WESLACO INDEPENDENT SCHOOL DISTRICT

THE RIGHT CHOICE

SECONDARY SCHOOL INFORMATION CATALOG

For Students Entering High School in 2019-2020, 2020-2021, and 2021-2022

NOTE: Occasionally changes occur in course requirements due to action by the Texas Legislature and/or the Texas State Board of Education (SBOE). We will honor the changes from the state. If no changes occur, you will graduate with the course requirements in place when you entered your first year in high school.

Weslaco ISD School Board and Superintendent of Schools

Central Office and Campus Administration

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Daniel Budimir, Assistant Superintendent for School Leadership-Team Panther
Beatriz Solano, Assistant Superintendent for School Leadership-Team Wildcat
Eliza (Lisa) Gomez, Assistant Superintendent for Teaching, Learning, & Innovation
Dr. Cynthia F. Cid , Student Support Services Director
Sandra Avila, Career & Technical Education Director
Yvett Morales, Weslaco High School, Principal
Dr. David Gamboa, Weslaco East High School, Principal
Tina Wells, South Palm Gardens High School, Principal
Tina Wells , Weslaco 21st Century CTE ECHS, Principal
Roger Perez, Horton AEP, Principal

Message to Students:
The Secondary School Information Catalog was developed to assist in planning your high school program. Course offerings, including curriculum expectations and graduation requirements for various high school program options, are outlined in the catalog. Graduation requirements as well as your own individual needs should be considered as you select your semester and yearly courses. Select your courses carefully since schedule changes may be limited. The W.I.S.D. Board of Trustees, administrators, counselors and teachers want your high school experience to be rewarding and enjoyable.

FOR STUDENTS ENTERING THE 9th GRADE IN 2019-2020 AND THEREAFTER. IT IS IMPORTANT THAT THE STUDENT KEEP THIS CATALOG UNTIL GRADUATION.

Weslaco ISD does not discriminate on the basis of race, religion, color, national origin, sex, or disability in providing education services, activities, and programs, including vocational programs, in accordance with Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Educational Amendments of 1972; section 504 of the Rehabilitation Act of 1973, as amended.

NOTE: Occasionally changes occur in course requirements due to action by the Texas Legislature and/or the Texas State Board of Education (SBOE). We will honor the changes from the state. If no changes occur, you will graduate with the course requirements in place when you entered your first year in high school.

Parents and Students,

Weslaco ISD provides this graduation planning tool for parents and students to plan and prepare students for a successful four-year high school career. The district counselors and key graduation planning staff are available at each of the high schools to assist with the selection of an individual graduation program. Each graduation program is unique and is dependent on the student's abilities, interests and plans for future careers.

Weslaco ISD's academic counselors are committed to making a student's journey through high school as pleasant as possible. WISD offers a multitude of courses to accommodate all students and focuses on creating the pathways to learning that will prepare each student for the college and career of their choice. If changes affecting he graduation plan occur, our academic counselors will guide students on how to stay on track towards graduation. To minimize the impact of unforeseen change, we encourage all students to select a diverse and challenging academic program that prepares them for success beyond high school. The following pages contain information that is pertinent for planning student academic success and high school graduation.

The Weslaco Independent School District *Course Catalog* lists the courses that our high schools make available to students. It should be noted, however, that not all of the courses listed are scheduled every year. Since it is not economically feasible to schedule classes in which only a few students enroll, the class may not be offered for the current year or on all campuses. Sufficient number of student request for specific courses then become the determining factor as to whether or not a course is scheduled.

The Course Catalog is also available online. The Weslaco ISD Web site for the Course Catalog is as follows: www.wisd.us/

The Purpose of the Secondary School Information Catalog

The Secondary School Information Catalog contains important information for students on how they can be successful in middle and high school. The Catalog highlights WISD policies, rules and regulations that apply to secondary school students and it provided detailed information about the courses offered. Most importantly, the Catalog offers the information you will need to plan the course you will take the graduate from high school and be accepted and successful at the college you choose and in your desired career.

The Catalog has eight sections:

- General Information for all Secondary Schools;
- High School Graduation Requirements
- Testing Graduation Requirements
- Special Recognitions
- Credit Accrual Opportunities
- College Preparation Timeline
- High school course descriptions, and
- Career and Technical Education course descriptions

You should look ahead at the classes that are necessary to meet graduation requirements. Many of those classes have prerequisite courses that you must take in your freshmen, sophomore or junior year. If you get to your senior year without taking the prerequisites, you will not be able to take the higher level courses and possibly not have the credits you will need to graduate. So plan ahead! Your counselor and teachers can help you select the right classes to take so that you will be able to graduate well prepared for college and for the career of your choice.

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Sandra Cerda, Administrator

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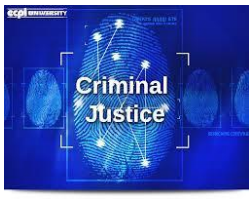

Law and Criminal Justice SLC

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Weslaco TSTEM Early College High School

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GEAR UP Program

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Weslaco EAST High School
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Dr. Raul Cantu, Principal
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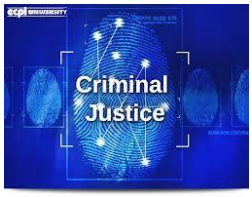
Carey Boleach, Head Counselor

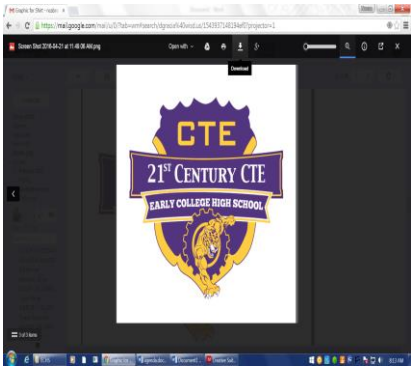
			
Health Science SLC Araceli Chavarin, Administrator Elvira Martinez, Counselor emartine@wisd.us 956.969.6950 X32211	**Technology and Media Communications SLC** Belen Torres, Administrator Carey Boleach, Counselor cboleach@wisd.us 956.969.6950 X36959	**Arts and Education SLC** Cindy Cid, Administrator Diana Reyna, Counselor dreyna@wisd.us 956.969.6950 X32218	**Design and Engineering SLC** Dr. Raul Cantu, Administrator Stephanie Inlow, Counselor sinlow@wisd.us 956.969.6950 X32233
			
Business and Finance SLC Lisse Krink, Administrator Nancy Ortiz, Counselor nortiz@wisd.us 956.969.6950 X32213	**Law and Criminal Justice SLC** Elias Garcia, Administrator Olga Garza, Counselor olgarza@wisd.us 956.969.6950 X32219	Zalinda Rodriguez, Social Worker 956.969.6950 X32221 zrodrigue@wisd.us	**Weslaco East Early College High School** Lisse Krink, Administrator Elvira Martinez, Counselor emartine@wisd.us 956.969.6950 X32211

Weslaco 21st Century CTE ECHS
700 S. Bridge Weslaco, Texas 78596
Marco Zamora, Principal
956.969.6742
Melinda Sosa Ortiz, Head Counselor

Associate of Applied Science in Diesel Technology

Associate of Applied Science in Advanced Manufacturing

Associate of Applied Science in Welding Applied Technology



South Palm Gardens High School
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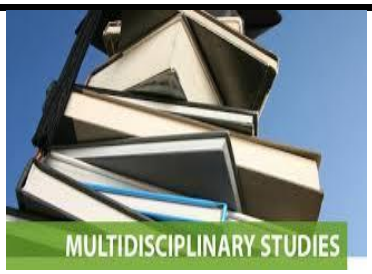
Tina Wells, Principal
956.969.6621
Cecilia Becerra, Head Counselor

ENDORSEMENT OPTIONS



STEM Science Endorsement	Multidisciplinary Studies/Foundation Endorsement	Arts & Humanities Endorsement
SOCIAL WORKERS CHANGE FUTURES **Social Worker** **956-969-6621** **Ext. 32005**	**Victoria Vasquez** **College Readiness** **956-969-6621** **Ext. 32018** 	

Contents

GENERAL INFORMATION FOR SECONDARY SCHOOL STUDENTS AND PARENTS

Success in Secondary School

Success in middle and high school requires planning and lots of hard work. This section of the Secondary School Information Catalog is intended to answer many of the questions student, their parents have about planning for graduation and the rules, and procedures for WISD follow.

Academic and Career Planning at WISD

Academic and career planning is an ongoing process for students at WISD. Counselors or CTE teachers present guidance and career-planning activities to students in grades 6-11. Each student develops a Personal Graduation Plan (PGP) annually.

The PGP is a planning process created by the student, in conjunction with the counselor and parent(s) to note current career interests, postsecondary goals, and courses they plan to take to meet graduation requirements.

In middle school, students utilize a web-based career interest program to identify career interests. Students learn about careers, post-secondary education, and begin to plan their high school courses.

In high school, students are part of a Small Learning Community (SLC) at WEHS or WHS. These SLC's offer a list of pathways that are aligned to state endorsements.

Campus	House Teams	Administrator/Counselor
Weslaco High School	Health Sciences	Yvett Morales/J.L. Baron
Weslaco High School	Media Technology	Melissa Rodriguez/Patricia Gonzales
Weslaco High School	Fine Arts	Celica Pena/Krystal Munoz
Weslaco High School	Weslaco ECHS	Mischelle King/Eunice Leija
Weslaco High School	Design and Engineering	Lisa McCandless/Rosana Olivarez
Weslaco High School	Business and Finance	Andres Garcia/Caridad Salinas
Weslaco High School	Law and Criminal Justice	Dr. Joel Nava/Laura Villarreal

Weslaco East High School	Technology & Media	Belen Torres/Armando Gonzalez
Weslaco East High School	Arts and Education	Araceli Chavarin/Diana Reyna
Weslaco East High School	Design and Engineering	Danny Reyna/Zaida Rodriguez
Weslaco East High School	ECHS	Lisse Krink/Elvira Martinez
Weslaco East High School	Business and Finance SLC	Cindy Cid/Nancy Ortiz
Weslaco East High School	Law and Criminal Justice SLC	Elisa Garcia/Olga Garza

Parental Involvement

Parents play an influential role in helping their son or daughter plan, prepare and develop postsecondary and career plans. Parents should:

- Review this guide and materials they receive at school and discuss with their student.
- Learn graduation plan requirements and be sure that the student meets them.
- Encourage students to take foreign language courses and other courses needed for Texas Education Agency Foundation with Endorsement and Distinguished Level of Achievement Plans.
- Encourage students to take rigorous courses that will help them prepare for college/university.
- Encourage students to take Advanced Placement or Dual Enrollment courses to earn college credit while still in high school.
- Help students learn about colleges and careers that interest them.
- Review the results of your students' work. Keep in contact with your son/daughter's assigned counselor.

Transcripts

A transcript is the official record of your high school courses. It includes grades and testing such as ACT, SAT, STAAR, AP, etc. Sources of those grades include:

- all courses and grades obtained at a high school campus in Weslaco
- all courses and grades obtained at a middle school for high school credit.
- transfer grades for any other in school in the United States
- bi-national transfer grades from another country for recent immigrants or foreign exchange students.

The transcript will show a seal of the plan under which the student graduated (Foundation, Foundation with Endorsements, or Distinguished Level of Achievement). This seal will be placed on the transcript once requirements have been met and the student has graduated.

Students may request official or unofficial transcripts. Official transcripts will be sent directly to another school, college, university, or employer and marked with the school seal via Texas Records Exchange (TREx). The Texas Records Exchange (TREx) system is a web-based software application designed for the exchange of electronic student records as mandated by the 79th Legislature, 3rd Called Session, 2006 (House Bill 1). By using the TREx application, school registrars have the ability to electronically request and receive student records for students who have attended or will be attending Texas public schools. High school registrars and counselors also have the ability to electronically create and send official student transcripts to Texas public colleges and universities using TREx. Unofficial transcripts will be issued to the student.

Extracurricular Activities and University Interscholastic League (UIL)

Extracurricular Activities and University Interscholastic League (UIL) Activities that support course work include, but are not limited to the following: language clubs, journalism, debate, theatre arts, band, orchestra, choir, and career clubs. Student athletes can further their development by participating in University Interscholastic League (UIL) sports. For high school: football, volleyball, cross-country, golf, tennis, swimming, basketball, baseball, softball, wrestling, soccer, boys and girls powerlifting, and track and field. For middle school: football, volleyball, basketball, track and field, soccer, baseball, softball and tennis. Sixth grade students cannot participate in UIL activities.

A student must be enrolled for at least four hours per day to be considered in membership for one full day (19 TAC §129.21 [h]). The classes in which the student is enrolled for the four hours may be for either state approved or local credit. Students who are in classes more than four hours some days and less than four hours on other days are considered to be “full-time” if they spend an average of four hours per day in class for a five day school week (i.e. Block Schedules, Dual Credit, etc.)

High school athletes need to be aware of the National Collegiate Athletic Association (NCAA) academic guidelines and requirements throughout their high school career (9-12) if they plan to participate in college sports. Beginning in the junior year, important information needs to be submitted to the NCAA Eligibility Center. For more information visit the NCAA website at www.eligibilitycenter.org, or contact your coach, counselor or registrar for specific information.

COLLEGE READINESS

Students Success Initiative

Enacted by the 76th Texas Legislature (1999), the Student Success Initiative (SSI) mandated the following passing standards: reading and mathematics tests at Grade 5, and reading and mathematics tests at Grade 8. As specified by these requirements, a student may advance to the next grade level only by passing these tests or by unanimous

decision of his or her GRADE committee that the student is likely to perform at grade level after accelerated instruction. The goal of the SSI is to support on grade level academic achievement for every student.

Students in grades 5-8 who fail any state required assessment may be required to complete accelerated instruction in the subject not passed as a condition of promotion. If a campus or GRADE committee requires accelerated instruction, the student shall not be promoted unless the student completes the required accelerated instruction

What is the TSI Assessment?

The Texas Success Initiative (TSI) Assessment is a program designed to help your institution determine if you are ready for college-level course work in the general areas of reading, writing and mathematics. This program will help determine what type of course or intervention will best meet your needs to help you become better prepared for college-level course work if you are not ready.

If you are an incoming college student in Texas, you are required to take the TSI Assessment — unless you are already exempt (read below) — to determine your readiness for college-level work. Based on how you perform, you may either be enrolled in a college-level course that matches your skill level or be placed in the appropriate developmental course or intervention to improve your skills and prepare you for success in college-level courses.

Some students are EXEMPT from the TSI exam, provided they meet the following criteria:

- PSAT: Combined score of 107, Critical Reading 50 and Math 50 (*PSAT exemption is used for DUAL CREDIT purposes only.)
- ACT: Composite scores of 23, English 19, Math 19
- SAT: Combined scores of 1070, Critical Reading 500 and Math 500
- TSI: Math 350, Reading 351, Essay score 5 OR Math 350, Reading 363, Essay score 4

(Exemption criteria may change due to legislative updates. Please refer to the latest legislative updates for most recent exemption criteria)

Why should it matter to me?

Upon high school graduation, students must meet the college readiness standard or they will be required to pay for developmental classes at the college they are attending. These classes will cost time and money and will not count towards your child's degree.

College University Testing

Post-secondary institutions require specific tests for admissions. Students should be aware of the following tests:

Preliminary Scholastic Aptitude Test (PSAT)

The Preliminary SAT is the practice test for the SAT I. This test may be taken during the fall of the student's 10th grade to allow him or her to become more comfortable with taking standardized tests. Students are encouraged to take the PSAT again during their 11th grade year to allow them an opportunity to qualify for the National Merit Scholarship Program and the National Hispanic Scholar Recognition Program. The PSAT includes a writing skills section, verbal reasoning and mathematics reasoning. Visit www.collegebaord.org for more information.

Armed Services Vocational Aptitude Battery (ASVAB)

The Armed Services Vocational Aptitude Battery is a multi-aptitude battery of tests that assist the student in better understanding how they compare to a nationally representative group of comparable individuals on skills important to their future training and job performance. This test is recommended for students interested in a military career and should be taken during the 11th or 12th grade year.

American College Testing (ACT)

The ACT is a test designed to assess high school students' general educational development and their ability to complete college level work. The test covers four skill areas: English, mathematics, reading and science reasoning. Students are encouraged to take the test during the spring of their 11th grade year or the fall of their 12th grade year. Visit www.act.org for more information.

Scholastic Aptitude Test (SAT)

The SAT is a test that measures developed verbal and mathematical reasoning abilities as they relate to successful performance in college. Students are encouraged to take this test in the spring of their 11th grade year or in the fall of their 12th grade year. Students should be aware of specific college test requirements when deciding which tests is necessary. Visit www.collegeboard.com for more information.

Students may access test information, registration materials and deadlines by:

- visiting with their counselor
- picking up a registration packet at the Career Center/Go Center; or
- visiting the website for each test.

GRADUATION CEREMONIES

A student who completes all graduation requirements except for required end-of-course assessment instruments may be issued a certificate of coursework completion. The District may allow a student who receives a certificate of coursework completion to participate in a graduation ceremony with students receiving high school diplomas [see FMH (LEGAL)

MIDDLE SCHOOL GRADE PROMOTION

To be promoted from one grade to the next, a middle school student must:

- Have an overall grade average of 70
- Attain an average of 70 or above in three of the following subjects: language arts, mathematics, social studies and science

HIGH SCHOOL GRADE CLASSIFICATION

9th grade requires completion and promotion of 8th grade and 0-6.5 credits.
10th grade requires completion of a minimum of 7.0 credits up to 13.5 credits.
11th grade requires completion of a minimum of 14 credits up to 20 credits.
12th grade requires completion of a minimum of 21 credits and above

THREE-YEAR GRADUATES

A parent is entitled to request, with the expectation that the request will not be unreasonably denied, that the student be permitted to graduate from high school earlier than the student would normally graduate, if the student completes all required course and exit-level assessment requirements for graduation. Students seeking graduation in fewer than 4 years should see their school counselor or registrar to obtain an early graduation intent form. Prior to grade level reclassification to grade 12 the student must:

- Meet the minimum credit requirements for grade level reclassification
- Show evidence of course completion probability for their intended graduation plan
- Submit a completed early graduation intent form with required signatures.

Grade point averages for a student who completes the high school program requirements in fewer than four years shall be ranked with the class in which he or she actually graduates.

HIGH SCHOOL GRADUATION REQUIREMENTS

Weslaco Independent School District's curriculum is designed to meet the needs of students preparing for college, careers and citizenship in the community. WISD offers a full range of courses, advanced academic courses, and a comprehensive array of Career and Technical Education programs. All WISD students are expected to prepare for both college and careers.

In addition to the core academic programs, each high school also offers a variety of extracurricular and co-curricular programs for students. High school students can perform in a marching band, star in a dramatic production, participate in Folklorico dancing, or edit a newspaper. They can compete in volleyball or football, or any of a dozen other sports, and every campus has numerous clubs and organizations students can join for fun and education.

Browse through the course offerings in this guide to identify electives or programs that interest you. Counselors are available to help students identify courses to take, but students should discuss their goals and interests with parents as well. Students and their families should explore the many college scholarship opportunities available to successful high school students. Scholarship information is provided to eleventh and twelfth grade students. See your counselor for scholarship information.

All Weslaco ISD high school students have the opportunity to focus their high school elective course choices in a field of interest. The sixteen clusters are used to organize available electives into manageable college/career focus areas called Programs of Study.

