Students who successfully complete the full year with an 85 or better will receive state articulated credit.** (13012100)

Digital and Interactive Media (DIM) – 8045

Credit: 1, Full Year

Grades: 9-12

Prerequisite: *I earned credit in Business Information Management I recommended*

Digital and Interactive Media is a challenging course designed to prepare the student for success in a rapidly evolving global business environment. Ethical use of the internet and existing multimedia will be discussed. Through the study of digital and interactive media and its application in information technology, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. 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. **Students who successfully complete the full year with an 85 or better will receive locally articulated credit.** (13027800)

Retailing and E-Tailing – 8033

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

Students will have the opportunity to develop skills that involve electronic media techniques necessary for a business to compete in a global economy. Students will coordinate online and off-line marketing. Students will demonstrate critical-thinking skills using decision-making models, case studies, various technologies, and business scenarios. (13034500)

Marketing Dynamics – 8076

Credit: 2-3 periods, Full Year

Grade: 11-12

Prerequisite: *Principles of Business, Marketing and Finance*

Marketing is a series of dynamic activities that focus on the customer to generate a profitable exchange. Students 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 integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions. This course may include paid or unpaid career preparation experience. (13034700)

Practicum in Marketing Dynamics – 8077

Credit: 2-3 periods, Full Year

Grade: 12

Prerequisite: *Marketing Dynamics*

Through course required employment, students 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 create the marketing mix. This course covers technology, communication, and customer-service skills. The practicum is designed to give students supervised 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 course is a paid or unpaid experience for students participating in a coherent sequence of career and technical education courses in marketing education. (13034800)

Science, Technology, Engineering and Mathematics (STEM) Cluster

Concepts of Engineering and Technology – 8068

Credit: 1, Full Year

Grade: 9-10

Prerequisite: *None*

Concepts of Engineering and Technology provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Upon completing the course, students will have an understanding of the various fields and will be able to make informed decisions regarding a coherent sequence of subsequent courses. 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. (13036200)

Biotechnology – 8018

Credit: 1, Full Year

Grade: 9-12

Prerequisite: *None*

This course provides an overview of biotechnology, bioengineering, and related fields. Topics include genetics, cell structure, proteins, nucleic acids, and the impact of immunological events in biotechnology. Students further study the increasingly important agricultural, environmental, economic, and political roles of bioenergy and biological remediation; the roles of nanoscience and nanotechnology in biotechnology medical research; and future trends in biological science and biotechnology. (13036300)

Advanced Biotechnology – 8019

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *Biology and Chemistry recommended*

This is a lab-based course designed to introduce the basics of molecular biology in this rapidly developing industry. Instruction includes technical information and skill development in cell biology, Mendelian genetics, recombinant DNA techniques, plant and animal biotechnology, and career opportunities. While taking this course, students will improve their ability to perform certain advanced skills in cellular biology techniques, nucleic acid techniques, protein extraction/separation techniques, and microbiology. **This course will count as a fourth science.** (13036400)

Computer Programming – 8037

Credit: 1, Full Year

Grade: 10-12

Prerequisite: *Algebra II recommended*

Using Java, 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. (13027600)

Digital and Interactive Media (DIM) – 8045

Credit: 1, Full Year

Grades: 10-12

Prerequisite: *Principles of Information Technology recommended*

Digital and Interactive Media is a challenging course designed to prepare the student for success in a rapidly evolving global business environment. Ethical use of the internet and existing multimedia will be discussed. Through the study of digital and interactive media and its application in information technology, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. 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. **Students who successfully complete the full year with an 85 or better will receive locally articulated credit.** (13027800)

Robotics and Automation – 8042

Credit: 1, Full Year

Grade: 11-12

Prerequisite: *Concepts of Engineering and Technology*

Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementations of the design process, students will transfer advanced academic skills to component designs in a project-based environment. 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. (13037000)

Transportation, Distribution, and Logistics Cluster

Concepts of Engineering and Technology – 8068

Credit: 1, Full Year

Grade: 9-10

Prerequisite: *None*

Concepts of Engineering and Technology provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Upon completing the course, students will have an understanding of the various fields and will be able to make informed decisions regarding a coherent sequence of subsequent courses. 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. (13037000)