Programs of Study include a sequence of courses (3 or more) within a cluster. Each Program of Study will have a series of three or more courses that will move a student from a beginning introductory course to two or more increasingly advanced courses. All Programs of Study start with the graduation program with a focus on the use of electives in a coherent sequence to build student skills in an area of interest. The selection of a program of study is based upon individual interest and aptitude.

Following are the clusters available in WISD.

- Agriculture, Food, & Natural Resources
- Architecture & Construction
- Arts, AV & Communication
- Business Management & Administration
- Education & Training
- Finance
- Health Science
- Hospitality & Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections & Security
- Manufacturing
- Marketing
- Science, Technology, Engineering & Mathematics
- Transportation, Distribution, & Logistics

Students are urged to take the courses in a coherent sequence to maximize the effectiveness of the learning and to meet the graduation endorsement requirement. In many Programs of Study, college articulated credit is dependent on following the correct sequence of courses. Teachers and counselors will be glad to help students review interests and skills to help students determine what program of study to choose.
Please check with your counselor for the specific list of programs of study available at your campus.

GRADUATION PROGRAMS

A new, more flexible graduation program that allows students to pursue their interests is in place for all students who entered high school beginning in the 2014-2015 school year.

This new graduation program includes four parts:

- A 23-credit foundation program which is the core of the new Texas high school diploma
- Five endorsement options that allow students to focus on a related series of courses
- A higher performance category called Distinguished Level of Achievement
- Performance Acknowledgments that note outstanding achievement

All incoming 2014-15 9th graders and thereafter, will be enrolled under the Distinguished Level of Achievement and must declare an Endorsement. Endorsements consist of a related series of courses that are grouped together by interest or skill set. They provide students with in-depth knowledge of a subject area. Students can choose from five endorsement areas:

- Science, Technology, Engineering and Math (STEM);
- Business and Industry;
- Public Service;
- Arts and Humanities; or
- Multidisciplinary Studies.

Please note that while all five endorsements may be offered on your campus, not all college and career pathways may be available. Students who entered 9th grade before 2014-2015 are expected to pursue the Texas Education Agency (TEA) Recommended High School Program, which requires a minimum of 27 credits for graduation, or the Distinguished Achievement High School Program, which requires 27 credits including three years of Language Other Than English, plus advanced measures.

All students must take required English, mathematics, science and social studies courses in the year they enter high school, and they must continue those courses annually until all requirements are met. Students who enrolled in grade 9 prior to the 2014-2015 school

year may elect to shift to the prescribed foundation high school program with the distinguished level of achievement. Contact your school counselor about options related to shifting to the foundation high school program, or any available graduation plan.

GRADUATION PLANS

Students entering 9th grade in school year 2014-2015 and beyond, plus those students who have chosen to shift from their original graduation program (the Distinguished Level of Achievement High School Program, the Recommended High School Program, or the Minimum High School Program), can graduate under one of the graduation programs outlined below. WISD Board of Trustees approved changes to graduation program requirements for the incoming 9th grade class of 2014-2015, as allowed by the State Board of Education.

FINANCIAL AID

Federal Student Aid is responsible for managing the student financial assistance programs authorized under Title IV of the Higher Education Act of 1965. These programs provide grants, loans, and work-study funds to students attending college or career school. They ensure students and their families can benefit from these programs by

- informing students and families about the availability of the *federal student aid programs* and the process for applying for and receiving aid from those programs;
- developing the *Free Application for Federal Student Aid* (*FAFSA*®);
- accurately disbursing, reconciling, and accounting for all federal student aid funds that are delivered to students each year through more than 6,200 colleges and career schools;
- managing the outstanding *federal student loan* portfolio and securing repayment from federal student loan borrowers;
- providing oversight and monitoring of all program participants—schools, financial entities, and students— to ensure compliance with the laws, regulations, and policies governing the federal student aid programs

Financial Aid for post-secondary education is available for students who qualify. Students must fill out the Free Applications for Federal Student Aid (FASFA) during their senior year.

Federal regulations mandate that a student receiving financial assistance under Title IV programs maintain satisfactory academic progress in his/her course of study, regardless of whether or not financial aid is awarded for the semester enrolled. All students, including dual enrollment students must adhere to the Student Academic Progress policy to be eligible for financial aid upon enrolling as an entering college freshmen. The requirements of the policy mandate the following:

- Maintain an overall 2.0 Grade Point Average
- Complete 67% of courses attempted, cumulatively

- Graduate within the maximum time frame allowed for the student's course of study

TESTING GRADUATION REQUIREMENTS

STATE of TEXAS ASSESSMENT for ACADEMIC READINESS (STAAR)
Testing Requirements for High School Graduation

The State Assessment for Academic Readiness (STAAR) is the new statewide assessment for students who entered high school in 2011-2012 or thereafter. Students will take the STAAR beginning in the spring of their 9th grade year and are required to pass the 5 assessments if they are graduating under the Foundation Plan, Foundation with Endorsement Plan, or the Distinguished Level of Achievement Plan.

SUBJECT	FOUNDATION PLAN 5 EOCs REQUIRED	FOUNDATION PLAN with Endorsement(s) 5 EOCs REQUIRED	DISTINGUISHED LEVEL OF ACHIEVEMENT 5 EOCS REQUIRED
English I	**X**	**X**	**X**
English II	**X**	**X**	**X**
Algebra I	**X**	**X**	**X**
US History	**X**	**X**	**X**
Biology	**X**	**X**	**X**

High School Personal Graduation Plan (PGP)

WISD academic counselors have been designated by the school principal to review personal graduation plan options with each student entering grade nine together with the student's parent or guardian. The personal graduation plan options include the distinguished level of achievement and the five endorsements. Before the conclusion of the school year, the student and the student's parent or guardian must confirm and sign a personal graduation plan for the student and the student's parent or guardian must confirm and sign a personal graduation plan for the student that identifies a course of study and promotes college and workforce readiness, career placement and advancement, and facilitates the student's transition from secondary to postsecondary education. A student may amend his/her graduation plan after the initial confirmation. The school will send a written notice to the student's parent/guardian regarding the change.

Classification of Students Entering from Outside of the District

Grade Level Placement

Students entering the District from an accredited public, private, or parochial school shall provide evidence of prior schooling outside the District and shall be placed initially at the grade level reached elsewhere. For students in grades 9-12, grade level initial placement will be based upon the number of current credits earned in the sending district and the student's original year of entry to 9th grade. "Accredited" is defined as accreditation by the Texas Education Agency (TEA), an equivalent agency from another state, or an accrediting association recognized by the Commissioner of Education. (FD Local Policy)

A student entering the District from a non-accredited public, private, or parochial school, including home schools, shall be placed initially at the discretion of the principal, pending observation by classroom teachers, guidance personnel, and the principal (FD Local Policy). Criteria for placement may include:

- Scores on achievement tests, which may be administered by appropriate District personnel.
- Recommendation of the sending school.
- Prior academic record.
- Chronological age and social and emotional development of the student.
- Other criteria deemed appropriate by the principal.

WESLACO ISD GRADUATION REQUIREMENTS **For students entering 9th grade in 2014-2015 and thereafter.**			
DISCIPLINE	**FOUNDATION PLAN** **23 credits**	**FOUNDATION PLAN with ENDORSEMENTS** **27 credits**	**DISTINGUISHED LEVEL ACHIEVEMENT PLAN** **27 credits**
ELA	**4 credits:** English I, English II, English III Advanced English The final credit may be selected from one full credit or a combination of two half credits from two different courses from the following courses after the completion of English I, II, and III: ● English IV; ● Independent Study in English; ● Literary Genres; ● Creative Writing; ● Research and Technical Writing; ● Humanities; ● Public Speaking III; ● Communication Application (0.5 credit) ● Oral Interpretation III; ● Debate III; ● Independent Study in Speech; ● Independent Study in Journalism; ● Advanced Broadcast Journalism III; ● Advanced Journalism: Newspaper III; ● Advanced Journalism: Yearbook III; ● AP English Literature or Composition; ● Business English ● English College Prep Students with limited English proficiency, who are at the beginning or intermediate level of English Language proficiency, may satisfy the English I and English II graduation requirements by successfully completing English I for Speakers of Other Languages (ESOL I) and English II for Speakers of Other Languages (ESOL II). Students may combine half a credit of English I with half a credit of ESOL I to satisfy the English I graduation requirement. Same applies to the combination of English II and ESOL II. Although these courses are EOC courses, the TEKS for these are identical, which allow the combining of English I with ESOL I and/or English II with ESOL II.	**4 credits:** English I, English II, English III Advanced English The final credit may be selected from one full credit or a combination of two half credits from two different courses from the following courses after the completion of English I, II, and III: ● English IV; ● Independent Study in English; ● Literary Genres; ● Creative Writing; ● Research and Technical Writing; ● Humanities; ● Public Speaking III; ● Communication Application (0.5 credit) ● Oral Interpretation III; ● Debate III; ● Independent Study in Speech; ● Independent Study in Journalism; ● Advanced Broadcast Journalism III; ● Advanced Journalism: Newspaper III; ● Advanced Journalism: Yearbook III; ● AP English Literature and Composition; ● Business English ● English College Prep Students with limited English proficiency, who are at the beginning or intermediate level of English Language proficiency, may satisfy the English I and English II graduation requirements by successfully completing English I for Speakers of Other Languages (ESOL I) and English II for Speakers of Other Languages (ESOL II). Students may combine half a credit of English I with half a credit of ESOL I to satisfy the English I graduation requirement. Same applies to the combination of English II and ESOL II. Although these courses are EOC courses, the TEKS for these are identical, which allow the combining of English I with ESOL I and/or English II with ESOL II.	**4 credits:** English I, English II, English III Advanced English The final credit may be selected from one full credit or a combination of two half credits from two different courses from the following courses after the completion of English I, II, and III: ● English IV; ● Independent Study in English; ● Literary Genres; ● Creative Writing; ● Research and Technical Writing; ● Humanities; ● Public Speaking III; ● Communication Application (0.5 credit) ● Oral Interpretation III; ● Debate III; ● Independent Study in Speech; ● Independent Study in Journalism; ● Advanced Broadcast Journalism III; ● Advanced Journalism: Newspaper III; ● Advanced Journalism: Yearbook III; ● AP English Literature and Composition; ● Business English ● English College Prep Students with limited English proficiency, who are at the beginning or intermediate level of English Language proficiency, may satisfy the English I and English II graduation requirements by successfully completing English I for Speakers of Other Languages (ESOL I) and English II for Speakers of Other Languages (ESOL II). Students may combine half a credit of English I with half a credit of ESOL I to satisfy the English I graduation requirement. Same applies to the combination of English II and ESOL II. Although these courses are EOC courses, the TEKS for these are identical, which allow the combining of English I with ESOL I and/or English II with ESOL II.
	Total ELA Credits 4.0	**Total ELA Credits 4.0**	**Total ELA Credits 4.0**

MATH	**3 credits:** Two of the credits must consist of: ● Alg. 1 ● Geometry The additional credit can be from Group A or Group B. **Group A** Additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses • Mathematical Models with Applications; • Mathematical application in Agriculture, Food, and Natural Resources; • Digital Electronics; • Robotics Programming and Design • Financial Mathematics **Group B** The additional credit may be selected from on full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: • Algebra II; • Pre-calculus; • Advanced Quantitative Reasoning; • Independent Study in Mathematics; • Discrete Mathematics for Problem Solving; • Algebraic Reasoning; • Statistics; • AP Statistics; • AP Calculus AB; • AP Calculus BC; • AP Computer Science; • Engineering Mathematics; • Statistics and Risk Management; • Discrete Mathematics for Computer Science;	**3 credits:** Credits must consist of: ● Alg. 1 ● Geometry ● Algebra II The additional credits must be from Group B. **Group B** The additional credit may be selected from on full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: • Pre-calculus; • Advanced Quantitative Reasoning; • Independent Study in Mathematics; • Discrete Mathematics for Problem Solving; • Algebraic Reasoning; • Statistics; • AP Statistics; • AP Calculus AB; • AP Calculus BC; • AP Computer Science; • Engineering Mathematics; • Statistics and Risk Management; • Discrete Mathematics for Computer Science;	**3 credits:** Two of the credits must consist of: ● Alg. 1 ● Geometry ● Alg. II The additional credits must be from Group B. **Group B** The additional credit may be selected from on full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: • Pre-calculus; • Advanced Quantitative Reasoning; • Independent Study in Mathematics; • Discrete Mathematics for Problem Solving; • Algebraic Reasoning; • Statistics; • AP Statistics; • AP Calculus AB; • AP Calculus BC; • AP Computer Science; • Engineering Mathematics; • Statistics and Risk Management; • Discrete Mathematics for Computer Science;
	Total Math Credits 3.0	**Total Math Credits 4.0**	**Total Math Credits 4.0**

SCIENCE	**3 credits**: One credit must be selected from the following courses : ● Biology I or Biology AP ● Advanced Sciences from Group A or Group B **Group A** One credit must be selected from the following laboratory based courses: • Integrated Physics and Chemistry; • Chemistry; • AP Chemistry; • Physics; • Principles of Technology*; and • AP Physics 1: Algebra-Based; **Group B** The additional credit may be selected from one full credit or a combination of two half credits, subject to prerequisite requirements, from the following laboratory-based courses: • Chemistry; • Physics; • Aquatic Science; • Astronomy; • Earth and Space Science; • Environmental Systems; • AP Biology; • AP Chemistry; • AP Physics 1: Algebra-Based; • AP Physics 2: Algebra-Based; • AP Physics C; • AP Environmental Science; • Advanced Animal Science; • Advanced Plant and Soil Science; • Anatomy and Physiology; • Medical Microbiology; • Pathophysiology; • Food Science; • Forensic Science; • Advanced Biotechnology; • Principles of Technology*; • Scientific Research and Design; • Engineering Design and Problem Solving; • Principles of Engineering *One science credit may be earned for either Principles of Technology or Physics	**3 credits**: One credit must be selected from the following courses: ● Biology I or Biology AP ● Advanced Sciences from Group B **Group B** The additional credit may be selected from one full credit or a combination of two half credits, subject to prerequisite requirements, from the following laboratory-based courses: • Chemistry; • Physics; • Aquatic Science; • Astronomy; • Earth and Space Science; • Environmental Systems; • AP Biology; • AP Chemistry; • AP Physics 1: Algebra-Based; • AP Physics 2: Algebra-Based; • AP Physics C; • AP Environmental Science; • Advanced Animal Science; • Advanced Plant and Soil Science; • Anatomy and Physiology; • Medical Microbiology; • Pathophysiology; • Food Science; • Forensic Science; • Advanced Biotechnology; • Principles of Technology*; • Scientific Research and Design; • Engineering Design and Problem Solving; • Principles of Engineering *One science credit may be earned for either Principles of Technology or Physics Note: Only students pursing the Arts & Humanities endorsement are allowed substitutions for the 4th science credit. However, students who elect to satisfy the 4th science credit with a substitution course are not eligible for the FHSP Distinguished Level of Achievement	**3 credits**: One credit must be selected from the following courses: ● Biology I or Biology AP ● Advanced Sciences from Group B **Group B** The additional credit may be selected from one full credit or a combination of two half credits, subject to prerequisite requirements, from the following laboratory-based courses: • Chemistry; • Physics; • Aquatic Science; • Astronomy; • Earth and Space Science; • Environmental Systems; • AP Biology; • AP Chemistry; • AP Physics 1: Algebra-Based; • AP Physics 2: Algebra-Based; • AP Physics C; • AP Environmental Science; • Advanced Animal Science; • Advanced Plant and Soil Science; • Anatomy and Physiology; • Medical Microbiology; • Pathophysiology; • Food Science; • Forensic Science; • Advanced Biotechnology; • Principles of Technology*; • Scientific Research and Design; • Engineering Design and Problem Solving; • Principles of Engineering *One science credit may be earned for either Principles of Technology or Physics Note: Only students pursing the Arts & Humanities endorsement are allowed substitutions for the 4th science credit. However, students who elect to satisfy the 4th science credit with a substitution course are not eligible for the FHSP Distinguished Level of Achievement
	Total Science Credits 3.0	**Total Science Credits 4.0**	**Total Science Credits 4.0**
Social Studies *	**3 credit** World History or World History AP (1credit) (9th Grade) Two credits **must** consist of the following: ● U.S. History or US History AP (10th Grade) ● U.S. Govt. or US Govt. AP (½ credit) ● Economics or Economics AP (½ credit)	**3 credits:** World History or World History AP (1credit) (9th Grade) Two credits **must** consist of the following: ● U.S. History or US History AP (10th Grade) ● U.S. Govt. or US Govt. AP (½ credit) ● Economics or Economics AP (½ credit)	**3 credits:** World History or World History AP (1credit) (9th Grade) Two credits **must** consist of the following: ● U.S. History or US History AP (10th Grade) ● U.S. Govt. or US Govt. AP (½ credit) ● Economics or Economics AP (½ credit)

	Additional credits may be selected from the list below: ● World Geography ● Special Topics ● European History AP	Additional credits may be selected from the list below: ● World Geography ● Special Topics ● European History AP	Additional credits may be selected from the list below: ● World Geography ● Special Topics ● European History AP
	Total SS Credits 3.0	**Total SS Credits 3.0**	**Total SS Credits 3.0**
LOTE	**2 credits:** The credits may be selected from the following: • any two levels in the same language; or • two credits in computer programming languages selected from Computer Science I, II, and III If a student, in completing the first credit of LOTE, demonstrates that the student is unlikely to be able to complete the second credit, as agreed upon by the teacher of the first LOTE credit, the principal, or designee, the student's parent or person standing in parental relation, the student's ARD committee, or committee established for the student under Section 504, Rehabilitation Act of 1973, the student may substitute another appropriate course as follows: • Special Topics in Language and Culture; • World History Studies or World Geography Studies for a student who is not required to complete both by the local district; • Another credit from LOTE • computer programming languages A student, who due to a disability, is unable to complete two credits in the same language in a language other than English**, may do so by one of the following options: • Substitute a combination of two credits from the following core courses, but courses that satisfy FHSP requirements cannot be used to satisfy LOTE substitutions: ● English Language Arts ● Mathematics ● Science ● Social Studies OR • Complete two credits in career and technical education (CTE) OR • Complete two credits in technology applications **The determination to complete the LOTE credit requirements, will be made by: • The students ARD committee if the student receives special education services; OR • The committee established for the student under Section 504, Rehabilitation Act of 1973.	**2 credits:** The credits may be selected from the following: • any two levels in the same language; or • two credits in computer programming languages selected from Computer Science I, II, and III If a student, in completing the first credit of LOTE, demonstrates that the student is unlikely to be able to complete the second credit, as agreed upon by the teacher of the first LOTE credit, the principal, or designee, the student's parent or person standing in parental relation, the student's ARD committee, or committee established for the student under Section 504, Rehabilitation Act of 1973, the student may substitute another appropriate course as follows: • Special Topics in Language and Culture; • World History Studies or World Geography Studies for a student who is not required to complete both by the local district; • Another credit from LOTE • computer programming languages A student, who due to a disability, is unable to complete two credits in the same language in a language other than English**, may do so by one of the following options: • Substitute a combination of two credits from the following core courses, but courses that satisfy FHSP requirements cannot be used to satisfy LOTE substitutions: ● English Language Arts ● Mathematics ● Science ● Social Studies OR • Complete two credits in career and technical education (CTE) OR • Complete two credits in technology applications **The determination to complete the LOTE credit requirements, will be made by: • The students ARD committee if the student receives special education services; OR • The committee established for the student under Section 504, Rehabilitation Act of 1973.	**2 credits:** The credits may be selected from the following: • any two levels in the same language; or • two credits in computer programming languages selected from Computer Science I, II, and III If a student, in completing the first credit of LOTE, demonstrates that the student is unlikely to be able to complete the second credit, as agreed upon by the teacher of the first LOTE credit, the principal, or designee, the student's parent or person standing in parental relation, the student's ARD committee, or committee established for the student under Section 504, Rehabilitation Act of 1973, the student may substitute another appropriate course as follows: • Special Topics in Language and Culture; • World History Studies or World Geography Studies for a student who is not required to complete both by the local district; • Another credit from LOTE • computer programming languages A student, who due to a disability, is unable to complete two credits in the same language in a language other than English**, may do so by one of the following options: • Substitute a combination of two credits from the following core courses, but courses that satisfy FHSP requirements cannot be used to satisfy LOTE substitutions: ● English Language Arts ● Mathematics ● Science ● Social Studies OR • Complete two credits in career and technical education (CTE) OR • Complete two credits in technology applications **The determination to complete the LOTE credit requirements, will be made by: • The students ARD committee if the student receives special education services; OR • The committee established for the student under Section 504, Rehabilitation Act of 1973.
	Total LOTE Credits 2.0	**Total LOTE Credits 2.0**	**Total LOTE Credits 2.0**
Physical Ed	The required credit may be selected from any combination of the following one-half to one credit courses: • Aerobic Activities; • Team Sports; • Individual Sports • Aerobic Dance • Foundations of Personal Fitness (0.5 credits) Note: Credit may not be earned for any TEKS-based course more than once. No more than four PE credits may be earned through general PE.	The required credit may be selected from any combination of the following one-half to one credit courses: • Aerobic Activities; • Team Sports; • Individual Sports • Aerobic Dance • Foundations of Personal Fitness (0.5 credits) Note: Credit may not be earned for any TEKS-based course more than once. No more than four PE credits may be earned through general PE.	The required credit may be selected from any combination of the following one-half to one credit courses: • Aerobic Activities; • Team Sports; • Individual Sports • Aerobic Dance • Foundations of Personal Fitness (0.5 credits) Note: Credit may not be earned for any TEKS-based course more than once. No more than four PE credits may be earned through general PE.

	Students may substitute certain physical activities for required credits of PE: • Athletics (up to 4 credits) • JROTC (up to 1.0 state credit) • Approved private/commercially-sponsored physical activity programs conducted on or off campus (up to 4 credits for Category 1 and up to 1 credit for Category 2) • Drill Team (Fall and Spring) (1.0 state credit) • Marching Band (Fall only) (1.0 state credit) • Cheerleading (Fall and Spring) (1.0 state credit) • Career & Technical Education work-based training course successfully completed prior to 2011-2012 school year (2-3 credits). Note: All allowed substitution activities must include at least 100 minutes per 5-day week of moderate to vigorous physical activity. No more than four PE credits may be earned through any combination of general PE or PE substitutions.	Students may substitute certain physical activities for required credits of PE: • Athletics (up to 4 credits) • JROTC (up to 1.0 state credit) • Approved private/commercially-sponsored physical activity programs conducted on or off campus (up to 4 credits for Category 1 and up to 1 credit for Category 2) • Drill Team (Fall and Spring) (1.0 state credit) • Marching Band (Fall only) (1.0 state credit) • Cheerleading (Fall and Spring) (1.0 state credit) • Career & Technical Education work-based training course successfully completed prior to 2011-2012 school year (2-3 credits). Note: All allowed substitution activities must include at least 100 minutes per 5-day week of moderate to vigorous physical activity. No more than four PE credits may be earned through any combination of general PE or PE substitutions.	Students may substitute certain physical activities for required credits of PE: • Athletics (up to 4 credits) • JROTC (up to 1.0 state credit) • Approved private/commercially-sponsored physical activity programs conducted on or off campus (up to 4 credits for Category 1 and up to 1 credit for Category 2) • Drill Team (Fall and Spring) (1.0 state credit) • Marching Band (Fall only) (1.0 state credit) • Cheerleading (Fall and Spring) (1.0 state credit) • Career & Technical Education work-based training course successfully completed prior to 2011-2012 school year (2-3 credits). Note: All allowed substitution activities must include at least 100 minutes per 5-day week of moderate to vigorous physical activity. No more than four PE credits may be earned through any combination of general PE or PE substitutions.
	Total PE Credit 1.0	**Total PE Credit 1.0**	**Total PE Credit 1.0**
Health	**½ credit:** Health I (½ credit) (Include CPR Awareness) If a student satisfies the Health requirement through either the Principles of Health Science course or the Health Science Course, then the student must complete 1.0 credit.	**½ credit:** Health I (½ credit) (Include CPR Awareness) If a student satisfies the Health requirement through either the Principles of Health Science course or the Health Science Course, then the student must complete 1.0 credit.	**½ credit:** Health I (½ credit) (Include CPR Awareness) If a student satisfies the Health requirement through either the Principles of Health Science course or the Health Science Course, then the student must complete 1.0 credit.
	Total Health Credit .5	**Total Health Credit .5**	**Total Health Credit .5**
Fine Arts *(WISD Req.)	**1 credit:** May choose from art, dance, music, and theatre arts courses **CTE Courses** Principles and Elements of Floral Design	**1 credit:** May choose from art, dance, music, and theatre arts courses **CTE Courses** Principles and Elements of Floral Design	1 credit: May choose from art, dance, music, and theatre arts courses **CTE Courses** Principles and Elements of Floral Design
	Total Fine Arts 1.0	**Total Fine Arts 1.0**	**Total Fine Arts 1.0**
Speech *(WISD Requirement)*	**½ credit:** Communication Applications **CTE Courses** Professional Communications	**½ credit:** Communication Applications **CTE Courses** Professional Communications	**½ credit:** Communication Applications **CTE Courses** Professional Communications
	Total Speech .5	**Total Speech .5**	**Total Speech .5**
Technology *(WISD Requirement)*	**1 credit: choose one from:** • Computer Science I or II • AP Computer Science I or II • Desktop Publishing • Digital Graphics/Animation • Multimedia • Video Technology • Web Mastering • Independent Study in Technology Applications **CTE Courses** • Business Information Management I or II • Business Management with Tech Applications • Digital and Interactive Media	**1 credit: choose one from:** • Computer Science I or II • AP Computer Science I or II • Desktop Publishing • Digital Graphics/Animation • Multimedia • Video Technology • Web Mastering • Independent Study in Technology Applications **CTE Courses** • Business Information Management I or II • Business Management with Tech Applications • Digital and Interactive Media	**1 credit: choose one from:** • Computer Science I or II • AP Computer Science I or II • Desktop Publishing • Digital Graphics/Animation • Multimedia • Video Technology • Web Mastering • Independent Study in Technology Applications **CTE Courses** • Business Information Management I or II • Business Management with Tech Applications • Digital and Interactive Media

	● Telecommunications and Networking ● Principles of Information Technology	● Telecommunications and Networking ● Principles of Information Technology	● Telecommunications and Networking ● Principles of Information Technology
	Total Technology 1.0	**Total Technology 1.0**	**Total Technology 1.0**
Additional electives	**Electives 4.0 credits:** choose from the following: ● courses approved by SBOE for grades 9 – 12 ● state-approved innovative courses ● JROTC (1 to 4 credits) ● College Board advanced placement (AP) courses ● Courses offered for dual credit	**Electives 6.0 credits:** choose from the following: ● courses approved by SBOE for grades 9 – 12 ● state-approved innovative courses ● JROTC (1 to 4 credits) ● College Board advanced placement (AP) courses ● Courses offered for dual credit	**Electives 6.0 credits:** choose from the following: ● courses approved by SBOE for grades 9 – 12 ● state-approved innovative courses ● JROTC (1 to 4 credits) ● College Board advanced placement (AP) courses ● Courses offered for dual credit
	Total Electives Credits 4	**Total Electives Credits 6**	**Total Electives Credits 6**
	TOTAL 23	**TOTAL 27**	**TOTAL 27**

WESLACO INDEPENDENT SCHOOL DISTRICT GRADUATION REQUIREMENTS

- Algebra I, Geometry, Spanish I, and approved CTE Electives may be available at the middle school level for high school state graduation credit.
- A student entering 9th grade in 2014-2015 and thereafter shall enroll in the courses necessary to complete the curriculum requirements for the Foundation with Endorsement plan or the Distinguished Level of Achievement High School Program unless the student, the student's parent or other persons standing in parental relation to the student, and a school counselor or school administrator agree that the student should be permitted to take courses under the Foundation Graduation Plan. For Foundation Graduation Plan students must be 16 years of age, have completed 2 credits required for graduation in each subject of the foundation curriculum or have failed to be promoted to the 10th grade one or more times as determined by the school district. Students must also earn the required score all 5 STAAR End of Course Exams required for the foundation plan.
- The official academic record will indicate the distinguished level of achievement under the Foundation High School Program, an endorsement, and a performance acknowledgement on the diploma and transcript or academic achievement record of a student who satisfied the applicable requirements. Ch. 74, Subchapter B §74.11 (e)
- Advanced Placement courses and dual credit courses may count as a requirement and as part of an endorsement. Ch. 74, Subchapter B §74.11 (h, i)

ENDORSEMENTS

A student shall specify in writing an endorsement the student intends to earn upon entering Grade 9.
A student MUST earn a minimum of 27 credits to earn an endorsement.
A student MUST complete a coherent sequence of courses to complete an endorsement.
To earn an endorsement a student MUST demonstrate proficiency in the following:

- The curriculum requirements for the Foundation with Endorsement High School Program
- A fourth credit in mathematics (Please review math course selection above)
- An additional credit is required in science (Please review science course selection above)

ENDORSEMENT OPTIONS

Students will be able to earn one or more endorsements as part of their graduation requirements. Endorsements consist of a series of courses that are grouped together by interest. They provide students with in depth knowledge of a subject area. The five endorsement options offered by WISD include: 1.) Science, Technology, Engineering, and Mathematics 2.) Business and Industry, 3.) Public Service, 4) Arts and Humanities, and 5.) Multidisciplinary Studies. Students earn an endorsement by completing the curriculum requirements for the endorsement including a 4th credit in math and science and additional elective credits for a total of 27 credits.

Science, Technology, Engineering, and Mathematics (STEM)

A student may earn a STEM endorsement by completing the requirements specified in Foundation High School Graduation Program including Algebra II, chemistry, and physics and:

• a coherent sequence of courses for four or more credits in career and technical education (CTE) that consists of least two courses in the same career cluster including at least one advanced CTE course. The final course in the sequence must be selected from one of the following CTE career clusters:,

- o Science, technology, engineering and mathematics; or

• a coherent sequence of four credits in computer science selected from the following:

- o Fundamentals of computer science
- o Computer Science I
- o Computer Science II
- o Computer Science III
- o AP Computer Science
- o Discrete Mathematics for Computer Science
- o Digital Forensics
- o Game Programming and Design
- o Mobile Application Development
- o Robotics Programming and Design
- o Independent Studies of Technology Applications; or

• three credits in mathematics by successfully completing Algebra II and two additional mathematics courses for which Algebra II is a prerequisite (see Group B); or

• four credits in science by successfully completing chemistry, physics and two additional science course; or

• in addition to Algebra II, physics, and chemistry, a coherent sequence of three additional credits from no more than two of the categories or disciplines represented by the courses listed above.

Business and Industry

A student may earn a business and industry endorsement by completing the requirements specified in Foundation High School Graduation Program and:

• a coherent sequence of courses for four or more credits in CTE that consists of at least two courses in the same career cluster, including least one advanced CTE course, (which includes any course that is the third or higher course in a sequence). The final course in the sequence must be selected from one of the following CTE career clusters:

- o Agriculture, food, and natural resources
- o Architecture and construction
- o Arts, audio/visual technology, and communications
- o Business management and administration
- o Finance
- o Hospitality and tourism
- o Information technology
- o Manufacturing
- o Marketing
- o Transportation, distribution, and logistics; or

• four English elective credits to include three levels of the following areas:

- o Public Speaking; or
- o Debate; or
- o Advanced Broadcast Journalism; or
- o Advanced Journalism: Newspaper; or
- o Advanced Journalism: Yearbook; or
- o Advanced Journalism: Literary Magazine.

• four technology applications credits by selecting from the following:

- • Digital design and media production
- • Digital art and animation
- • 3-D modeling and animation
- • Digital communications in the 21st century
- • Digital video and audio design
- • Web communications
- • Web design
- • Web game development
- • Independent study in evolving/emerging technologies

Public Services

A student may earn a public services endorsement by completing the requirements specified in Foundation High School Graduation Program and:

• a coherent sequence of courses for four or more credits in CTE that consists of at least two courses in the same career cluster, including at least one advanced CTE course, this includes any course that is the third or higher course in a sequence. The courses may be selected from Chapter 130 and/or Chapter 127 or CTE innovative courses approved by the

commissioner. The final course in the sequence must be selected from one of the following CTE career clusters:

- o Education and training
- o Government and public administration
- o Health science
- o Human services
- o Law, public safety, corrections, and security; or

• four courses in Junior Reserve Officer Training Corps (JROTC)

Arts and Humanities

A student may earn an arts and humanities endorsement by completing the requirements specified in Foundation High School Graduation Program and:

- Five social studies credits; or
- Four levels of the same language in a language other than English; or
- Two levels of the same language other than English and two levels of a different language in a language other than English.
- Four levels of American Sign Language; or
- Four credits in fine arts completed in a coherent sequence, selected from courses from one or two categories or disciplines in fine arts: art, dance, music, theatre or innovative courses approved by the commissioner.
- Four English elective credits from the following:
  - o English IV
  - o Independent Study in English
  - o Literary Genres
  - o Creative Writing
  - o Research and Technical Writing
  - o Humanities
  - o Communication Applications
  - o AP English Literature and Composition

Multidisciplinary Studies

A student may earn multidisciplinary studies endorsement by completing the requirements specified in Foundation High School Graduation Program and:

• Four advanced courses that prepare a student to enter the workforce successfully or Post-secondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence; or

• Four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics; or

• Four credits in advanced placement, International Baccalaureate, or dual credit courses selected from English, mathematics, science, social studies, economics, languages other than English or fine arts.

ENHANCEMENTS

Performance Acknowledgement

Students may choose to work towards higher levels of academic performance and graduate with one or both high school degree enhancements. The two Enhancements are: 1.) Performance Acknowledgements and 2.) Distinguished Level of Achievement. To meet the criteria for enhancements, students must satisfy the following performance measures:

1. A student may earn a performance acknowledgment on the student's diploma and transcript for outstanding performance in a dual credit course by successfully completing;

    a. At least 12 hours of college academic courses, including those taken for dual credit as part of the Texas core curriculum, and Advanced technical credit courses, including locally articulated courses, with a grade of the equivalent of 3.0 or higher on a scale of 4.0 or

    b. An associate degree while in high school.

2. Bilingualism and Biliteracy: A student may earn a performance acknowledgement for outstanding performance in bilingualism and biliteracy.

    a. by demonstrating proficiency in accordance with local school district grading policy in two or more languages by:

        i. Completing all English language arts requirements and maintaining minimum grade point average (GPA) of the equivalent of 80 on a scale of 100;
            1. Satisfying one of the following:
                a. Completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of the equivalent of 80 (scale of 100); or

                b. Demonstrated proficiency in the Texas Essential Knowledge and Skills for Level IV or higher in a

language other than English with a minimum GPA or the equivalent of 80 (scale of 100); or

c. Completion of at least three credits in foundation subject area courses in a language other than English with a minimum GPA of 80 (scale of 100); or

d. Demonstrated proficiency in one or more languages other than English through a score of 3 or higher on a College Board advanced placement examination for a language other than English

ii. In addition to meeting the requirements of paragraph I of this subsection, to earn an performance acknowledgement in bilingualism of biliteracy, An English language leaner must also have:
    1. Participated in and met the exit criteria of the ESL program; and
    2. Scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS).

3. A student may earn a performance acknowledgement of the student's transcript for outstanding performance on a College Board Advanced Placement test of r 3 or higher.

4. A student may earn a performance acknowledgement on the student's transcript for outstanding performance on an established, valid, reliable, and nationally norm-referenced preliminary college preparation assessment instrument used to measure a student's progress toward readiness for college and the workplace or on an established valid, reliable, nationally norm-referenced assessment instrument used by colleges and universities as part of their undergraduate admission process by:
    a. Earn a score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSJAT/NMSQT®) that qualifies the student for recognition as a commended scholar or higher by the College Board and National Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation.
    b. Achieving the college readiness benchmark score on at least two of the four subject tests on the ACT-ASPIRE® examination or
    c. Earning a combined critical reading and mathematics score of at least 410 on the evidenced based reading section and 520 on the mathematics section of the SAT or
    d. Earning a composite score on the ACT examination of 28 (excluding the writing subscore)

5. A student may earn a performance acknowledgment on the transcript for earning a state-recognized or nationally or internationally recognized business or industry certification or license with:

    a. Performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification or

    b. Performance on an examination sufficient to obtain a government-required credential to practice a profession

Parents must refer to Chapter 74: Subchapter B Curriculum on the TEA website at http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074b.html

Distinguished Level of Achievement

A student may earn distinguished level of achievement by successfully completing the curriculum requirement for the Foundation High School Program. A total of 27 course credits is required and must include Algebra II, a fourth science credit and at least one endorsement. A student must earn this designation to be eligible for the Top 10% percent automatic admission to a Texas public university.

WEIGHTED COURSES FOR GRADE POINT AVERAGE (G.P.A.)

For students entering grade 9th in 2016-2017 and thereafter.

Class rank shall be determined by weighted grades recorded on the academic achievement record (transcript) and calculating a weighted grade point average for each student. The campus shall record the weighted Grade Point Average on the transcript. See EIC Local Policy for specifics regarding board policy.