Automotive Technology – 8020

Credit: 1, Full Year

Grade: 9-12

Prerequisites: *None*

Automotive services include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis 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 the theory of operation of automotive vehicle systems and associated repair practices. **Students who successfully complete the full year with an 80 or better will receive locally articulated credit.** (13039600)

Advanced Automotive Technology – 8021

Credits: 2, Full Year

Grade: 11-12

Prerequisites: *Automotive Technology*

Automotive services include advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Advanced Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis 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 preparing the student for a possible career in automotive service. **Students who successfully complete the full year with an 80 or better will receive locally articulated credit.** (13039700)

Collision Repair and Refinishing – 8039

Credits: 1-2, Full Year

Grade: 10-12

Prerequisites: *none*

Collision repair and refinishing services include knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing. (13039800)

Advanced Collision Repair and Refinishing – 8040

Credits: 1-2, Full Year

Grade: 10-12

Prerequisites: *Collision Repair and Refinishing*

Collision repair and refinishing services include knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the concepts and theory of systems related to advance automotive collision repair and refinishing. (13039900)

Principles in Transportation, Distribution and Logistics – 8041

Credits: 1, Full Year

Grade: 9-11

Prerequisite: *none*

In Principles of Transportation, Distribution, and Logistics, students gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the logistics of warehousing and transportation systems. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation, distribution, and logistics industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. (13039200)

Practicum in Transportation, Distribution and Logistics – 8022

Credits: 2, Full Year

Grade: 11-12

Prerequisite: *The practicum course for students participating in a coherent sequence of courses in the Transportation, Distribution, and Logistics cluster.*

This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study or laboratories. The practicum course is a capstone experience for students participating in a coherent sequence of courses in the Transportation, Distribution, and Logistics cluster. (13040400)

Other CTE courses

Career Preparation I – 8035 II – 8036

Credits: 2-3, Full Year

Grade: 11-12

Prerequisite: *None*

Career Preparation I provides 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. (12701300) (12701400)

Additional Electives and Special Programs

Health – 8611

Credit: ½, Semester

Grade: 9-12

Prerequisite: *None*

Health is a study of the care of the body and its systems, as well as the relationship of personal behavior to wellness. Some topics covered are consumer health, nutrition, sex education for family living, use and abuse of tobacco, alcohol and drugs, and growth and development. Community health, environmental studies, disease, fitness, first aid and safety are also studied. (03810100)

Dual Credit Sociology – 8091 (SOC1 1301)

Credit: ½, Semester

Grade: 9-12

Prerequisite: *Complete ACC requirements, including TSI compliance, by deadlines*

This course is an introductory study in social behavior and organization of human society. This course will describe the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world. Students will also learn the importance and role of culture, social structure, socialization, and social change in today's society. (0337010)

Dual Credit Psychology – 8090 (PSYC 2301)

Credit: ½, Semester

Grade: 9-12

Prerequisite: *Complete ACC requirements, including TSI compliance, by deadlines*

Students will survey introductory topics such as learning, memory, sensation and perception, personality, life-span development, physiological basis of behavior, stress and health, psychological disorders, social psychology, and research methods. (03350100)

Dual Credit Effective Learning Strategies for College Success – 8096 (Psych 1300 or EDU 1301)

Credit: ½, Semester

Grade: 9-12

Prerequisite: *Complete ACC requirements, including TSI compliance, by deadlines*

This course teaches learning and self-management principles and practices that increase a student's success in college and in life. Drawing from cognitive, affective, and behavioral theories in psychology, students examine the factors which impact their learning, select relevant methods of deepening their learning and thinking processes, and develop self-regulation strategies for maximizing the effectiveness of their efforts. (03270100)

AVID I – 8521, II - 8522**Credit: 1, Full Year****Prerequisite:** *Prior approval required* **Grade: 9-10**

The AVID elective classes accelerate students into more rigorous course selections. Students are enrolled in a college preparatory sequence with a minimum of one advanced level course and must be challenged to move beyond previous levels of achievement. In the class, students receive the academic and motivational support to succeed by a trained AVID teacher. During the class, students are coached by college tutors and work in collaborative groups using a curriculum focused on writing and inquiry. Other days are devoted to reading, writing, and math preparations for college entrance and placement exams. Students take part in motivational presentation and field trips to colleges and universities. (N1290001) (N1290002)

Reading I – 8117, II – 8127, III – 8137**Credit: 1, Full Year****Grade: 9-12**

This course is for students with severe reading difficulties identified by formal assessments.