WEIGHTED COURSES FOR GRADE POINT AVERAGE			
SUBJECT	COURSE	LEVEL	GPA WEIGHT
ADVANCED PLACEMENT COURSES			
ENGLISH			
A3220100	English Language and Composition	AP	1.25
A3220200	English Literature and Composition	AP	1.25
MATH			
A3100101	Calculus AB	AP	1.25
A3100102	Calculus BC	AP	1.25
A3100200	Statistics	AP	1.25
SCIENCE			

A3010200	Biology	AP	1.25
A3040000	Chemistry	AP	1.25
A3020000	Environmental Science	AP	1.25
A3050003	Physics I	AP	1.25
A3050004	Physics 2	AP	1.25
A3050002	Physics C	AP	1.25
SOCIAL STUDIES			
A3360100	Human Geography	AP	1.25
A3310200	Macroeconomics	AP	1.25
A3310100	Microeconomics	AP	1.25
A3340200	European History	AP	1.25
A3370100	World History	AP	1.25
A3340100	US History	AP	1.25
A3330200	Government and Politics-Comparative	AP	1.25
A3330100	Government and Politics-US	AP	1.25
Other			
A3580100	Computer Science A	AP	1.25
A3500100	Art History	AP	1.25
A3350100	Psychology	AP	1.25
A3490400	LOTE- Level IV Language-Chinese	AP	1.25
A3420100	LOTE- Level IV Language-German	AP	1.25
A3400400	LOTE- Level IV Language-Italian	AP	1.25
A3120400	LOTE- Level IV Language-Japanese	AP	1.25
A3430100	LOTE- Level IV Language-Latin	AP	1.25
A3440100	LOTE- Level IV Language-Spanish	AP	1.25
A3440200	LOTE- Level IV Literature- Spanish	AP	1.25
A3410100	LOTE- Level IV Language-French	AP	1.25
A3500300	Studio Art Drawing	AP	1.25
A3500500	Studio Art 3D Design	AP	1.25
Any other AP course that is linked to an AP Exam developed by College Board will receive the 1.25 weight.			
DUAL ENROLLMENT CLASSES			
03220400	English IV	Dual	1.25
03220300	English III	Dual	1.25
A3100101	Calculus	Dual	1.25
03101100	Pre-Calculus	Dual	1.25
A3010200	Biology	Dual	1.25
03050000	Physics	Dual	1.25
03340100	US History	Dual	1.25
Any Dual Enrollment course that grants a state recognized credit for English, Math, Science and/or Social Studies will carry the weight of 1.25.			
All other dual enrollment courses, such as but not limited to Accounting, Welding, etc., will carry the weight of 1.15.			
Pre-AP Courses			
ENGLISH			
03220100	English I	Pre-AP/Honors	1.10

03220200	English II	Pre-AP/Honors	1.10
03220300	English III	Pre-AP/Honors	1.10
03221800	Independent Study English	Pre-AP/Honors	1.10
MATH			
03100500	Algebra I	Pre-AP/Honors	1.10
03100700	Geometry	Pre-AP/Honors	1.10
03100600	Algebra II	Pre-AP/Honors	1.10
03101100	Pre-Calculus	Pre-AP/Honors	1.10
SCIENCE			
03010200	Biology	Pre-AP/Honors	1.10
03040000	Chemistry	Pre-AP/Honors	1.10
03050000	Physics	Pre-AP/Honors	1.10
SOCIAL STUDIES			
03320100	World Geography	Pre-AP/Honors	1.10
03340400	World History	Pre-AP/Honors	1.10
03340100	US History	Pre-AP/Honors	1.10
OTHER COURSES			
03580200	Computer Science 1	Pre-AP/Honors	1.10
03580300	Computer Science 2	Pre-AP/Honors	1.10
13037200	Research and Design 1	Pre-AP/Honors	1.10
13037210	Research and Design 2	Pre-AP/Honors	1.10
13037220	Research and Design 3	Pre-AP/Honors	1.10
13036400	Advanced Biotechnology	Pre-AP/Honors	1.10
03410200	French 2	Pre-AP/Honors	1.10
03410300	French 3	Pre-AP/Honors	1.10
03410400	French 4	Pre-AP/Honors	1.10
03440220	Spanish 2	Pre-AP/Honors	1.10
03440300	Spanish 3	Pre-AP/Honors	1.10
03151400	Jazz	Pre-AP/Honors	1.10
03500100	Art	Pre-AP/Honors	1.10

Any other course labeled as a Pre-AP or Honors course on the WISD Secondary School Information Catalog will carry the weight of 1.10.

Advanced Career and Technical Education Courses			
SERVICE ID	**COURSE NAME**	**COURSE DESCRIPTION**	**WEIGHT**
Subchapter A Agriculture, Food, and Natural Resources Cluster			
13000700	Advanced Animal Science	CTE-A	1.05
13001950	Turf Grass Management	CTE-A	1.05
13001900	Landscape Design and Management	CTE-A	1.05
13002500	Practicum in Agriculture, Food and Natural Resources	CTE-A	1.05
13002000	Horticulture/Horticultural Science	CTE-A	1.05
13001600	Range Ecology and Management	CTE-A	1.05
13001400	Food Processing	CTE-A	1.05
13002300	Agricultural Structures, Design and Fabrication	CTE-A	1.05

13002350	Agricultural Equipment Design and Fabrication	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter B Architecture and Construction Cluster			
13004700	Architectural Design II	CTE-A	1.05
13005100	Construction Technology I	CTE-A	1.05
13005200	Construction Technology II	CTE-A	1.05
13004800	Practicum in Architectural Design	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter C. Arts A/V Technology, and Communications Cluster			
13008600	Audio Video Production II	CTE-A	1.05
13008610	Audio Video Production II LAB	CTE-A	1.05
13008400	Animation II	CTE-A	1.05
13008800	Graphic Design & Illustration II	CTE-A	1.05
13008700	Practicum in Audio/Video Production	CTE-A	1.05
13009970	Video Game Design	CTE-A	1.05
13009100	Commercial Photography I	CTE-A	1.05
13009110	Commercial Photography I LAB	CTE-A	1.05
13009200	Commercial Photography II	CTE-A	1.05
13009210	Commercial Photography II LAB	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter D. Business Management and Administration Cluster			
13011500	Business Information Management II	CTE-A	1.05
13012200	Practicum in Business Management	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter E. Education and Training Cluster			
	Instructional Practices	CTE-A	1.05
13014500	Practicum in Education and Training	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter F. Finance Cluster			
13016600	Accounting I	CTE-A	1.05
13016700	Accounting II	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter G. Government and Public Administration Cluster ***Courses Not Available at WISD***			
Subchapter H. Health Science Cluster			
13020700	Medical Terminology	CTE-A	1.05
13020500, 505, 510, 515	Practicum in Health Science	CTE-A	1.05
13020600	Anatomy and Physiology	CTE-A	1.05
13020700	Medical Microbiology	CTE-A	1.05
13020800	Pathophysiology	CTE-A	1.05
13020970	Mathematics for Medical Professional	CTE-A	1.05
13020960	Health Informatics	CTE-A	1.05
13020950	Pharmacology	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter I. Hospitality and Tourism			

13022600	Culinary Arts	CTE-A	1.05
13022650	Advanced Culinary Arts	CTE-A	1.05
13022700	Practicum in Culinary Arts	CTE-A	1.05
Subchapter J. Human Service Cluster			
13024500	Lifetime Nutrition and Wellness	CTE-A	1.05
13024300	Dollars and Sense	CTE-A	1.05
13024700	Child Development	CTE-A	1.05
13024900	Family & Community Services	CTE-A	1.05
13025200	Cosmetology I	CTE-A	1.05
13025300	Cosmetology II	CTE-A	1.05
13025050	Principles of Cosmetology Design & Color Theory	CTE-A	1.05
13025000	Practicum in Human Services	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter K. Information Technology Cluster			
13027400	Networking	CTE-A	1.05
13027500, 510,	Computer Technician Practicum	CTE-A	1.05
13027800	Digital Media	CTE-A	1.05
13027400	Networking LAB	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter L. Law, Public Safety, Corrections, and Security Cluster			
13029400	Law Enforcement II	CTE-A	1.05
13029500	Forensic Science	CTE-A	1.05
13029600	Court Systems and Practices	CTE-A	1.05
13029800	Federal Law Enforcement & Protective Services	CTE-A	1.05
13029550	Criminal Investigations	CTE-A	1.05
13030000	Firefighter II	CTE-A	1.05
13030100	Practicum in Law, Public Safety, Corrections & Security	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter M. Manufacturing Cluster			
13032300	Welding I	CTE-A	1.05
13032400	Welding II	CTE-A	1.05
13032600	Precision Metal Manufacturing II	CTE-A	1.05
13033000, 010	Practicum in Manufacturing	CTE-A	1.05
Subchapter N. Marketing Cluster			
13024200	Advertising	CTE-A	1.05
13034300	Fashion Marketing	CTE-A	1.05
13034400	Entrepreneurship	CTE-A	1.05
13034600	Sports and Entertainment Marketing	CTE-A	1.05
13034650	Social Media Marketing	CTE-A	1.05
13034700	Advanced Marketing	CTE-A	1.05
13034800	Practicum in Marketing	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter O. Science, Technology, Engineering, and Mathematics Cluster			
13036500	Engineering Design and Presentation I	CTE-A	1.05
13036700	Engineering Mathematics	CTE-A	1.05

13037400	Practicum in Science, Technology, Engineering and Math	CTE-A	1.05
13037300	Engineering Design & Problem Sol.	CTE-A	1.05
TBD	Engineering Design & Presentation II	CTE-A	1.05
12701500	Problems and Solutions	CTE-A	1.05
TBD	Biotechnology I	CTE-A	1.05
TBD	Scientific Research& Design	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Subchapter P. Transportation, Distribution, and Logistics Cluster			
13039600	Automotive Technology I: Maintenance and Light Repair	CTE-A	1.05
13039700	Automotive Technology II: Automotive Service	CTE-A	1.05
13039800	Collision Repair	CTE-A	1.05
13039900	Paint and Refinishing	CTE-A	1.05
13040150	Diesel Equipment Technology I	CTE-A	1.05
13040160	Diesel Equipment Technology II	CTE-A	1.05
12701300	Career Preparation	CTE-A	1.05
Only courses on this list will carry the weight of 1.05.			
General Courses			
All other courses such as English I, Physical Education, etc. will carry the weight of 1.00			

* Combined Advanced Placement / Concurrent classes will receive the higher weight
*Afterschool dual enrollment course are excluded from ranking, unless the course is part of the ECHS or dual enrollment academies.

FORMULA TO DETERMINE THE WEIGHTED GPA: Multiply each semester grade by the assigned weight, add the weighted semester grades, then divide the sum by the number of semester grades used. Grades earned by the end of the fall semester of their senior year.

Courses NOT Counted on GPA (See EIC Local for updates)

In calculating the grade point average and class ranking, the following course grades shall be excluded:

The calculation of class rank shall exclude grades earned in a distance learning course, unless the course is either assigned to the student by the District or offered as a course option along with traditional District courses; self-paced courses; any course for which a pass/fail grade is assigned; or through credit by examination, with our without prior instruction.

(Refer to EIC Local Policy for updated information)

Transfer of Courses and Grades

When a student transfers after a semester of full year is completed, the receiving district must honor credits already awarded by the sending Texas public district or charter (19 TAC §74.26(a)(1); including high school courses completed prior to grade 9.

Student records from non-Texas public schools (i.e., private, out-of-state or out-of-country,) will be evaluated for transfer of credit, including courses completed prior to grade 9. Credit will be awarded provided the curriculum of the course is aligned with Texas

Essential Knowledge and Skills (TEKS) The District may require the student to demonstrate mastery of the content or use alternative methods to verify course content for award of credit. (FD Local)

Transfer grades shall be honored according to the criteria above. The principal shall make a final determination if there is a question of category or weight.

Letter Grades

When students transfer to WISD from a school that gives letter grades, a uniform grading system for translating letter grades is used in all secondary schools. This system also applies to credits completed through the Dual Credit program. A high school student enrolled in dual-credit course in which only letter grades are assigned may request a numerical grade from their instructor. College instructors are not required to grant requests for numerical grades. It is the students' responsibility to verify if the instructor agrees to provide a numerical grade prior to enrolling in the course. To request a numerical grade, a student must contact the college instructor and request that a numerical grade be sent to the student's high school registrar. Please note that the numerical grade provided by the instructor will be used in lieu of the established alpha numeric chart conversion scale.

The alpha numeric chart is:

A	Excellent	A+	98
		A	95
		A-	93
B	Good	B+	88
		B	85
		B-	83
C	Fair	C+	78
		C	75
		C-	73
D	Failing		69 below *A transfer grade of a 69 or below transferred as a passing grade, will be converted to a 70.*

(EIC Local Policy)

Exception: Upon receipt of an alpha-to-numeric conversion scale from the sending district, the sending district's grading scale is used in lieu of WISD's conversion chart.

When a student transfers to WISD and brings a Pass/Fail grade then the Pass grade will be converted into a 70 and will not be included in the GPA. The Fail grade will be converted into a 60 and will not be included in the GPA.

State of Texas Diploma

After the completion of all graduation requirements students receive a high school diploma. All students receive the same diploma. Differences in graduation plans are reflected in the student transcript.

SPECIAL RECOGNITIONS

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Automatic Admissions to Texas Public Universities

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** of eligible 2015 summer/fall freshman applicants for admission to the University of Texas at Austin, and the applicant:

(1) successfully completed the requirements for the Recommended High School Program (RHSP) or the Distinguished Achievement Program (DAP); or

(2) satisfied ACT's College Readiness Benchmarks on the ACT assessment or earned on the SAT assessment a score of at least 1,500 out of 2,400 or the equivalent.

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.
(This is subject to change with new legislation)

Honor Graduates

Students who graduate under the Foundation Plan, Foundation with Endorsements Plan, or Distinguished Level of Achievement Plan with a weighted GPA of 89.5 or above will be recognized as honor graduates. No rounding up will be allowed. (Refer to EIC Policy)

CREDIT ACCRUAL OPPORTUNITIES

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In addition to regular enrollment in classes at the high schools, the following credit accrual opportunities are available:

Extended Day

Several high school courses are offered through self-paced programs such as A-Plus. Courses are offered to make up credits in English, Math, Social Studies, and Science.

Summer School

Courses are offered each summer for 6 weeks to make up credit in English, Math, Science, Social Studies, and Technology Applications. Limited courses for advancement may be available.

Distance Learning

Students may earn high school credit for approved courses taken by correspondence from various colleges and universities. Students need counselor approval. When available, students may enroll in approved distance learning courses through the internet or interactive video.

Credit by Examination

Students may earn credit for courses in which no prior instruction has been received through an examination given at designated times during the year. A score of 90 or better is required. Students may earn credit for courses in which prior instruction has been received by taking an exam and scoring a 70 or better. The student must have made at least a 60 in order to take a credit by exam with prior instruction.

College Courses

Students enrolled in college courses at a high school or college campus while still enrolled in high school may, with prior approval, receive college credit in addition to high school credit for the course. Students must either be TSI exempt or pass the TSI. See your counselor for details.

Dual Enrollment

Students taking these courses receive both college and high school credit.

Middle School Courses for High School Credit

Students taking Spanish I and/or Career Portals while in middle school will receive high school credit only. The grade will be excluded from G.P.A. and ranking calculations. Algebra 1 and Geometry grades will be included in G.P.A. and ranking calculations.

COLLEGE PREPARATION TIMELINE

Grades	Goals and Objectives
Grades 6 - 7	Begin to establish career goals and objectives.
Grade 8	Plan a four-year high school academic program. Each student attends an academic conference with parents and a school counselor during which course selections are chosen for the high school years. Review college catalogs, publications and Web sites, which give college profiles and entrance requirements.
Grade 9	Review academic plan. Re-evaluate goals and objectives. Confer with parent(s) and the high school counselor to decide on courses for the 10th grade.
Grade 10	Review academic plan. Re-evaluate goals and objectives. Confer with parent(s) and the high school counselor to decide on courses for the 11th grade. Take a practice PSAT in October. Review college catalogs, publications, and Web sites which give college profiles.
Grade 11	Review academic plans and narrow college choices. Confer with parent(s) and the high school counselor to decide on courses for the senior year and to discuss post-graduation plans. Attend College/University Parent and Student meetings. Take PSAT in October (National Merit Qualifying Test). Take SAT or ACT in the late spring. Begin working on college essays. Explore scholarship opportunities. Start finalizing college/university choices by May.
Grade 12	Finalize college/university choices. Confer with counselor in early fall. Take SAT and/or ACT in October or November. Work on Financial Aid in October. Send housing application in the early fall. . Send federal financial aid applications in October. Send local scholarship applications in the fall and spring.

COURSE OFFERINGS

Course Selection and Request for Changes

Students will select courses for the next school year during the spring semester. Factors to be considered in selecting courses are the following:

- requirements for graduation
- significance to the student's overall program and education/career goals
- purpose of the course
- possible prerequisite for other courses
- Programs of study
- Graduation Plans and Endorsements

After pre-registration, requests for changes should be made to student's current counselor before the last day of enrollment. Changes after the first day of school must be approved by campus principal. No schedule changes will be allowed after the third week of school.

Course Designations

Regular: All regular courses taken follow 100% of the Texas Essential Knowledge and Skill (TEKS) as required in the state curriculum.

Pre-Advanced Placement (Pre-AP or PAP)

The Pre-AP program is a level of challenging courses designed to teach students strong study skills and learning strategies. Pre-AP courses are offered in graded 6-12 and are taught by teachers with specialized training. Pre-AP courses emphasize critical thinking, reading, research, and writing, and as appropriate, advanced performance expectations. Pre-AP courses carry weighted grade points.

Advanced Placement (AP)

The Advanced Placement program is a sequence of college-level courses taught in high school by teachers with specialized training. AP courses require students to study content for a deeper understanding at a more cognitively complex level. Students have the opportunity to take AP Exams in May. AP exam results are used to grant college credit and course placement based on student performance based on policies of individual colleges and universities. AP courses carry weighted grade points.

Dual Enrollment

A dual credit course is a course taken in high school for the purposes of gaining high school and college credit simultaneously. The course can be taken at a high school campus or at a college campus. Dual credit provides advanced academic instruction beyond, or in greater depth than the Texas Essential Knowledge and Skills (TEKS).

The Dual Credit Program requirements are listed below:

- Student has completed the sophomore year of high school (unless they participate in the ECHS program); and

- Met with their assigned WISD counselor prior to beginning the Dual Credit process;
- Be college ready by meeting TSI standards, and course prerequisites prior to enrolling in class;

A student may also attend UT-RGV or STC as an independent student gaining college/university credit. To receive high school credit, the course must be listed in the approved district dual/credit course listing and must be approved by the assigned counselor. Career oriented course selections are available through the South Texas College Academies.

Gifted and Talented (GT)

The gifted and talented population at the secondary level is served through the pre-AP and AP classes. Instruction is differentiated to accommodate the needs of gifted and talented students.

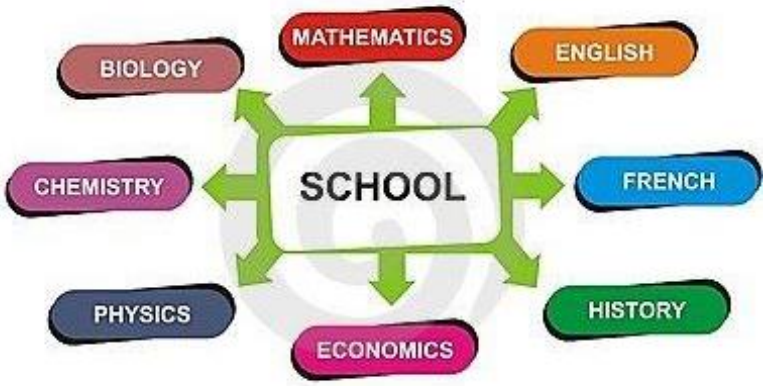
Career and Technical College Articulated Courses

Certain content-enhanced career and technical high school courses have been found to be substantially equal to certain introductory-level college courses. A student completing these courses must achieve a grade of "80" or above, satisfactorily complete other college required exams or portfolio in the identified course, and where applicable, meet special conditions, to receive articulated credit. All courses eligible for college credit are identified on the high school transcript with the special explanation course code "A". This code helps participating colleges identify courses taught for award of articulated college credit. Completion of these college-level courses provides a way to start a college technical major in high school and continue in a participating postsecondary institution. The result is a certificate or associate degree in a career field. Please see your assigned counselor for a list of articulated courses.

Advanced Technical Courses

A list of courses is available on pages 32-38 of this catalog. These Advanced Technical Courses are part of the coherent sequence of courses that are mandated to fulfill certain endorsement. They are completed during the 3rd and/or 4th year in high school.

DESCRIPTION OF
HIGH SCHOOL COURSES OFFERED
TO WISD STUDENTS



COURSE DESCRIPTIONS

ENGLISH LANGUAGE ARTS AND READING

WESLACO ISD Course No.		Subject	Grade	Credits
03220100	EN0130	ENGLISH I		1
03220200	EN0230	ENGLISH II		1
03220300	EN0330	ENGLISH III		1
03220400	EN0430	ENGLISH IV		1
N1280003	RR0120	ENGLISH FOR NEWCOMERS A		.5-1
N1280004	RR0220	ENGLISH FOR NEWCOMERS B		.5-1
03221800/810/820	ES0185/6	INDEPENDENT STUDY IN ENGLISH I, II, III		.5-1
A3220100	EN0390 (11)EN1490(12)	AP ENGLISH LANGUAGE AND COMPOSITION		1
A3220200	EN1490	AP ENGLISH LITERATURE AND COMPOSITION		1
03270700/800/900	ER0130, ER0230, R0330	READING I, II, III		1
03270100	ER3036	RDG APPLICATION/STUDY SKILLS		.5
03221200	EW6035/6	CREATIVE & IMAGINATIVE WRITING		.5-1
03221300	EW1030	PRACTICAL WRITING SKILLS		.5-1
03221100	EW5035/36	RESEARCH AND TECHNICAL WRITING		.5-1
03221700	VA1030	ANALYSIS OF VISUAL MEDIA		.5
03241400	VS1035/6	COMMUNICATION APPLICATIONS		.5
03240200/300/400	VI0130 - VI0430	ORAL INTERPRETATION I, II, III, IV		1
03240600/700	VD0130 - VD0230	DEBATE I, II		1
03230100	VJ0130	JOURNALISM	10-12	1
02321000/11/22	VJ5080	INDEPENDENT STUDY IN JOURNALISM	12	1
03231900/901/902		ADVANCED BROADCAST JOURNALISM I,II,III	10-12	1
03230800	VJ1030	PHOTOJOURNALISM	10-12	1
03230110 - 190	VJ0230 - VJ0430	ADVANCED JOURNALISM I, II, III (NEWSPAPER, YEARBOOK, LITERARY MAG.)	10-12	1
03221600	HH1071	HUMANITITES	9-12	1
		PROFESSIONAL COMMUNICATION	9-12	.5
		COMMUNICATION APPLICATIONS	9-12	.5

ENGLISH I EN0130

CREDIT (1) PREREQUISITE: NONE

Students enrolled in English I continue to increase and refine their communication skills. High school students are expected to plan, draft, and complete written compositions on a regular basis. In English I, students practice all forms of writing. An emphasis is placed on organizing logical arguments with clearly expressed related definitions, theses, and evidence. Students write to persuade and to report and describe. English I students read extensively in multiple genres from world literature such as reading selected stories, dramas, novels, and poetry originally written in English or translated to English from oriental, classical Greek, European, African, South American, and North American cultures. * **Pre-AP**

ENGLISH II EN0230

CREDIT (1) PREREQUISITE: NONE

Students enrolled in English II continue to increase and refine their communication skills. High school students are expected to plan, draft, and complete written compositions on a regular basis. In English II, students practice all forms of writing. An emphasis is placed on persuasive forms of writing such as logical arguments, expressions of opinion, and personal forms of writing. These personal forms of writing may include a response to literature, a reflective essay, or an autobiographical narrative. English II students read extensively in multiple genres from world literature such as reading selected stories, dramas, novels, and poetry originally written in English or translated to English from oriental, classical Greek, European, African, South American, and North American cultures. *** Pre-AP**

ENGLISH III EN0330

CREDIT (1) PREREQUISITE: NONE

Students enrolled in English III continue to increase and refine their communication skills. High school students are expected to plan, draft, and complete written compositions on a regular basis. In English III, students practice all forms of writing. An emphasis is placed on business forms of writing such as the report, the business memo, the narrative of a procedure, the summary or abstract, and the résumé. English III students read extensively in multiple genres from American literature and other world literature. Periods from American literature may include the pre-colonial period, colonial and revolutionary periods, romanticism and idealism, realism and naturalism, early 20th century, and late 20th century. * **Pre-AP, AP Lang/Composition**

ENGLISH IV EN0430

CREDIT (1) PREREQUISITE: Complete English I, II, and III.

Students enrolled in English IV continue to increase and refine their communication skills. High school students are expected to plan, draft, and complete written compositions on a regular basis. In English IV, students are expected to write in a variety of forms, including business, personal, literary, and persuasive texts. English IV students read extensively in multiple genres from British literature and other world literature. Periods from British literature may include the old English period, medieval period, English renaissance, 17th century, 18th century, romantic period, Victorian period, and modern and post-modern period. *** AP Lang/ Composition, AP Lit/Composition**

ENGLISH FOR NEWCOMERS A RR0120

CREDIT (.5-1) PREREQUISITE: Placement test score

This is an intensive reading and writing course for recent immigrants whose native language is not English, and takes students from a beginning to an intermediate level of English proficiency. It is built on high-interest thematic content while reinforcing both vocabulary development and grammatical structures.

ENGLISH FOR NEWCOMERS B RR0220

CREDIT (.5-1) PREREQUISITE: Placement test score

This is an intensive reading and writing course for recent immigrants whose native language is not English, and takes students from an intermediate to an advanced level of English proficiency. It is built on high-interest thematic content while reinforcing both vocabulary development and grammatical structures.

INDEPENDENT STUDY IN ENGLISH I, II, III ES0185/6

CREDIT (.5-1)

Independent Study in English students are expected to write in a variety of forms including business, personal, literary, and persuasive texts for a variety of audiences and purposes. Writing is used as a tool for learning as students create, clarify, critique, and express appreciation for others' ideas and responses. Students continue to read extensively in increasingly difficult texts selected in multiple genres for a variety of purposes. Students may produce an original product with or without a mentor as required by the Distinguished Achievement graduation plan.

AP ENGLISH LANGUAGE AND COMPOSITION EN0390 (11) EN1490 (12)

CREDIT (1) PREREQUISITE: Contract

This is a College Board Advanced Placement course which may be taken in the junior year in place of English III or in the senior year in place of English IV. Students fulfill all TEKS requirements for those courses as well as complete more rigorous coursework which prepares them for the College Board examination in May. This is considered a college level course, and students may obtain college credit depending on their AP exam score and university requirements.

AP ENGLISH LITERATURE AND COMPOSITION EN1490

CREDIT (1) PREREQUISITE: Contract

This is a College Board Advanced Placement course which may be taken in the senior year in place of English IV. Students fulfill all TEKS requirements for that course as well as complete more rigorous coursework which prepares them for the College Board examination in May. It is considered a college level course, and students may obtain college credit depending on their AP exam score and university requirements.

READING I, II, III ER0130, ER0230, ER0330

CREDIT (1) each year PREREQUISITE: Recommendation

Reading I, II, III offers students instruction in word recognition and comprehension strategies and vocabulary to ensure that high school students have an opportunity to read with competence, confidence, and understanding. Students are given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students learn how various texts are organized and how authors choose language for effect. All of these strategies are applied in texts that cross the subject fields.

RDG APPLICATION/STUDY SKILLS ER3036

CREDIT (.5) PREREQUISITE: Passes EXIT TAAS R & W/TAKS ELA

High school students that require or request additional honing of the study skills, especially as the students prepare for the demands of college, may enroll in this course, where students learn techniques for learning from texts including studying word meanings, producing effective summaries, identifying and relating key ideas, drawing and supporting inferences, and reviewing study strategies.

Students accomplish many of the objectives through wide reading as well as use of cross-curricular content texts in preparation for standardized testing and post-secondary schooling.

CREATIVE & IMAGINATIVE WRITING EW6035/6

CREDIT (.5- 1) PREREQUISITE: Passes EXIT TAAS R & W/TAKS ELA

This is a rigorous composition course which asks high school students to demonstrate their skill in such forms of writing as essays, short stories, poetry, and drama. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The student's evaluation of his/her own writing as well as the writing of others insures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop and apply criteria for effective writing, and set their own goals as writers.

PRACTICAL WRITING SKILLS EW1030

CREDIT (.5-1) PREREQUISITE: Recommendation

The study of writing allows high school students to earn one-half to one credit while developing skills necessary for composing business letters and requests for information, as well as for completing job applications and résumés. This course emphasizes skill in the use of conventions and mechanics of written English, the appropriate and effective application of English grammar, and the effective use of vocabulary. Students are expected to understand the recursive nature of the writing process.

RESEARCH AND TECHNICAL WRITING EW5035/36

CREDIT (.5-1) PREREQUISITE: Recommendation

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. Students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop and apply criteria for effective writing, and set their own goals as writers.

ANALYSIS OF VISUAL MEDIA VA1030

CREDIT (.5) PREREQUISITE: None

High school students enrolled in Analysis of Visual Media will interpret various media forms for a variety of purposes. In addition, students will critique and analyze the significance of visual representations and learn to produce media messages that communicate with others.

COMMUNICATION APPLICATIONS VS1035/6

CREDIT (.5) PREREQUISITE: None

Students enrolled in Communication Applications will be expected to identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. This course must be taken to meet the speech graduation requirement.

ORAL INTERPRETATION I, II, III, IV VI0130 - VI0430

CREDIT (1) each year PREREQUISITE: preceding level

Students enrolled in Oral Interpretation I, II, III will select, research, analyze, adapt, interpret, and perform literary texts. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts to attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated.

DEBATE I, II VD0130 - VD0230

CREDIT (1) PREREQUISITE: Communication applications; preceding level

Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen

communication skills. They acquire life-long skills for intelligently approaching controversial issues and clashes of opinion.

JOURNALISM VJ0130

CREDIT (1) Grade Level (10-12) PREREQUISITE: Contract/Teacher Approval

Students enrolled in Journalism write in a variety of forms for a variety of audiences and purposes. 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. Students enrolled in Journalism will learn journalistic traditions, research self-selected topics, write journalistic texts, and learn the principles of publishing.

INDEPENDENT STUDY IN JOURNALISM VJ5080

CREDIT (1) Grade Level (12) PREREQUISITE: Journalism/Contract/Teacher Approval

Students enrolled in Independent Study in Journalism write in a variety of forms for a variety of audiences and purposes. Students create, clarify, critique, write, and produce effective communications. Students enrolled in this course will refine and enhance their journalistic skills, research self-selected topics, plan, organize, and prepare a project(s).

ADVANCED BROADCAST JOURNALISM I, II, III

CREDIT (1) Grade Level (10-12) PREREQUISITE: Contract/Teacher Approval

Students need to be critical viewers, consumers, and producers of media. High school students enrolled in this course will apply and use their journalistic skills for a variety of purposes. Students will learn the laws and ethical considerations that affect broadcast journalism; learn the role and function of broadcast journalism; critique and analyze the significance of visual representations; and learn to produce by creating a broadcast journalism product.

PHOTOJOURNALISM VJ1030

CREDIT (1) Grade Level (10-12) PREREQUISITE: Contract/Teacher Approval

Students enrolled in Photojournalism communicate in a variety of forms for a variety of audiences and purposes. High school students are expected to plan, interpret, and critique visual representation, carefully examining their product for publication. Students will become analytical consumers of media and technology to enhance their communication skills. High school students will study the laws and ethical considerations that impact photography. Technology, visual, and electronic media are used as tools for learning as students create, clarify, critique, and produce effective visual representations. Students enrolled in this course will refine and enhance their journalistic skills, plan, prepare, and produce photographs for a journalistic publication. For high school students whose first language is not English, the students' native language serves as a foundation for English language acquisition and language learning.

ADVANCED JOURNALISM I, II, III VJ0230 - VJ0430
NEWSPAPER, YEARBOOK, LITERARY MAG.

CREDIT (1) Grade Level (10-12) PREREQUISITE: Journalism/Teacher Approval

Students may enroll in up to three levels of newspaper, yearbook or literary magazine courses. 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. Students will apply their skills in producing the school paper, yearbook or magazine.

HUMANITITES HH1071

CREDIT (1) PREREQUISITE: None

Humanities is an interdisciplinary course in which students recognize writing as an art form. Students read widely to understand how various authors craft compositions for various aesthetic purposes. This course includes the study of major historical and cultural movements and their relationship to literature and the other fine arts. Students use written composition to show an in-depth understanding of creative achievements in the arts and literature and how these various art forms are a reflection of history.

SOCIAL STUDIES

WESLACO ISD Course No.		Subject	Grade	Credits
03340100	HU1030	U.S. History	10-12	1
	HU1080	U.S. History Pre-AP	10-12	1
A03340100	HU1090	U.S. History AP	10-12	1
03340400	HW1030	World History	9	1
A3370100		World History AP	10-12	1
		World History Pre-AP	8	
03320100	HW1230	World Geography	9-12	1
03320100		World Geography Pre-AP	9-12	1
03330100	HG1035/HG1036	U.S. Government	11-12	.5
A3330100	HG1095/HG1096	U.S. Government and Politics AP	11-12	.5
03310300	HE1035/HE1036	Economics	11-12	.5
A3310200	HE1095/HE1096	Economics (Macroeconomics) AP	11-12	.5
		Special Topics in Social Studies		1
03350100	HP1035/6	Psychology		.5
03370100		Sociology		.5
03380082		Personal Financial Literacy		.5

US HISTORY HU1030
Grade 10-12 Credit (1)

Students will learn the history of the United States from 1876 (period following reconstruction) to the present, covering political, social, and economic trends in national events and the United States involvement in world affairs. Higher-level thinking and writing skills are emphasized.

U.S. HISTORY Pre-AP HU1080
Grade 10-12 Credit (1)

In this advanced course students will learn United States from 1876 (period following reconstruction) to the present. This course includes the same elements of U.S. History; however, this class is intended to challenge the ability and meet the needs of academically talented, college-bound students. Students explore an interdisciplinary view of the development of the history of the United States through the interpretation, evaluation and analysis of historical and literary materials. Emphasis will be on developing study skills for the student to be successful in an Advanced Placement social studies class.

U.S. History AP HU1090
Grade 11-12 Credit (1)

This course is designed to provide a college-level experience and preparation for the Advanced Placement Exam. An emphasis is placed on interpreting documents, mastering a significant body of factual information, and writing critical essays. Topics include life and thought in colonial America, revolutionary ideology, constitutional development, Jeffersonian and Jacksonian democracy, nineteenth-century reform

movements, and Manifest Destiny. Other topics include the Civil War and Reconstruction, immigration, industrialism, Populism, Progressivism, World War I, the Jazz Age, the Great Depression, the New Deal, World War II, the Cold War, the post-Cold War era, and the United States at the beginning of the twenty-first century. This course will fulfill the United States history graduation requirement.

World History HW1030
Grade 9-12 Credit (1)

Students will cover the history of the World from pre-historic times to the present. The students will study the social, economic, political, and religious forces that have shaped the world for five thousand years and the inventions, arts and wars that resulted from these events. High-level thinking and writing skills are emphasized.

World History Pre-AP HW1080
Grade 9-11 Credit (1)

This advanced course provides an overview of the history of humankind from 8000 BC to the present. This course includes the same elements of World History; however, this class is intended to challenge the ability and meet the needs of academically talented, college-bound students. Students explore an interdisciplinary view of the development of past and present cultures through the interpretation, evaluation and analysis of historical and literary materials. Emphasis will be on developing study skills for the student to be successful in an Advanced Placement social studies class.

World History AP HW1090
Grade 9-12 Credit (1)

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study.

World Geography HW1230
Grade 9-12 Credit (1)

The course includes geographic concepts and information, civics, economics, multicultural and environmental issues. This will include teaching of tolerance, crime, and justice.

World Geography Pre-AP
Grade 9-12 Credit (1)

The same material is covered as in the regular course, but more critical thinking skills will be required. This will include teaching of tolerance, crime, and justice. Emphasis will be on developing study skills for the student to be successful in an Advanced Placement social studies class. This class will follow a format that emphasis a more analytical approach.

U.S. Government HG1035/HG1036
Grade 11 or 12 Credit (1/2)

A study of the American Constitutional Government system, of the origins, developments and present day problems of the national government and of the rights, privileges and obligations of U.S. citizens. Includes a short study of Texas government and requires higher-level thinking and writing skills.

U.S. Government and Politics AP HG1095/HG1096
Grade 11-12 Credit (1/2)

Advanced Placement Government and Politics will give students an analytical perspective on government and politics in the United States. The course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. The program prepares students for the Advanced Placement United States Government Test by making demands upon them equivalent to those made by full-year introductory college courses.

Economics HE1035/HE1036
Grade 11 -12 Credit (1/2)

Economics is the study of the free market and effects of government policy upon it in a dynamic, competitive global economy. The concepts of international trade, the role of labor, the effects of government taxation as well as fiscal and monetary policy are emphasized in this course. Higher-level thinking and writing skills are emphasized.

Economics (Macroeconomics) AP HE1095/HE1096
Grade 11-12 Credit (1/2)

Advance Placement Economics (Macroeconomics) is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price determination, and also develops the students' familiarity with economic performance measures, economic growth, and international economics. The program prepares students for the Advanced Placement Economics Test by making demands upon them equivalent to those made by full-year introductory college courses.

Psychology HP1035/6
CREDIT (.5) PREREQUISITE: None

In Psychology, an elective course, students consider the development of the individual and the personality. The study of psychology is based on an historical framework and relies on effective collection and analysis of data. Students study topics such as theories of human development, personality, motivation, and learning.*** CC (dual)**

Sociology
CREDIT (.5) PREREQUISITE: None

In Sociology, an elective course, students study dynamics and models of individual and group relationships. Students study topics such as the history and systems of sociology, cultural and social norms, social institutions, and mass communication.*** CC (dual)**

Personal Financial Literacy
CREDIT (.5) PREREQUISITE: None

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. The knowledge gained in this course has far-reaching effects for students personally as well as the economy as a whole. When citizens make wise financial decisions, they gain opportunities to invest in themselves, build businesses, consume goods and services in a responsible way, and secure a future without depending on outside assistance. The economy benefits from the optimal use

of resources, increased consumption, and strong local businesses. State and local governments benefit with steady revenue streams and reduced future obligations as our society ages.

MATHEMATICS

WESLACO ISD Course No.		Subject	Grade	Credits
03100500	MA0130	ALGEBRA I		1
	MA0230 03100600	ALGEBRA II		.5-1
	MG1030 03100700	GEOMETRY		1
03101100	MC0130	PRECALCULUS		.5-1
03102400	MM1030	MATH MODELING with APPLICATIONS		1
	MC1190 A3100101	AP CALCULUS AB		.5-1
	MC1290 A3100102	AP CALCULUS BC		.5-1
	MH2090 A3100200	AP STATISTICS		.5-1
03102500	MI1930	INDEPENDENT STUDY IN MATH		.5-1
	VM0130	STRATEGIC LEARNING MATH		1
	MAP430	COLLEGE READINESS MATH		1
	QS1230	ENGINEERING MATH		1
	MR1030	ALGEBRAIC REASONING		1

ALGEBRA I MA0130

CREDIT (1) PREREQUISITE: Mathematics, Grade 8 or its equivalent

In Algebra I, students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. 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. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations.