Students use a flexible range of metacognitive reading skills in both assigned and independent reading to understand an author's message. The student is expected to reflect on understanding to monitor comprehension and make complex inferences about text and use textual evidence to support understanding. (03270700) (03270800) (03270900)

Off Campus – Early Release**1st Period – 8080, 7th Period – 8081, 8th Period – 8082****Credit: None****Grade: 12****Prerequisite:** *Counselor and Parent Written Approval*

When deciding to choose an off campus period, the student must keep in mind that he/she must be enrolled in at least five credit courses during a semester to be eligible for participation in UIL activities. A maximum of two off campus periods may be selected from the three periods that are available. Students in danger of not graduating will not receive approval. (85000EAR)

Aides – Office Aide 8087, Library Aide 8088, Teacher Aide 8089, Counselor Aide 8095**Credit: None****Grade: 12****Prerequisite:** *Prior Approval Needed, See teacher or office staff for an application*

This course is designed as an independent study class and is open only to seniors. Students are expected to be able to fulfill duties and responsibilities common to professional environments such as using skills for effective communication and information management as well as understanding social ramifications related to privacy, values, and ethics. (85000OFF) (85000LIB) (85000TEA) (85000CSL)

Early College High School (9th and 10th Grade)

TSI Prep Course – 8094

Credit: ½, Semester

Grade: 9

Prerequisite: *None*

This course helps students get ready for college level coursework by preparing students for the Texas Success Initiative exam with special emphasis on reading and writing. **Required for all first year freshmen unless taking AVID.** (85000TSI)

Effective Learning Strategies for College Success – 8096 Psychology 1300

Credit: ½, Semester

Grade: 9

Prerequisite: *TSI Compliance*

This course teaches learning and self-management principles and practices that increase a student's success in college and in life. Drawing from cognitive, affective, and behavioral theories in psychology, students examine the factors which impact their learning, select relevant methods of deepening their learning and thinking processes, and develop self-regulation strategies for maximizing the effectiveness of their efforts. **Students will earn three hours of college credit from Austin Community College.** (03270100)

Spanish I, II, or III – 8891, 8892 or 8893 (Spanish 1411)

Credit: 1, Fall Semester

Prerequisite: *TSI Compliance and Effective Learning Strategies for College Success*

This course is a study of fundamentals of Spanish: conversation, basic writing, listening and reading comprehension, vocabulary building, grammar, and culture. **Students will earn four hours of college credit from Austin Community College.** (03440100) (03440200) (03440300)

Spanish II, III or IV – 8892, 8893 or 8894 (Spanish 1412)

Credit: 1, Spring Semester

Prerequisite: *TSI Compliance and Effective Learning Strategies for College Success*

This course is a continuation of SPAN 1411 with more advanced conversation, basic writing listening, listening and reading comprehension, vocabulary building, grammar, and culture. **Students will earn four hours of college credit from Austin Community College.** (03440200) (03440300) (03440400)

Theatre Arts - 8999 (Drama 1310)

Credit: 1, Semester

Prerequisite: *TSI Compliance and Effective Learning Strategies for College Success*

This course is an introductory course in the study of drama or art depending on Austin Community College's instructor availability. Emphasis will be placed on basic understandings and approaches, general survey/overview, and appreciation of the fine art discipline. **Students will earn three hours of college credit from Austin Community College.** (03250100)

Dual Credit Public Speaking – 8197 (Speech 1315)

Credit .5, Semester

Prerequisite: *TSI Compliance and Effective Learning Strategies for College Success*

This course is a study of the basic principles and techniques of speeches for various purposes and occasions. This course concentrates on practical experience in developing speaking and listening abilities. **Students will earn three hours of college credit from Austin Community College.** (03240900)

Appendices

Appendix A
Notification of Eligibility for Automatic College Admission

This notice confirms that, pending the satisfaction of all applicable requirements (see below),
_____ will be eligible for automatic college admission.