ALGEBRA II MA0230

CREDIT (.5-1) PREREQUISITE: Algebra I

In Algebra II, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their 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. * **Pre-AP**

GEOMETRY MG1030

CREDIT (1) PREREQUISITE: Algebra I

In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise 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. Students will connect previous knowledge from Algebra I to Geometry through the coordinate and transformational geometry strand. In the logical arguments and constructions strand, students are expected to create formal constructions using a straight edge and compass. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. In proof and congruence, students will use deductive reasoning to justify, prove and apply theorems about geometric figures. Throughout the standards, the term "prove" means a formal proof to be shown in a paragraph, a flow chart, or two-column formats. Proportionality is the unifying component of the similarity, proof, and trigonometry strand. Students will use their proportional reasoning skills to prove and apply theorems and solve problems in this strand. The two- and three-dimensional figure strand focuses on the application of formulas in multi-step situations since students have developed background knowledge in two- and three-dimensional figures. Using patterns to identify geometric properties, students will apply theorems about circles to determine relationships between special segments and angles in circles. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post-secondary education.*** Pre-AP**

PRECALCULUS MC0130

CREDIT (.5-1) PREREQUISITE: Algebra I, Geometry, Algebra II

Precalculus is the preparation for calculus. The course approaches topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Students systematically work with functions and their multiple representations. The study of Precalculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems*** Pre- AP, DUAL**

MATH MODELING with APPLICATIONS MM1030

CREDIT (1) PREREQUISITE: Algebra I

Mathematical Models with Applications is designed to build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. This mathematics course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Students will select from tools such as physical objects; manipulatives; technology, including graphing calculators, data collection devices, and computers; and paper and pencil and from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems

AP CALCULUS AB MC1190

CREDIT (.5-1) PREREQUISITE: Precalculus

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

AP CALCULUS BC MC1290

CREDIT (.5-1) PREREQUISITE: Precalculus

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends in the content learned in AB to different types of equations and introduces the topic of sequences and series. The AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. **-* AP, DUAL**

AP STATISTICS MH2090

CREDIT (.5-1) PREREQUISITE: Algebra II

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

INDEPENDENT STUDY IN MATH MI1930

CREDIT (.5-1) PREREQUISITE: Algebra II, Geometry. Approval

In Independent Study in Math, students will extend their mathematical understanding in a specific area or areas of mathematics, such as theory of equations, number theory, non-Euclidean geometry, advanced survey of mathematics, or history of mathematic

STRATEGIC LEARNING MATH VM0130

CREDIT (1) PREREQUISITE: None

This course is intended to create strategic mathematical learners from underprepared mathematics students. The basic understandings will stimulate students to think about their approach to mathematical learning. These basic understandings will include identifying errors in the teaching and learning process, input errors, physiological concerns, and key cognitive skills. The essential knowledge and skills will foster a deeper understanding of the task of learning mathematical concepts. Use of personal data and statistical analysis will establish relevance and aid in creation of individualized learning plans (I.L.P.'s).

COLLEGE READINESS MATH MAP430

CREDIT (1) PREREQUISITE: Algebra I, Geometry, and met satisfactory on the Algebra I EOC

College Preparatory 1: Topics include real numbers, rules of exponents, polynomials, factoring, linear equations, linear inequalities, graphing linear equations and inequalities, and rational expressions. Calculator use is *not* allowed in this course, including the common final examination. An overall grade for the semester of 70 or higher, and a 70 or higher on the final exam indicates that the student has met the criteria for College Preparatory 1 at the RGV - IHEs, and the student is prepared for College Preparatory 2 or Intermediate Algebra at any of the RGV - IHEs without further assessment or remediation.

Intermediate Algebra / College Preparatory 2: Topics include factoring techniques, radicals, algebraic fractions, complex numbers, graphing linear equations and inequalities, quadratic equations, systems of equations, graphing quadratic equations and an introduction to functions. Emphasis is placed on algebraic techniques in order to successfully complete College Algebra. Calculator use is *not* allowed in this course, including the common final examination. An overall grade for the semester of 70 or higher, and a 70 or higher on the final exam indicates that the student has met the RGV – IHEs criteria for College Preparatory

2 and Intermediate Algebra, and the student is prepared for any entry level college mathematics course at the RGV - IHEs without further assessment or remediation.

ENGINEERING MATHEMATICS QS1230

CREDIT (1) 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, material engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming.

ALGEBRAIC REASONING

CREDIT (1) PREREQUISITE: Algebra I

In Algebraic Reasoning, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets

SCIENCE

WESLACO ISD Course No.		Subject	Grade	Credits
03010200	SB0130	BIOLOGY		1
A3010200	SB0290	AP BIOLOGY		1
03040000	SC0130	CHEMISTRY		1
A3040000	SC0290	AP CHEMISTRY		1
03050000	SY0130	PHYSICS		1
A3050001	SY0290	AP PHYSICS B		1
03060201	SP1130	INTEGRATED PHYSICS & CHEMISTRY		1
03060100	SI1530	ASTRONOMY		1
03020000	SI2030	ENVIRONMENTAL SYSTEMS		1
03030000	SI1030	AQUATIC SCIENCE		1
03060000	SG1030	GEOLOGY, METEOROLOGY, & OCEANOGRAPHY		1

BIOLOGY SB0130

CREDIT (1) PREREQUISITE: None

In Biology, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem-solving. Students in Biology 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; ecosystems; and plants and the environment. *** Pre-AP**

AP BIOLOGY SB0290

CREDIT (1) PREREQUISITE: Biology Pre-AP

AP Biology is the study of general biological principles as well as of the more specialized biological sciences. Cytology, developmental biology, genetics, ecology, taxonomy, and various aspects adaptation are integrated within the course. Relationships and applications of concepts within and among various sciences are explored. Laboratory investigations emphasize accurate observations, collection of data, data analysis and the safe manipulation of laboratory apparatus and materials. Students will complete science fair projects. The course is designed to prepare the student to take the Advanced
Placement Biology Exam in May.*** AP, DUAL**

CHEMISTRY SC0130

CREDIT (1) PREREQUISITE: Biology, Algebra I

In Chemistry, students conduct field and laboratory 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: characteristics of matter; energy transformations during physical and chemical changes; atomic structure; periodic table of elements; behavior of gases; bonding; nuclear fusion and nuclear fission; oxidation-reduction reactions; chemical equations; solutes; properties of solutions; acids and bases; and chemical reactions. Students will investigate how chemistry is an integral part of our daily lives. *** Pre-AP**

AP CHEMISTRY SC0290

CREDIT (1) PREREQUISITE: Pre-AP Chem./Algebra 1

AP Chemistry is an in-depth study of chemical concepts and principles encountered in Chemistry I along with specialized areas of chemistry such as organic chemistry, quantitative and qualitative analysis, and nuclear chemistry. Extensive laboratory investigations emphasize accurate observations, collection of data, data analysis, and the operational definition of the concepts and principles of traditional chemistry. Students will complete science fair project. A strong math background is required. This course is designed to prepare the student to take the Advanced Placement Chemistry Exam in May.*** AP**

PHYSICS SY0130

CREDIT (1) PREREQUISITE: Bio/Chem./Algebra 1 & 2

In Physics, students conduct field and laboratory 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; force; thermodynamics; characteristics and behavior of waves; and quantum physics. This course provides students with a conceptual framework, factual knowledge, and analytical and scientific skills. *** Pre-AP**

AP PHYSICS B SY0290

CREDIT (1) PREREQUISITE: Physics, Alg 1 & 2

AP Physics B is an in-depth study of physical concepts and principles encountered in Physics I. This course is designed for the student who intends to major in science or engineering in college. Laboratory investigations emphasize the application of major topics in physics to the world to include a science fair project. A strong math background is essential. The student will be prepared to take the Advanced Placement Physics B Exam in May. *** AP**

INTEGRATED PHYSICS & CHEMISTRY SP1130

CREDIT (1) PREREQUISITE: None

In Integrated Physics and Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem-solving. This course integrates the disciplines of physics and chemistry in the following topics: motion, waves, energy transformations, properties of matter, changes in matter, and solution chemistry.

ASTRONOMY SI1530

CREDIT (1) PREREQUISITE: 1 other science

In Astronomy, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: information about the universe; scientific theories of the evolution of the universe; characteristics and the life cycle of stars; exploration of the universe; role of the Sun in our solar system; planets; and the orientation and placement of the Earth.

ENVIRONMENTAL SYSTEMS SI2030

CREDIT (1) PREREQUISITE: 1 other science

In Environmental Systems, students conduct field and laboratory 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: biotic and abiotic factors in habitats; ecosystems and biomes; interrelationships among resources and an environmental system; sources and flow of energy though an environmental system; relationship between carrying capacity and changes in populations and ecosystems; and changes in environments. *** AP**

AQUATIC SCIENCE SI1030

CREDIT (1) PREREQUISITE: 1 other science

In Aquatic Science, students conduct field and laboratory 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: components of an aquatic ecosystem; relationships among aquatic habitats and ecosystems; roles of cycles within an aquatic environment; adaptations of aquatic organisms; changes within aquatic environments; geological phenomena and fluid dynamics effects; and origin and use of water in a watershed.

GEOLOGY, METEOROLOGY, & OCEANOGRAPHY SG1030

CREDIT (1) PREREQUISITE: 1 other science

In Geology, Meteorology, Oceanography, students conduct field and laboratory 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: characteristics and conditions of the Earth; formation and history of the Earth; plate tectonics; origin and composition of minerals and rocks and the rock cycle; processes and products of weathering; natural energy resources; interactions in a watershed; characteristics of oceans; characteristics of the atmosphere; and the role of energy in weather and climate.

TECHNOLOGY APPLICATIONS

WESLACO ISD Course No.		Subject	Grade	Credits
03580200	MS0171	Pre-AP Computer Science		1
A3580100	MS0191	AP Computer Science A		1
A3580200	MS0291	AP Computer Science AB		1
	M11931	Independent Studies in Computers		1
03580800	TP1030	WEB MASTERING		1
03580700	VV1030	VIDEO TECHNOLOGY		1

Computer Science MS0171
Credit 1 Prerequisite: Enrolled or taking Algebra 1

Computer Science is intended to serve as an introductory course for potential majors in the following fields as well as other fields that significantly involve computing. **Computer Engineering** , which is the designing of hardware for cell phones, MP3 players, dvr's, Alarm Systems, X-Ray machines, Xbox, PlayStation and laser surgical tools. **Software Engineering** is the maintaining and development of software for companies such as banks, hospitals and the government. **Computer Science** spans a large range of fields from theory to cutting edge technology. Such as robotics, computer enhanced vision, computer games, digital animation and digital forensics. **Information Technology** is the solving, troubleshooting and designing of anything from web pages to networks to provide a secure and productive environment. **Information Systems** specialize in designing computing solutions that provide companies the information they need to achieve their goals. The instructional approach is to develop problem-solving skills using the computer and programming skills as tools. This course is open to all grade levels**. Pre-AP**

Computer Science A MS0191
Credit 1 Prerequisite: Algebra 2

AP Computer Science A is an extension of Pre-AP Computer Science, although it is not required for the course it is helpful for students who may not have a strong math background. The course places more emphasize on problem solving skills using computer programming and algorithm efficiently as a teaching tool. The courage goes in depth with data analysis and program correctness. The students are offered the opportunity to take the AP Computer Science A Exam in May. This course satisfies the technology applications graduation requirement or may count as a fourth year math course. This course is open to all grade levels and students who satisfy the Algebra 2 prerequisite. **Advanced Placement**

Computer Science AB MS0291
Credit 1 Prerequisite: Algebra 2 and AP Computer Science A

AP Computer Science AB is an extension of AP Computer Science A and goes into advance algorithms and data structure. Student use advance data structures such as: Linked List, Trees, Set, Maps, Stacks and Queues to solve real world applications. The students are offered the opportunity to take the AP Computer Science AB Exam in May.
This course satisfies the technology applications graduation requirement or may count as a fourth year math course. **Advanced Placement**

Independent Studies in Computers M11931
Credit 1 Prerequisite: Completion of AP Computer Science AB and 12th grader

Students have two options in taking this course.

Option 1: Non-Weighted. The student may choose to take the course in order to explore other aspects of computer science. This may include but not limited to computer programming contest, UIL Contest, learning other programming languages or enhancing and expanding their programming skills. Students must be active in their studies and provide six weeks guideline/syllabus with their goals is. A binder or web page must be maintained to keep record of all activities to be done in the course.

Option 2: **DAP Measure with/without Weight** The student will choose a project of their interest. The project will be overseen by the teacher, and with or without an assigned mentor. The project itself should be of a college or professional level. The project should be completed prior to the end of the 5th six weeks. A presentation of the project must be made before a committee to determine if the project satisfies the requirement of a DAP measure. The committee may include a staff members, administrators or members of the general community who have no relation to the student and are not a current or former teacher of the student. ***In order for the student to receive a weighted grade one or more members of the committee should be a University professor or an established professional in the field of the project who can evaluate***

the project based on its academic and or professional merits. It will be on the recommendation of this person(s) which will determines the amount of weight to be given if any. A guideline will be provided to the evaluator(s). This may be modified by the evaluator(s) as needed.

WEB MASTERING TP1030

CREDIT (1) PREREQUISITE: None

Students will learn to create internet sites. They will learn HTML as well as produce sites on computer programs. They will learn to create digital graphics effective for the Internet. The students will create and maintain the schools web files. Satisfies the technology applications graduation requirement.

VIDEO TECHNOLOGY VV1030 03580700

CREDIT (1) PREREQUISITE: None

Through the study of technology applications foundations, including technology-related terms, concepts, and data input strategies, students learn to make informed decisions about technologies and their applications. Students learn to create television programs, live and animated. Students communicate information in different formats and to diverse audiences. A variety of technologies will be used. Students will analyze and evaluate the results. Satisfies the technology applications graduation requirement.

FINE ARTS

WESLACO ISD Course No.		Subject	Grade	Credits
03150100	AB0131/2/5/6 PES00012	MUSIC BAND I		1
03150100	AB0171/2 PES00012 AB0171/2/5/6 PES00012	SYMPHONY BAND I CP		1
03150200	AB0235/6	MUSIC BAND II		
03150200	AB0271/2 PE00012	SYMPHONY BAND II CP		1
03150300	AB0331/2/5/6	MUSIC BAND III		
03150300	AB0371/2	SYMPHONY BAND III CP		1
03150400	AB0431/2/5/6	MUSIC BAND IV		
03150400	AB0471/2	SYMPHONYN BAND IV CP		1
03150900	AC0131/2	MUSIC CHOIR I		1
03150900	AC0171/2	MUSIC CHOIR I HONORS		1
03151000	AC0231/2	MUSIC CHOIR II		1
03151000	AC0271/2	MUSIC CHOIR II HONORS		1
03151100	AC0331/2	MUSIC CHOIR III		I
03151100	AC0371/2	MUSIC CHOIR III HONORS		1
03151200	AC0431/2	MUSIC CHOIR IV		1
03151200	AC0471/2	MUSIC CHOIR IV HONORS		1
03830100	AD0131/2	DANCE I		
03830200	AD0231/2	DANCE II		
03830300	AD0331/2	DANCE III		
03830400	AD0431/2	DANCE IV		
03830100/200/300/400	AD0136/AD0236/0D0336/AD0436	STARLETS I,II,III,IV (WEHS)		
03150500/600/700/800	AE0131/AE0231/AE0231/AE0232	ORCHESTRA I, II, III, IV		
	AE0331/AE0332/AE0431/AE0432			1
03250100/200/300/400	AH0131/2 AH0231/2 AH0331/2 AH0431/2	THEATRE ARTS I, II, III, IV		1
03151300/400/500/600	AJ0131/2 AJ0231/2 AJ0331/2 AJ0431/2	JAZZBAND I, II, III, IV		
	AM1531/2 AM1631/2	APPLIED MUSIC I & II		.5
03151700/800/900/2000	AO1531/2 AO1631/2 AO1731/2 AO1831/2	EL MARIACHI I, II, III, IV		
03250700/800/900/1000		THEATRE PRODUCTION I, II, III, IV		

	AP0131/2 AP0231/2 AP0331/2 AP0431/2		
03500100	AR0130	ART I	1
		ART II, III, IV	1
		AP ART	1
		DANCE I, II, III, IV	1
		THEATRE ARTS I, II, III, IV	1
		THEATRE PRODUCTIONI, II, III, IV	1
	AT0130 - AT0430	TECHNICAL THEATRE I, II, III, IV	1

MUSIC I, II, III, IV - BAND
MARCHING & CONCERT

CREDIT (1) each year PREREQUISITE: Middle school band or approval

Student will learn marching fundamentals, showmanship, and outdoor playing skills during first semester. Instruction in the art of concert band fundamentals and festival competition is given during the second semester. Band is a year course. Students may receive P.E. credit for semester 1 marching, and fine arts credit for semester 2 concert band.

MUSIC I, II, III, IV - BAND
MARCHING & SYMPHONIC

CREDIT (1) each year PREREQUISITE: Middle school band or approval

Student will learn marching fundamentals, showmanship, and outdoor playing skills during first semester. Instruction in the art of symphonic band fundamentals and festival competition is given during the second semester. Band is a year course. Students may receive P.E. credit for semester 1 marching, and fine arts credit for semester 2 symphonic band.

MUSIC I, II, III, IV - INSTRUMENTAL
CREDIT (1) each year PREREQUISITE: Approval

This is an instrumental ensemble class with a focus on Mariachi music. The student will learn a variety of popular and folk songs from different regions of Mexico. The class will include singing in Spanish and playing the guitar, guitarron and vihuela, which will be provided by the school district. Requires group performance. El Mariachi is a full year course, available for four years or four levels, and students may use the first year to fulfill their fine arts credit, and succeeding years as state graduation elective credit.

MUSIC I, II, III, IV - ORCHESTRA
CREDIT (1) each year PREREQUISITE: Middle school orchestra or approval

Students will perform orchestral literature. Orchestra is a full year course, available for four years/levels,; and students may use the first year to fulfill their fine arts credit, and succeeding years as state graduation elective credit.

MUSIC I, II, III, IV - CHOIR
CREDIT (1) each year PREREQUISITE: Approval

Choir involves preparation for concerts and various competitions throughout the year. Study also involves vocal production techniques and sight-reading practice. Some time in practice outside class-time may be required. Choir class is open to all grades, and approval from the choir teacher is advised.

MUSIC THEORY
CREDIT (1) each year PREREQUISITE: Approval

Final preparation for students interested in pursuing a career in music class - AP concurrent Enrollment.

PACESETTERS/COLOR GUARD (WHS)
I, II, III, IV
CREDIT (.5) PREREQUISITE: Auditions Only
Students are selected by auditions only. Students participating in Band and Color Guard or Pacesetters sign up for Band I - IV. Students not in Band sign up for these courses first semester only and receive Dance/P.E. credit.

STARLETS/COLOR GUARD (WEHS)
I, II, III, IV
CREDIT (.5) PREREQUISITE: Auditions Only
Students are selected by auditions only. Students participating in Band and Color Guard or Starlets sign up for Band I - IV. Students not in Band sign up for these courses first semester only and receive Dance/P.E. credit.