In accordance with Texas Education Code (TEC), 51.803, a student is eligible for automatic admission to a college or university as an undergraduate student if the applicant earned a grade point average in the top 10 percent of the student's high school graduating class, or the top 7 percent for admission to the University of Texas at Austin, and the applicant:

1. Successfully completed the requirements for the Recommended High School Program (RHSP), the Distinguished Achievement Program (DAP) or the Distinguished Level of Achievement; or
2. Satisfied ACT's College Readiness Benchmarks on the ACT assessment or earned on the SAT assessment a score of at least 1500 out of 2400 or the equivalent.

In accordance with Title 19 Texas Administrative Code (TAC), 5.5 (e), high school rank for students seeking automatic admission to a general academic teaching institution on the basis of class rank is determined and reported as follows:

1. Class rank shall be based on the end of the 11th grade, middle of the 12th grade, or at high school graduation, whichever is the most recent at the application deadline.
2. The top 10 percent of a high school class shall not contain more than 10 percent of the total class size.
3. The student's rank shall be reported by the applicant's high school or school district as a specific number out of a specific number total class size.
4. Class rank shall be determined by the school or school district from which the student graduated or expected to graduate.

An applicant who does not satisfy the course requirements is considered to have satisfied those requirements if the student completed the portion of the RHSP or DAP that was available to the student but was unable to complete the remainder of the coursework solely because courses were unavailable to the student at the appropriate times in the student's high school career as a result of circumstances not within the student's control.

To qualify for automatic admission an applicant must:

1. Submit an application before the deadline established by the college or university to which the student seeks admission; and
2. Provide a high school transcript or diploma that indicates whether the student has satisfied or is on schedule to satisfy the requirements of the RHSP, DAP, or Distinguished Level of Achievement or the portion of the RHSP, DAP, or Distinguished Level of Achievement that was available to the student.

Colleges and universities are required to admit an applicant for admission as an undergraduate student if the applicant is the child of a public servant who was killed or sustained a fatal injury in the line of duty and meets the minimum requirements, if any, established by the governing board of the college or university for high school or prior college-level grade point average and performance on standardized tests.

My signature below constitutes my acknowledgment that I have been provided with a copy of the notification of automatic college admission and explanation of eligibility for college admission.

Signature of Student

Date

Signature of Parent or Guardian

Date

Appendix B

Dual Credit and ECHS Student Information

Satisfactory Academic Progress for Financial Aid (SAP) at ACC:

Federal regulations require all financial aid recipients to maintain satisfactory academic progress in a course of study leading toward a degree or certificate. Failure to meet one or more of the established standards of Satisfactory Academic Progress (SAP) will make a student ineligible for financial aid. Financial Aid SAP status includes all previous academic history, even if the student did not receive financial aid. Statuses are updated at the end of each semester, including summer. It is the student's responsibility to monitor academic progress. Although the Financial Aid Office attempts to send students correspondence informing them of their status, students who do not meet the standards will be ineligible for financial aid even if they do not receive correspondence.

Students must be meeting Financial Aid Satisfactory Academic Progress to be eligible for initial financial aid consideration. This includes Early College Start courses taken at ACC.

Elements of Financial Aid Satisfactory Academic Progress:

- **Grade Point Average (GPA) Requirement**

Students must maintain a 2.0 cumulative GPA on all hours attempted at ACC: [GPA calculator](#)

- **Completion Rate Requirement**

Students must complete 67% of all hours attempted at ACC: [Completion Rate Calculator](#).

- **Maximum Time Frame**

Students receiving financial aid must complete their program of study within a reasonable time frame. The maximum time frame is 150% of the published length of the academic program or certificate (to include all transfer credit hours). Limited developmental coursework will not be counted in the maximum time frame.

Example: Associate of Science Degree in Physics = 64 hours x 150% = 96 hours
96 hours is the maximum that can be attempted with financial aid.

Six Course Drop Limitation: Texas Education Code Section 51.907 mandates that all students who enroll as first-time freshmen at a Texas public institution of higher education in Fall of 2007 or later may not drop more than six courses during their academic career. Consequently, students may not be permitted to drop more than six courses. This includes courses dropped at any Texas public institution of higher education. All courses dropped after the Official Reporting Date will be included in the six-course limit unless:

- the student withdraws from all courses, or
- the drop is authorized by an appropriate college official as an approved drop exception.

Exempted Courses: The following courses are specifically exempted from the six-drop rule and dropping these courses will not affect the lifetime six-drop limit at ACC:

- Courses taken by students while enrolled in high school for dual credit, early college credit, or for college credit alone.
- Hours attempted through examination or similar method without registering for a course.
- Developmental courses
- Continuing education courses
- Hours earned at a private institution or an out-of-state institution
- Hours not eligible for formula funding
- Courses in which a punitive non-completion grade (such as WF) is received
- Courses in which a student receives an incomplete grade
- Documented College error

Appendix C

Elgin High School Dual Credit and ECHS - Student Agreement:

- My parents and I give Elgin High School and its partnering college permission to share information from my educational records including grades as indicated with our signatures below.
- I understand that college faculty may not be EISD employees and therefore may have no bearing on who is hired for a particular course and EHS does not have input into instructional delivery and/or teaching and grading methods.
- I understand that high school credit for successful completion of dual credit college course(s) will appear on my Academic Achievement Record (AAR)/high school transcript. I understand that the grade will be used to calculate my GPA.
- I understand that I will not earn high school credit for concurrent courses; thus, it will not be shown on my schedule or on my school Academic Achievement Record (AAR)/high school transcript nor will the grade be used for my Grade Point Average (GPA) or rank.
- I understand that in order for a dual credit or concurrent class to count as an advanced measure on the Distinguished Achievement Plan (DAP), I must earn an A or B.
- I understand I am required to pay all costs associated with taking concurrent college courses.
- I understand it is my responsibility to provide my Elgin High School Counselor my official college transcript or grade sheet before the last day of the EHS semester.
- I understand that if I drop a class, I must contact my EHS counselor immediately so that one of the following takes place:
 - I drop a dual credit enrollment class PRIOR to the college census date and I enroll in a corresponding EHS class.
 - I drop a dual credit enrollment class AFTER the college census date during the semester. I will be transferred/enrolled into an unweighted regular level course at EHS for the remainder of the semester. I understand that it is my responsibility to obtain my grade from my dual credit professor and provide it to my counselor. If I do not, my transfer grade will be a 50.
- If I am unable to produce a grade report at the end of the appropriate semester for a dual enrollment course, a 50 will be recorded as the official grade on my EHS transcript for each dual enrollment course that is approved by EHS.
- I understand that as a dual enrolled or concurrent enrolled student, I fall under the calendar provided by the named college or university in regard to class attendance and holidays as well as the Elgin ISD calendar.
- I understand that I must register only for the courses that have been approved and named on the co-enrollment form submitted at the time of the advising session with the college advising session.
- **I understand I must meet financial aid satisfactory academic progress to be eligible for future college financial aid consideration.**
- I realize that I must register with the college for the dual enrollment course(s) or the concurrent enrollment course(s). I realize that if I DO NOT successfully register with ACC for a dual credit course, I will be placed in an EHS course(s).
- I understand that if I complete a dual credit course for which I already have high school credit, I will not earn high school credit again, but the course and grade will be shown on my AAR/high school transcript.

Student's Name

EHS ID Number

Current Grade Level

Student's Signature

Date

Social Security Number

Parent/Guardian:

I am the parent/guardian of the above named student. I hereby provide consent to the student's application and shared educational information that is held with each school. I accept the above certifications and agreements. I understand that my signature signifies acceptance of the rules, policies, and procedures of the Elgin High School Dual Credit/ program.

Parent's Signature

Appendix D

*Dual Credit Course Offerings***

Dual Credit-Must earn an 80 or better to count as an Advanced Measure for Distinguished Achievement				
8191	Dual Credit Eng III A	Austin Community College	ENGL 1301	English Composition I with American Literature
8192	Dual Credit Eng III B	Austin Community College	ENGL 1302	English Composition II with American Literature
8196	Dual Credit Eng IV A,B	Austin Community College	ENGL 2322	British Literature
8195	Dual Credit Professional Communications (Speech)	Austin Community College	SPCH 1311	Introduction to Speech Communication
8197	Public Speaking I	Austin Community College	SPCH 1315	Public Speaking
8498	Special Topics in Social Studies	Austin Community College	HIST 1301	US History I
8491	Dual Credit US History A,B	Austin Community College	HIST 1302	US History II
8891	Dual Credit Span III (Fall - 1.0)	Austin Community College	SPAN 1411	Spanish I
8892	Dual Credit Span IV (Spring - 1.0)	Austin Community College	SPAN 1412	Spanish II
8493	Dual Credit US Government	Austin Community College	GOVT 2305	US Government
8591	Dual Credit Econ	Austin Community College	ECON 2301	Principles of Macroeconomics
8090	Dual Credit Psych	Austin Community College	PSYC 2301	Introduction to Psychology
8091	Dual Credit Sociology	Austin Community College	SOCI 1301	Introduction to Sociology
8499	Special Topics in Social Studies	Austin Community College	GOVT 2306	Texas Government