ART I AR0130 03500100
CREDIT (1) PREREQUISITE: None
An introduction to art basics such as perspective, color, and drawing of still life, landscapes and the human body. Art history and the development of various art styles are studied as well. This course is a pre-requisite to all other art courses, and satisfies the fine arts requirement for graduation.

ART II, III, IV
CREDIT (1) each year PREREQUISITE: Art I
Students continue the depth and complexity of the study of art and its applications into various media. The current courses in Art II, III, and IV focus primarily on a continuation of drawing, but may instead specialize in other areas such as ceramics, sculpture, painting, and printmaking.

AP ART
CREDIT (1) PREREQUISITE: Art I-III recommended
May be taken as AP History of Art, AP Art with a concentration in drawing, AP Art with a two-dimensional design portfolio, or AP Art with a three-dimensional design portfolio. The student will take an Advanced Placement Exam in May or submit the appropriate portfolio as required by the College Board and may receive college credit hours depending on the results of the score on the AP Exam/Portfolio.***AP**

DANCE I, II, III, IV
CREDIT (1) each year PREREQUISITE: none
This course focuses on Mexican folkloric dance. In addition, some Country Western, Jazz, Ballet and Modern Dance movement will also be taught. Theory, movement and costume preparation are studied. Performance is required. This course may count for P.E., Fine Arts, or a state graduation elective.

THEATRE ARTS I, II, III, IV
CREDIT (1) each year PREREQUISITE: preceding levels
Activities and instruction include the history of theatre, dramatic criticism, acting techniques, and practical experiences in theatre. Students have the opportunity to participate in such activities as pantomime, acting, set design, set construction, costume design, costume construction, make-up, play analysis, improvisation, oral interpretation, voice and diction, and theatre management. *** CC**

THEATRE PRODUCTION

I, II, III, IV

CREDIT (1) each year PREREQUISITE: Theatre Arts I

Theatre Production is a co-curricular laboratory for elements of theatre. The course supplements other theatre arts and technical theatre courses that concentrate on theories, information, and techniques, by providing for the integration and implementation of those ideas and skills. Practical experiences in acting and stagecraft are provided through public performance. Available as regular or competitive courses.

TECHNICAL THEATRE AT0130 - AT0430

I, II, III, IV

CREDIT (1) each year PREREQUISITE: Theatre Arts I

These classes are uniquely involved with the theatre arts program through such technical aspects as stage lighting, stage carpentry, set design, planning and building costumes, and make-up design and implementation. Involves application of skills during scheduled performances.

LANGUAGES OTHER THAN ENGLISH

WESLACO ISD Course No.		Subject	Grade	Credits
	FN0130 - FN0330	SPANISH I, II, III NON-NATIVE		*1*
	FS0130 - FS0330	SPANISH I, II, III NATIVE		1
A3440100	FS0390 FS03D0	SPANISH II NATIVE PAP SPANISH II NON-NATIVE AP SPANISH LANGUAGE & COMPOSITION		1
A3440200	FS1090FS10D0	AP SPANISH LITERATURE & COMPOSITION		1
03410100 03410300	FF0130	FRENCH I, II, III		1
A3410100	FF0490	AP FRENCH LANGUAGE & COMPOSITION		1

SPANISH I, II, III NON-NATIVE FN0130 - FN0330

CREDIT (1) each year PREREQUISITE: Placement & preceding levels

The development of Spanish listening, speaking, reading and writing proficiencies. Basic vocabulary is expanded, as well as grammatical structure, and cultural studies. For students at a basic proficiency level.

SPANISH I, II, III NATIVE FS0130 - FS0330

CREDIT (1) each year PREREQUISITE: Placement & preceding levels

The development of Spanish listening, speaking, reading and writing proficiencies. Basic vocabulary is expanded, as well as grammatical structure, and cultural studies. For students at a higher initial proficiency.

SPANISH II NATIVE PAP
SPANISH II NON-NATIVE
AP SPANISH LANGUAGE & COMPOSITION
FS0390FS03D0 A3440100

CREDIT (1) PREREQUISITE: Placement & preceding levels

A college level course in Spanish. Students take the AP Spanish language and composition exam in May and can receive college credit hours depending on their score. ***AP, CC (dual)**

AP SPANISH LITERATURE & COMPOSITION FS1090

CREDIT (1) PREREQUISITE: preceding levels

A college level course in Spanish. Students take the AP Spanish literature and composition exam in May and can receive college credit hours depending on their score.*AP, CC (dual)

FRENCH I, II, III FF0130
03410300

CREDIT (1) PREREQUISITE: None

The development of French listening, speaking, reading and writing proficiencies. Basic vocabulary is expanded, as well as grammatical structure, and cultural studies.

AP FRENCH LANGUAGE & FF0490
COMPOSITION

CREDIT (1) PREREQUISITE: French III Pre-AP

A college level course in French. Students take the AP French language and composition exam in May and can receive college credit hours depending on their score.

HEALTH & PHYSICAL EDUCATION

WESLACO ISD Course No.		Subject	Grade	Credits
03810100	PH1035/6	HEALTH I		.5
03820101	PF1135/6	FOUNDATIONS OF PERSONAL FITNESS		.5
03860105/15/25	PT1131/2	TEAM SPORTS		.5
03850104/14	PI1135/6	INDIVIDUAL SPORTS		.5
03840103/13	PR1135/6	AEROBIC ACTIVITIES		.5
03830102	PO1135/6	ADVENTURE/OUTDOOR ED.		.5

HEALTH I PH1035/6

CREDIT (.5) PREREQUISITE: None

In Health I, students develop skills that will make them health-literate adults. Students gain a deeper understanding of the knowledge and behaviors they use to safeguard their health, particularly pertaining to health risks. Students are taught how to access accurate information that they can use to promote health for themselves and others. Health I is required for graduation.

FOUNDATIONS OF PERSONAL FITNESS PF1135/6

CREDIT (.5) PREREQUISITE: None

Foundations of Personal Fitness represents a new approach in physical education and the concept of personal fitness. 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. Required for graduation; waivers or equivalents may be substituted in some cases.

TEAM SPORTS PT1131/2

CREDIT (.5) PREREQUISITE: FPF

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.

INDIVIDUAL SPORTS PI1135/6

CREDIT (.5) PREREQUISITE: FPF

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.

AEROBIC ACTIVITIES PR1135/6

CREDIT (.5) PREREQUISITE: FPF

Students in aerobic activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as
a foundation.

ADVENTURE/OUTDOOR ED. PO1135/6

CREDIT (.5) PREREQUISITE: FPF

Students enrolled in adventure outdoor education are expected to develop competency in outdoor education activities that provide opportunities for enjoyment and challenge. Emphasis is placed upon student selection of activities that also promote a respect for the environment and that can be enjoyed for a lifetime.

MILITARY SCIENCE

WESLACO ISD Course No.		Subject	Grade	Credits
03160100/200/300/400	PJ0130 -PJ0430	RESERVE OFFICERS TRAINING CORPS (ROTC) I, II, III, IV		1
	PJ1030	ROTC LAB I, II, III, IV		1

RESERVE OFFICERS

TRAINING CORPS (ROTC) I, II, III, IV PJ0130 -PJ0430

CREDIT (1) each year PREREQUISITE: Approval

The Reserve Officers Training Corps is a cooperative effort between the U.S. Army and school districts to provide a character and leadership developmental program of military science. It instills the student with an enhanced sense of self-esteem, teamwork, and self-discipline that can be applied to any post-secondary situation. Studies include topics such as military history, geography, service learning, first aid, citizenship, duty, responsibility, communications, leadership, drill and ceremony. Satisfactory completion can lead to advanced placement in the active Army, Army Reserves, or National Guard.

ROTC LAB I, II, III, IV PJ1030

CREDIT (1.0) each year local credit only PREREQUISITE: ENROLLED IN JROTC, APPROVAL

Students may sign up for additional instruction and receive advanced training and drill for the Drill Team, Color Guard, and Rifle Team.

Mission Statement

The Weslaco ISD Career & Technical Education programs will provide a high quality education to include rigor and relevance for College and Career Readiness.

WISD CTE DEPARTMENT

Weslaco ISD's Career & Technical Education (CTE) programs are "*Changing Lives and Building Futures"*. Our teachers and students have been recognized at the regional, state, and national levels for their accomplishments in the classroom, in our community, and in the various competitive events associated with their respective CTE student organizations. We credit this success to strong support by parents, business and postsecondary partners, Weslaco ISD's Board of Trustees, and the Superintendent in providing the resources necessary for quality Career and Technical education programs for Weslaco ISD students.

In addition, we are part of a tremendous statewide initiative known as **Achieve Texas**, a college and career pathway system designed to prepare students for high school and postsecondary education, work life and citizenship while acquiring industry certifications. The goal of WISD Career & Technical Education (CTE) is for students to begin taking courses in high school that will serve as the foundation for a postsecondary education and a preparation for entry level opportunities while acquiring industry certifications for a world-class workforce. When schools integrate academic and technical education, students can see the "usefulness" of what they are learning. This system also facilitates a seamless transition from secondary to postsecondary; for example, Pre-Advanced Placement courses, Advanced Placement courses, Advanced Technical Credit courses (ATC), and Dual credit courses.

Through Achieve Texas' 16 federally defined "career clusters", WISD Career & Technical Education (CTE) is at the forefront in education as it integrates academics with relevant career education through its Small Learning Communities. This initiative uses the sixteen federally defined Career Clusters of the States' Career Clusters initiative (www.careerclusters.org) as the foundation for restructuring how schools arrange their instructional programs. Career clusters are groups of similar occupations and industries developed by the U.S. Department of Education as a way to organize educational planning for students for future careers. Each of the career clusters has an associated Program of Study detailing a recommended sequence of coursework for secondary and postsecondary education based on a student's interest or career goal. Programs of Study (POS) have been developed for each of the Career Clusters. The POS represent a recommended sequence of coursework based on a student's interest or career goal.

CTE establishes "extended learning" through project-based activities, work-based learning opportunities such as Career Preparation or Practicum courses and Job Shadowing participation. Furthermore, Career Technical Student Organizations, or CTSO's, exist for every student to participate in to acquire leadership skills that are vital and essential to their over-all career development.

Employers are demanding that their future employees be able to apply academic and technical skills to real-world problems that are encountered in the workplace. According to the U. S. Department of Labor, 85% of all jobs will require students to further their education beyond high school. CTE is critical in meeting this demand.

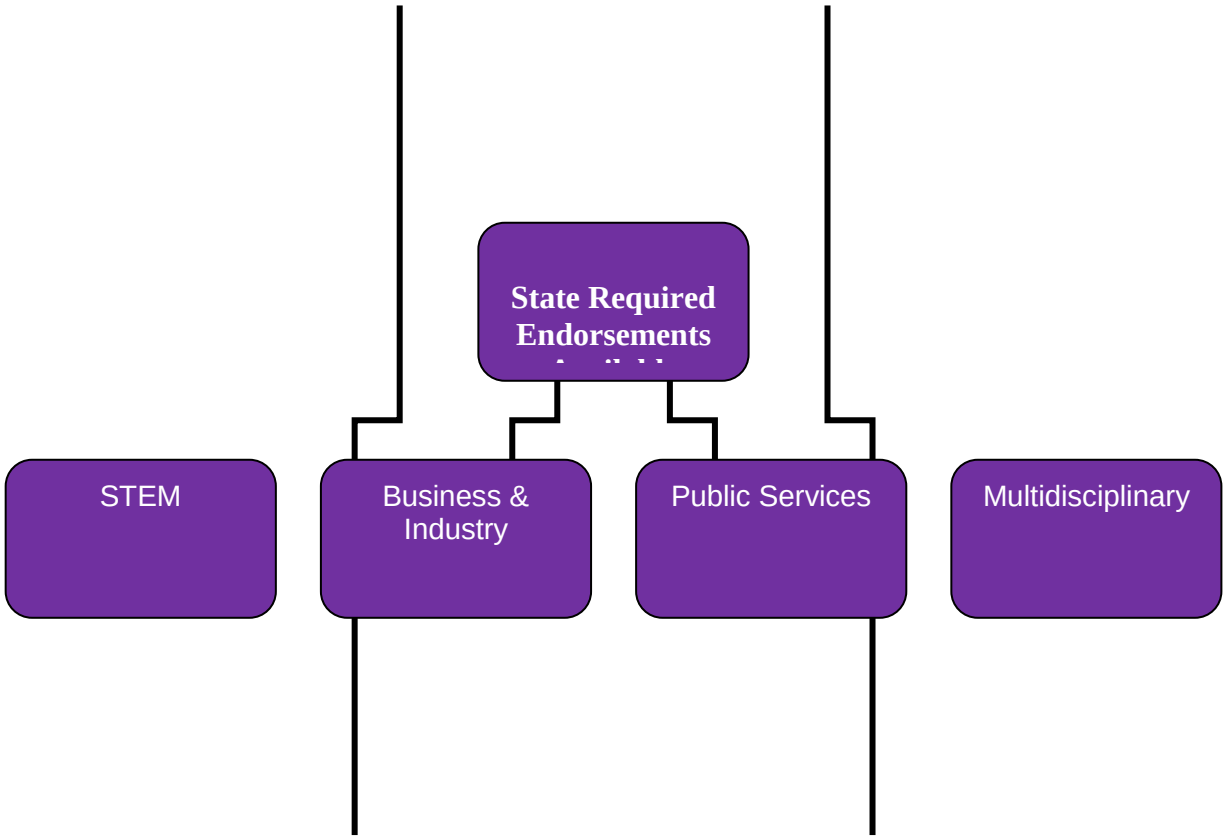
What is the AchieveTexas College and Career Initiative?

"...combining rigorous academics with relevant career education..."

AchieveTexas College and Career Initiative is an education initiative designed to prepare students for a lifetime of success. It allows students to achieve excellence by preparing them for secondary and postsecondary opportunities, career preparation and advancement, meaningful work, and active citizenship.

AchieveTexas is designed to help students (and their parents) make wise education choices. It is based on the belief that the curricula of the 21st century should combine *rigorous* academics with *relevant* career education. When schools integrate academic and technical education, students can see the "usefulness" of what they are learning. The system also facilitates a seamless transition from secondary to postsecondary opportunities.

This initiative used the National Career Clusters™ Framework, which is based upon sixteen federally defined career clusters (HYPERLINK "http://www.careertech.org" http://www.careertech.org), as the foundation for restructuring how schools arrange their instructional programs. A career cluster is a grouping of occupations and broad industries based on commonalities. The sixteen career clusters provide an organizing tool for schools, small learning communities, academies, and magnet schools. Programs of Study (POS) have been developed for each of the career clusters. The POS represent a recommended sequence of coursework based on a student's interest and career goal.



►Engineering ►Mechatronics/Electronics ►Scientific Research & Design	►Accounting ►Agriculture/Veterinary ►Architecture ►Audio/Video Production ►Automotive Technology ►Business ►Collision Repair ►Computer Maintenance ►Construction ►Culinary Arts ►Marketing ►Precision Manufacturing ►Welding ►Diesel Technology	►Cosmetology ►Education ►Health Science – C.N.A., Pharmacy, Medical Billing ►Law and Security	►2 Advanced CTE Courses + Advanced Academic Core 2 ►3 Advanced CTE Courses + Advanced Academic Core 1 ►1 Advanced CTE Course + Advanced Academic Core 3

PROGRAMS OF STUDY

Processing, production, distribution and development of agricultural commodities and natural resources - Occupations involved in this pathway are related to agriculture, the environment, and natural resources, including earth science, environmental science, marine science, plant science, and animal science. These may include horticulturist, fish/game warden, conservationist, biological scientist, geologist, veterinarian, and production agriculture.

Designing, managing, building, and maintaining the built environment. Occupations include construction manager, architect, mechanical drafter, construction and building inspector, painter, stucco mason, tile and marble setter, surveyor and cost estimator.

Creating, exhibiting, performing and publishing multimedia content. Occupations include art director, producer, sound engineering technician, multimedia artist and animator, editor, graphic designer, music director and composer, public relations specialist, choreographer and musician and singer.

Organizing, directing, and evaluating functions essential to productive business operations. Occupations include chief executive, public relations manager, accountant, auditor, customer service representative, human resource assistant, receptionist and clerk, employment specialist and budget analyst.

Providing education and training services, and related learning support services. Occupations include teaching in the following disciplines: law, health specialties, anthropology, archaeology, art, drama, music, career and technical education, foreign languages, kindergarten, library science and communications.

Financial and investment planning, banking, insurance, and business financial management – Occupations include financial manager, actuary, economist, financial analyst, market research analyst, insurance sales agent, credit analyst, personal financial advisor, loan officer, loan counselor, tax preparer and bill and account collector.

Executing governmental functions at the local, state, and federal levels – Occupations include Judge, magistrate, administrative services manager, tax examiner and agent, urban and regional planner, emergency management specialist, substance abuse and behavioral disorders counselor, animal control worker, mediator, hazardous materials removal worker, social and community service manager.

Providing diagnostic and therapeutic services, health informatics, support services, and biotechnology research – Occupations include general dentist, family and general practitioner, physician assistant, physical therapist, respiratory therapy technician, physician assistant, registered nurse, medical records and health information technician, pharmacy technician, nuclear medicine technologist and medical and health services manager.

Managing restaurants and other food services, lodging, attractions, recreation events, and travel-related services – Occupations include food service manager, meeting and convention planner, athlete and sports competitor, host/hostess, waiter/waitress, customer service representative, chef and head cook, coach and scout, umpire, referee and other sports official and amusement and recreation attendant.

Providing for families and serving human needs – Occupations include rehabilitation counselor, mental health counselor, marriage and family therapist, preschool teacher, personal and home care aide, social and human services assistant, medical and public health social worker, financial manager, sales manager, clergy, educational administrator, and personal financial advisor.

Designing, supporting, and managing hardware, software, multimedia, and systems integration – Occupations include network systems and data communications analyst, computer and information systems manager, electrical engineer, computer hardware engineer, computer programmer, security and fire alarm systems installer, database administrator, computer support specialist and computer science teacher.

Providing legal, public safety, protective, and homeland security services – Occupations include police and sheriff's patrol officer, detective and criminal investigator, correctional officer and jailer, lawyer, judge, court reporter, fire inspector, hearing officer, mediator firefighter, paralegal and legal assistant and bailiff.

Processing materials into intermediate or final products – Occupations include general and operations manager, environmental engineer, industrial engineering technician, mechanical engineering technician, avionics technician, welder, cabinetmaker, mobile home installer, medical equipment repairer, electromechanical technician, commercial and industrial designer, purchasing agent and electronic home entertainment equipment installer.

Performing marketing activities to reach organizational objectives – Occupations include sales manager, marketing manager, sales engineer, public relations specialist, real estate broker, market research analyst, appraiser and assessor of real estate, advertising and promotions manager, exhibit designer, cashier, sales worker, counter clerk, retail salesperson and real estate sales agent.

Performing scientific research and professional and technical services – Occupations include biomedical engineer, civil engineer, biochemist, biophysicist, nuclear technician, petroleum engineer, agricultural engineer, environmental science & protection technician, forensic science technician, surveying & mapping technician, biological technician, surveying & mapping technician and physicist.

Managing movement of people, materials, and goods by road, pipeline, air, rail, and water – Occupations include commercial airline pilot, aerospace engineering & operations technician, aircraft mechanic & service technician, automotive service technician, postal service mail carrier, captain of water vessels, postmaster, ship loader, truck driver, traffic technician, sailor and marine oiler, flight attendant, cargo/freight agent and motorboat operator.