When enrolling in and taking Dual Credit Courses, students must submit application prior to enrollment and follow all college requirements and course prerequisites*. Please refer to Appendix C.

*The Dual Credit English Courses listed above pertain to sections offered only on the Elgin High School Campus. If English is taken at the ACC Campus or through ACC Distance Learning, Elgin High School students must take and successfully complete all four courses of ENGL 1301, 1302, 2327, and 2322 to receive high school graduation credit for English III and English IV.

**Dual credit offerings on the Elgin High School campus will be based on the availability of qualified instructors.

Appendix E

Elgin Early College and Career High School Course Offerings

EISD Course Number	EISD Course	ACC Course Number	ACC Course
8096	Strategies for College Success	PSYC 1300	Strategies for College Success
TBD	TBD	DRAM 1310	Introduction to Drama
8195	Dual Credit Professional Communication (Speech)	SPCH 1311	Introduction to Speech Communication
8197	Public Speaking I	SPCH 1315	Public Speaking
TBD	TBD	SPAN 1411	Spanish I
TBD	TBD	SPAN 1412	Spanish II
TBD	TBD	SPAN 2311	Spanish III
8191	Dual Credit Eng III A	ENGL 1301	English Composition I with American Literature
8192	Dual Credit Eng III B	ENGL 1302	English Composition II with American Literature
8491	Dual Credit Special Topics Social Studies	HIST 1301	US History I
8491	Dual Credit US History A,B	HIST 1302	US History II
8091	Dual Credit Sociology	SOCI 1301	Introduction to Sociology
8196	Dual Credit Eng IV AB	ENGL 2322	British Lit: Anglo-Saxon through 18th Century
8493	Dual Credit US Govt	GOVT 2305	US Government
8499	TBD	GOVT 2306	Texas State & Local Government
TBD	TBD	MATH 1342	Elementary Statistics
8090	Dual Credit Psych	PSYC 2301	Introduction to Psychology
TBD	TBD	ASTR 1403	Astronomy
TBD	TBD	ENVR 1301	Environmental Science
TBD	TBD	ECON 2301	Economics

*Course offerings are subject to change.

Appendix F
State Articulated Courses

<i>Must be taken in 11th or 12th grade, for 1.0 credit, and earn an 80 or Greater</i>			
8016	Advanced Welding	WLDG 1421 or WLDG 1521 or WLDG 1221 or WLDG 1222	Introduction to Welding Fundamentals, OR
		WLDG 1428 or WLDG 1528	Introduction to Shielded Metal Arc Welding
8005	Agricultural Mechanics & Metal Technology	DEMR 1301 or DEMR1401	Shop Safety and Procedures, OR
		WLDG 1421 or WLDG 1521	Welding Fundamentals, OR
		AGME 1314 or AGME 1415	Farm and Ranch Shop Skills I
8028	Business Management	BMGT 1327	Principles of Management
8007	Equine Science	AGEQ 1311 or AGEQ 1411	Equine Science I
8050	Law Enforcement I	CJSA 1308	Criminalistics I
8032	Principles of Business, Marketing, & Finance	BUSG 1301	Introduction to Business
8003	Advanced Plant and Soil Science	NUMBER	COURSE NAME
8067	Ag Power Systems (Small Engine Repair)	NUMBER	COURSE NAME
8008	Horticulture	NUMBER	COURSE NAME

*Articulated Courses are subject to change based on instructor approval and certification.

Appendix G

Locally Articulated Courses

<i>Must be taken all year for 1.0 credit and earn an 85 or Greater (*ACC=Austin Community College)</i>				
8023	Accounting I	ACC	ACNT 1403	Introduction to Accounting I
8019	Advanced Biotechnology	ACC	BITC 1411	Introduction to Biotechnology
8064	Audio Video Production	ACC	RTVB 1321	TV Field Production
8020	Automotive Technology	ACC	AUMT 1405	Introduction to Automotive Technology
8021	Advanced Automotive Technology	ACC	AUMT 1407	Automotive Electrical Systems
			AUMT 2417	Automotive Engine Performance Analysis, AND
			AUMT 1410	Automotive Brake Systems, AND
			AUMT 1416	Suspension & Steering
8061	Child Dev + Practicum in Education and Training	ACC	CDEC 1321	The Infant and the Toddler
8045	Digital & Interactive Media	ACC	ARTC 1402	Digital Imaging I
8059	Instructional Practices in Education and Training	ACC	CDEC 1311	Educating Young Children
8050 + 8051	Law Enforcement I AND II	Temple College	CJSA 1359	Police Systems & Practices
8063	Principles of Arts, Audio Video Technology and Communications	ACC	RTVB 1305	Introduction to Television Technology
8053	Principles of Law, Public Safety, Corrections & Security	Temple College	CJSA 1322	Introduction to Criminal Justice
8015	Welding	ACC	WLDG 1407	Introduction to Welding Using Multiple Processes
8016	Advanced Welding	ACC	WLDG 1421 or WLDG 1521 or WLDG 1221 or WLDG 1222	Introduction to Welding Fundamentals, OR
			WLDG 1428 or WLDG 1528	Introduction to Shielded Metal Arc Welding
8069	Engineer Your World		NUMBER	NUMBER

*Articulated Courses are subject to change based on instructor approval and certification. Periodically check Elgin website for updates to Articulated Courses.

Appendix H

Programs of Study

Clusters	Programs of Study <small>*Potential Certification and/or Certification Pathway</small>	Course Sequence
Business and Industry		
Agriculture	Texas Veterinary Medical Assistant Level 1*	Principles of Agriculture / Livestock – Small Animal Mgmt. / Veterinary Medical Applications / Advanced Animal Science
	Animal Services	Principles of Agriculture (Ag) / Equine or Livestock – Small Animal Mgmt. / Veterinary Medical Applications / Advanced Animal Science
	Power, Structural, Technological Systems	Principles of Ag / Ag Mechanics & Metals / Small Engine Tech / Advanced Small Engine Tech
	Power, Structural and Technological Systems: Advanced Systems	Principles of Agriculture or Concepts of Engineering / Ag Mechanics & Metals / Small Engine Tech / Advanced Small Engine Tech
	Power, Structural and Technological Systems	Concepts of Engineering / Welding / Advanced Welding / Practicum in Agriculture, Food and Natural Resources
	Plant Systems	1.) Principles of Ag / Floral Design / Horticulture / Advanced Plant & Soil Science 2.) Principles of Ag / Landscape / Horticulture / Advanced Plant & Soil Science 3.) Principles of Ag / Biotech / Adv. Biotech / Advanced Plant & Soil Science
	Food Systems	Principles of Ag / Food Technology / Food Processing / Practicum
Arts, Audio Visual Technology and Communications	Journalism	Principles of Art, A/V, Tech & Communication / Journalism or Yearbook I / Journalism or Yearbook II / Journalism or Yearbook III / Journalism or Yearbook IV
	Journalism and Broadcasting	Principles of Art, A/V, Tech & Communication / A/V Production & Journalism / Adv. A/V Production or Journalism II / Creative Writing or Journalism III or A/V Practicum
Business Management and Administration	Small Business Management*	Principles of Business, Marketing & Finance / Money Matters / Business Law / Entrepreneurship / Accounting / Business Mgmt.
English	Communications	Four English electives to included three levels in one of the following areas: Public Speaking, Debate, Advanced Broadcast Journalism, Newspaper, Yearbook
Finance	Financial Management, Accounting	Principles of Business, Marketing & Finance / Accounting I / Business Mgmt. / Accounting II
Information Technology	Programming and Software Development: Gaming	Principles of Information Technology Computer Programming / Advanced Computer Programming / AP or Dual Credit Computer Science
	Web and Digital Media	Principles of Info. Tech / Digital Interactive Media / Web Design / Research in Info. Technology
Manufacturing	Structural Welding	Principles of Manufacturing / Welding / Advanced Welding / Manufacturing Practicum
	Manufacturing Production Development	Concepts of Engineering / Engineering Your World / Engineering Math / Robotics
Marketing	Management and Entrepreneurship	Principles of Business, Marketing & Finance / Business Mgmt. /Advertising, Sales & Promotion – Entrepreneurship / Marketing Dynamics
	Marketing Pathway*	Principles of Business, Marketing & Finance / Advertising, Sales & Promotion – Business Law / Retailing and E-Tailing / Marketing Dynamics
	Marketing, Communications and Promotion	Principles of Business, Marketing & Finance / Advertising, Sales & Promotion – Entrepreneurship / Digital Interactive Media/ Marketing Dynamics or Practicum
	Marketing Information Management and Research	Principles of Business, Marketing & Finance / Business Mgmt. / Advertising, Sales & Promotion – Entrepreneurship / Marketing Dynamics or Practicum

Transportation, Distribution and Logistics	Automotive Facility and Maintenance	Principles of Transportation, Distribution and Logistics / Automotive Tech / Advanced Automotive Tech / Practicum of Transportation, Distribution and Logistics
	Small Engine Repair	Principles of Transportation, Distribution and Logistics/ Small Engine Technology/ Advanced Small Engine Technology/ Practicum of Transportation, Distribution and Logistics
Arts and Humanities		
Arts, Audio Visual Technology and Communications	Film / Video Production Pathway*	Principles of Art, A/V, Tech & Communication / A/V Production / Advanced A/V Production / A/V Practicum
	Performing Arts: Theatre	Prin. of Art, A/V, Tech & Comm. with Theatre I / Theatre II / Theater III / Theatre IV
	Performing Arts: Instrumental	Prin. of Art, A/V, Tech & Comm. with Band I / Band II / Band III / Band IV
	Performing Arts: Vocal	Prin. of Art, A/V, Tech & Communication with Choir I / Choir II / Choir III / Choir IV
	Visual Arts	Principles of Art, A/V, Tech & Communication with Art I / Art II / Art III / Art IV

Clusters	Programs of Study	Course Sequence
Public Service		
Education and Training	Teaching and Training	Principles of Education & Training / Child Development / Instructional Practice in Education & Training / Practicum in Education & Training
Law, Public Safety Corrections and Security	Law Enforcement Services	Principles of Law, Public Safety, Corrections & Security / Law Enforcement I / Forensic Science / Law Enforcement II
Government and Public Administration	Public Management	Principles of Government & Public Administration with NNDCC I / NNDCC II / NNDCC III / NNDCC IV &/or Dual Credit Psychology & Sociology
	Navy National Defense Cadet Corps./JROTC	Principles of Government & Public Administration with NNDCC I / NNDCC II / NNDCC III / NNDCC IV
Science, Technology, Engineering and Math (STEM) <i>Algebra II, Chemistry and Physics required</i>		
Math Cluster	Math	Algebra I / Algebra II / Geometry / any two math courses that have Algebra II as a prerequisite.
Science Cluster	<i>Science</i>	Biology/Chemistry/Physics/ and two of the following: Environmental Systems, AP Biology, AP Chemistry, AP Physics, Advance Animal Science, Advanced Plant & Soil Science, Anatomy and Physiology, Food Science, Forensic Science, Advanced Biotechnology, Dual Credit Engineer Your World
Math and Science Cluster	Math and Science	Algebra II / Chemistry /Physics/ and any three of the following: Environmental Systems, AP Biology, AP Chemistry, AP Physics, Advance Animal Science, Advanced Plant & Soil Science, Anatomy and Physiology, Food Science, Forensic Science, Advanced Biotechnology, Dual Credit Engineer Your World, or any math course that have Algebra II as a prerequisite..
Biotech Engineering Cluster	Biotech Engineering	Concepts of Engineering / Biotech / Advanced Biotech / Scientific Research & Design
Multidisciplinary		
Multidisciplinary Program of Study is a combination of various clusters to fit the student's interests. It prepares the student to successfully enter either the workforce or postsecondary education.		A. Four advanced courses from one endorsement area or among endorsement areas not in a coherent sequence
		B. Four credits in each of the four core subject areas to include English IV and Chemistry and/or Physics
		C. Four credits in AP, or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts

Course offerings will be contingent on student choice and teacher availability.