Career & Technical Education

Licenses and Certificates

Weslaco ISD Career & Technical Education is proud to provide students with opportunities to earn industry certifications. These valid, reliable certifications provide evidence to potential employers of technical skill attainment in the industry and are a highly valued professional credential, helping students become more employable with higher starting salaries. In addition, they provide local colleges with valuable technical skill attainment information for those students continuing their education at the postsecondary level.

Course	***Industry Certificate/ License***
Collision Repair & Refinishing Advanced Collision Repair & Refinishing	ASE -I-CAR, Inter-Industry Conference on Auto Collision Repair Certification OSHA – Occupational Safety & Health Administration Certification
Automotive Technology Advanced Automotive Technology	ASE-Automotive Service Excellence Student Certification ● ASE-Brakes Certification ● ASE-Electrical/Electronic Certification ● ASE Engine Performance Certification ● ASE Suspension & Steering Certification AYES Internship (Automotive Youth Educational Systems) OSHA – Occupational Safety & Health Administration Certification
Construction Technology Advanced Construction Technology	NCCER-National Center for Construction Education Research Core Certification OSHA – Occupational Safety & Health Administration Certification
Telecommunication and Networking Computer Technician	COMPTIA – Computing Technology Industry Association COMPTIA: A + Certification, IT Fundamentals, Network + ● Network Cabling Specialist-Copper, Fiber Optic ● Leviton Certified Installer-Copper OSHA-Occupational Safety & Health Administration Certification
Architectural Design Advanced Architectural Design	Autodesk Revit Architecture Certified Associate ADDA Certificate OSHA – Occupational Safety & Health Administration Certification
Law Enforcement I and II	NAED – National Academics of Emergency Dispatch Emergency Telecommunications Certification (911 Dispatcher) Texas Private Security Level II – Certificate Corrections Officer
Health Science	BLS/AED CPR - Basic Life Support/Automated External Defibrillator Certification for Health Care Providers
Practicum in Health Science	C.N.A. - Certified Nurse Assistant through NATCEP - Nurse

	Aide Training and Competency Evaluation Program Pharmacy Technician Certification Career Safe Genindustry 10 hr Certification
Audio Video Production Advanced Audio Video Production	Adobe Premiere Pro Certification OSHA – Occupational Safety & Health Administration Certification
Culinary Arts Practicum in Culinary Arts	ServSafe Food Protection Manager
Welding I Advanced Welding	AWS – American Welding Society D 1.1 Micro Edge Fillets – Bend Test and Structural Test NCCER-National Center for Construction Education Research - Core Certification OSHA – Occupational Safety & Health Administration Certification
Engineering Design & Presentation	Solidworks Certification
Accounting I & II	QuickBooks
Agricultural Courses	Veterinary Technician Certification Safe Tractor & Machinery Operator NCCER Welding Certification
Practicum in Education	Substitute Teaching Certification Teacher Aid Certificate
Business Information Mgmt I	MOS Certification (in MS PowerPoint 2013)
Business Information Management II	MOS – Microsoft Office Specialist Certification in MS Word MS Excel
Digital & Interactive Media	Adobe Photoshop Certification
Cosmetology	Cosmetology License OSHA – Occupational Safety & Health Administration Certification
Principles of Information Technology	IC3 – Internet & Computing Core Certification
Web Technologies	Adobe Photoshop, Adobe Illustrator, Adobe InDesign and Adobe Dreamweaver

Career & Technical Education

Certificates, Marketable Skills Awards, and Institutional Achievement Awards

Weslaco ISD Career & Technical Education is proud to provide students with opportunities to earn Certificates, Marketable Skills Awards, and Institutional Awards through South Texas College. These certifications and awards provide evidence to potential employers of technical skill attainment at the college level and are a highly-valued professional credential that helps students become more employable with higher starting salaries. These certificates/awards are earned when students enroll in a specific sequence of dual enrollment courses through Weslaco ISD Career & Technical Education. All courses apply towards a College Certificate and/or an Associate of Applied Science Degree at South Texas College.

South Texas College Business & Technology Division Certificates/Awards
Program Area: Business Computer Systems

Small Learning Community	*High School CTE Courses*	*STC College Courses*	*STC Certificate / Award*
Business & Finance	Business Information Management II-CA Digital & Interactive Media - CA	**ITSC 1409-Integrated Software Applications* **ITSW 2434-Advanced Spreadsheets* **ITSE 2409-Database Programming* **ARTC 1413-Digital Publishing I*	Marketable Skills Certificate: ***Computer Applications*** (16 hrs) **Savings: $1,008.00**
Business & Finance	Business Information Management II-MM Digital & Interactive Media -MM	**ITSE 1409-Integrated Software Applications I* **ITSE 1411 – Beginning Web Page Programming* **IMED 1445 – Interactive Digital Media* *ARTC 1413 – Digital Publishing I*	Marketable Skills Certificate: ***Multimedia Specialist*** (16 hrs) **Savings: $1,008.00**

South Texas College Business & Technology Division Certificates/Awards
Program Area: Business Administration

Small Learning Community	High School CTE Courses	STC College Courses	STC Certificate / Award
Business & Finance	Accounting I Accounting II	*ACNT 1303 *ACNT 1311 *ACNT 1329 *ACNT 1331	Institutional Award in Accounting (16 hrs) **Savings: $1,008.00**
Business & Finance	Entrepreneurship Fashion Marketing	*MRKG 1301 *MRKG 1311 *MRKG 2333 *MRKG 2349	Institutional Award in Marketing (16 Hrs) **Savings: $1,008.00**

South Texas College Business & Technology Division Certificates/Awards
Program Area: Electronic and Computer Maintenance Technology

Small Learning Community	High School CTE Courses	STC College Courses	STC Certificate / Award
Technology, Media & Communications	Telecommunications & Networking Computer Technician	**CPMT 1403 – Intro to Computer Technology* **CPMT 1404- Microcomputer Systems Software* **CPMT 1443- Microcomputer Architecture* *CPMT 1411 – Intro to Computer Maintenance*	Marketable Skills Certificate – ***Computer & Internet Specialist*** (16 Hrs) **Savings: $1,008**

South Texas College Business & Technology Division Certificates/Awards
Program Area: Automotive Technology

Small Learning Community	High School CTE Courses	STC College Courses	STC Certificate / Award
Design & Engineering	Automotive Technology Advanced Automotive Technology	*AUMT 1305 *AUMT 1407 *AUMT 1410 *AUMT 1266	Marketable Skills Achievement Award in Automotive Brake Systems (16 hrs) **Savings: $1,008.00**
Design & Engineering	Automotive Technology Advanced Automotive Technology	*AUMT 1305 *AUMT 1407 *AUMT 1416 *AUMT 1266	Marketable Skills Achievement Award in Automotive Suspension & Steering (16 hrs) **Savings: $1,008.00**

South Texas College Business & Technology Division Certificates/Awards
Program Area: Welding

Small Learning Community	High School CTE Courses	STC College Courses	STC Certificate / Award
Design & Engineering	Welding Advanced Welding	*WLDG 1323 *WLDG 1313 *WLDG 1428 *WLDG 1430	Marketable Skills Achievement Award in Welding (16 hrs) **Savings: $1,008.00**

RIO GRANDE VALLEY

LEAD

LINKING ECONOMIC & ACADEMIC DEVELOPMENT

In the business of education

Section 3, Targeted Industries and Targeted Occupations, includes this information: Lists Targeted Occupations by Industry Sector; AchieveTexas Career Cluster and Educational Requirements. Provides information about college-andcareer-focused programs of study that will help students prepare for one of the occupations included in RGV LEAD's list of Valley Targeted Occupations. Includes an Industry Sector/Career Cluster section describing businesses and job openings in various industry sector/career cluster areas.
Section 3 is designed to answer the following questions: • Which occupations are in demand in the Rio Grande Valley? • What level of compensation (pay) can I expect in those occupations? • What type of secondary and postsecondary preparation do I need to qualify for these occupations? • How long will this preparation take? • Where can I go to get the education and training necessary to qualify?

RGV LEAD

2015 Labor Market Report - Section 3: Targeted Industries and Occupations

Section 3 describes the relationship between targeted industries and targeted occupations. Targeted occupations are those occupations within targeted industries that meet certain selection criteria. Section 3 explains RGV LEAD's selection criteria and provides information about Rio Grande Valley targeted occupations in several formats, including the educational requirements for various targeted occupations. To be consistent with both its education partners, which utilize a career cluster system (public schools and institutions of higher education), and its government/business partners, which utilize an industry cluster/business cluster system (Workforce Solutions, Workforce Solutions Cameron, and other organizations), RGV LEAD has presented information about targeted occupations in both industry cluster and career cluster formats. The primary difference between industry clusters and career clusters is the manner in which work is classified: · Industry clusters classify businesses into sectors and subsectors according to the goods and/or services produced in various business establishments. · Career clusters classify occupations according to the skills, knowledge and abilities required for successful performance of the tasks in each individual occupation. The NAICS Industry Classification System. The North American Industry Classification System (NAICS) is the standard used by the US Census Bureau and other federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S. business economy. The NAICS system groups businesses first into industry sectors, then into subsectors, and finally into establishments or firms. Most of the statistical data provided by federal agencies is available by state, county and Metropolitan Statistical Area (MSA). RGV LEAD has utilized these data to analyze the Valley's labor market and help select RGV LEAD's targeted industries. The AchieveTexas Career Cluster Initiative. The AchieveTexas Career Cluster Initiative is a statemanaged system that is linked to 16 national career clusters. AchieveTexas is a college-and-careerfocused system in which students explore careers, select a career cluster that interests them, then shape personalized graduation plans around this career interest. AchieveTexas incorporates secondarypostsecondary linkages, creating "seamless" education pathways that begin in high school and continue into higher education and/or the workforce. AchieveTexas works well with school districts' implementation of the Foundation High School Program and endorsements, enacted by the Texas Legislature in 2013, and also supports the Texas Higher Education Coordinating Board's 2015-2030 Higher Education Strategic Plan (60x30TX), which has this overall goal: "By 2030, at least 60 percent of Texans ages 25-34 will have a certificate or degree."

For additional information, refer to the information available online, as follows:
· AchieveTexas: www.achievettexas.org
· Texas 2015-2030 Higher Education Strategic Plan: http://www.thecb.state.tx.us/
· National Career Clusters: www.careertech.org/career-clusters.

TARGETED INDUSTRIES Targeted industries are those that employ a large number of people and have a potential for growth and/or stability. Section 2 of this report provides a detailed explanation of the process used to identify RGV LEAD's targeted industries. During 2014 RGV LEAD's targeted industries employed approximately 75% of the

Valley's labor force. The remaining 25% were employed by industry sectors that were not selected as targeted industries because they did not meet RGV LEAD's selection criteria, which are explained in Section 2. (For example, Hospitality and Tourism is a large industry, employing about 15% of the Valley's workforce, but is not a targeted industry because most occupations in that industry are low-paying and either temporary or part-time.) In some cases, occupations that are found in industries that are not targeted industries still appear on the list of RGV LEAD targeted occupations because those occupations are found in multiple industries. For example, Information is not a targeted industry, but computer-related occupations can be found in almost every industry Table 3.1 (which is the same as Table 2.13 in Section 2) provides a listing of RGV LEAD's Targeted industries for 2015 and the relationship of those RGV LEAD Targeted Industries with AchieveTexas Career Clusters and NAICS Industry Sectors. The first column are the titles of the Targeted Industries according to RGV LEAD's constructed terms that include a combination of the NAICS titles and the AchieveTexas Career Cluster titles. The second column converts the RGV LEAD constructed titles to the AchieveTexas Career Cluster titles. The third column converts the RGV LEAD titles to the NAICS titles. The list is in alphabetical order rather than in any type of ranking.

Table 3.1 2015 List of RGV LEAD's Targeted Industries in Alphabetical Order, Cross-Walked with AchieveTexas Career Clusters and NAICS Industry Sectors

RGV LEAD Targeted Industry	Achieve Texas Career Cluster	NAICS Industry Sector
Administrative and Support Services	Administrative Support Services	Administrative and Support Services NAICS 561
	Business Management & Administration	
	Finance	
Business and Financial Operations	Business Management & Administration	Finance and Insurance NAICS 52
	Finance	
	Hospitality & Tourism	
	Information Technology	
	Marketing	
Construction	Architecture & Construction	Construction NAICS 23
	Science, Technology, Engineering & Mathematics	
Education & Training	Education & Training	Educational Services NAICS 61
Health Services	Health Science	Health Care and Social Assistance NAICS 62
	Human Services	
Manufacturing	Manufacturing	Manufacturing NAICS 31-33
	Science, Technology, Engineering & Mathematics	
Public Administration	Government and Public Administration	Public Administration NAICS 92
	Law, Public Safety, Corrections & Security	
Sales & Retail Trade	Arts, Audio/Visual Technology & Communication	Retail Trade NAICS 44-45
	Business Management & Administration	
	Marketing	
Social Services	Health Science	Health Care & Social Assistance NAICS 62
	Human Services	
Transportation, Distribution & Logistics	Transportation, Distribution & Logistics	Transportation & Warehousing NAICS 48-49

The NAICS industry sectors that did not qualify as RGV LEAD targeted industries are listed in Table 3.2.

Table 3.2 Industries Not Selected

NAICS Code	Industry Title
11	Agriculture, Forestry, Fishing and Hunting
21	Mining Quarrying and Oil and Gas Extraction
22	Utilities
42	Wholesale Trade
51	Information
52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific and Technical Services
55	Management of Companies and Enterprises
71	Arts, Entertainment and Recreation
72	Accommodation & Food Services
81	Other Services, except Public Administration

TARGETED OCCUPATIONS The Occupational Outlook Handbook published by the U.S. Department of Labor defines occupation as: A craft, trade, profession, or other means of earning a living. Also, a set of activities or tasks that employees are paid to perform and that together, go by a certain name. Employees who are in the same occupation perform essentially the same tasks, whether or not they work in the same industry. As indicated in the above definition, occupations are not necessarily tied to particular industries. Some occupations can be almost exclusive to a particular industry, such as physicians and surgeons in the Health Care and Social Assistance industry sector, but most occupations consist of tasks that are transferable to many, if not all, industries. (Transferable skills are the skills and abilities that transfer from job to job no matter which occupations individuals occupy. For example, all workers need problem-solving skills, regardless of occupation. Transferable skills are valuable because they can be used in a wide array of work settings.)

RGV LEAD's 2015 Targeted Occupations are drawn from targeted industries; however, not all occupations within each industry are identified as targeted occupations because there is a difference between a targeted occupation and a demand occupation. If there is a need, or demand, for a lot of workers in a certain occupation, then that occupation is considered a demand occupation. However, just being "in demand" is not enough for an occupation to be targeted. Targeted occupations are those that are in demand and also meet defined selection criteria described below.

RGV LEAD's Selection Criteria

RGV LEAD discussed the selection criteria for its targeted occupations list with a group of regional leaders convened in a pre-publication meeting in June 2015. At this meeting these leaders discussed and endorsed the following selection criteria for **RGV LEAD's listing of 2015 Targeted Occupations**:

· The occupations are entry-level positions (only high school graduation, postsecondary education or training, or on-the-job training is required for entry);

· Projections indicate the occupations will have stable growth; and

· The occupations pay an average wage of at least $10.00 an hour (additional information about wage ranges appears in the introduction to Table 3.4). The entry-level requirement is necessary because RGV LEAD works with students who are still in high school or enrolled in postsecondary educational programs; therefore, it is very likely that many will not have prior work experience. The stable growth requirement indicates occupations that are projected to offer good employment opportunities now and in the future. The projections for openings used in this report were calculated by the U.S. Department of Labor based on information gathered from local employers. RGV LEAD has included some occupations with low projections for growth based on input provided by Rio Grande Valley business and community leaders who are familiar with the local labor market. The average wage requirement identifies an occupation paying salaries that are high enough—when considering not only the starting salary but also the potential for advancement—to help provide a good quality of life for a family. Average wages for targeted occupations are based on RGV LEAD's calculations of the minimum salary level required for a single person entering the workforce.

Analysis of Educational Requirements for RGV LEAD's Targeted Occupations Out of the ninety-two (92) occupations included in RGV LEAD's 2015 targeted occupations list, 84% require some postsecondary training and/or education. **Occupations requiring postsecondary education are growing at a much faster rate than those requiring just a high school diploma or equivalent, as illustrated by the summary below**.

· 37 occupations (40%) require high school plus longer term on-the-job training and/or some type of certification that can be earned in high school or a community/technical college;

· 10 occupations (11%) require an Associate's degree;

· 20 occupations (22%) require a Bachelor's degree;

· 5 occupations (5%) require a Master's degree;

· 5 occupations (5%) require a Professional or Advanced degree; and

· 15 occupations (16%) are entry-level occupations that require a high school diploma or equivalent. Nationally, the expected distribution between high-school only and high-school plus additional education and/or training is 40% and 60% respectively. RGV LEAD's targeted occupations have a distribution of 16% and 84%: out of the 92 occupations listed, 15 occupations require high school only and 77 require high-school plus additional education and/or training. RGV LEAD's distribution is similar to the employment projections for 2010-2020 published by the U.S. Bureau of Labor Statistics in the April 2012 issue of the Monthly Labor Review. 1 The Bureau of Labor Statistics projections represent an analysis of growth rather than actual number of projected new jobs. For example, the projections indicate that the fastest growth will be among occupations that require a master's

degree; however, the largest number of new jobs will be in occupations that only require a high school diploma. The projected growth rate for those occupations requiring only a high school diploma is the slowest of all groups. Therefore, the projections indicate that occupations requiring some postsecondary training and/or education will grow at a much faster rate than those requiring just a high school diploma or equivalent. That same pattern appears to be present in the Valley.

The Education Advantage Table 3.3 shows the advantage of acquiring credentials beyond high school. This analysis indicates that education pays! Eighty-four percent (84%) of RGV LEAD's targeted occupations require education beyond high school, and that additional education yields a positive return on that investment. The returns, however, vary by level of education. Also, the return on educational investment varies by occupation, Industry Sector and AchieveTexas Career Cluster. For example, the bachelor's degree required for becoming a Social Worker, with an average hourly wage of $25.00, does not yield a return on educational investment equal to that for becoming a Financial Analyst, with an average hourly wage of $43.00. (Table 3.5 presents a list of RGV LEAD's 2013 Targeted Occupations organized by education requirements.)

Table 3.3 Average Hourly Wages for RGV LEAD's 2015 Targeted Occupations by Level of Education

Level of Education	Average RGV Hourly Wage
High School Diploma or GED	$13.50
Secondary or Postsecondary Certificate	$16.00
Associate's Degree	$26.00
Bachelor's Degree	$27.00
Master's Degree	$40.00
Professional or Advanced Degree	$83.00

Averages were rounded up to the nearest dollar. Averages calculated based on 2014 average hourly wage

Higher hourly salary rates translate to more income for an individual; for example, an individual earning $26.00 per hour would earn $12.90 per hour more than an individual earning $13.50 per hour. If both individuals worked 40-hour weeks, that difference in hourly salary would translate to over $2,200 a month in additional income. On average a Valley person graduating from high school with little or no work experience who is hired into one of RGV LEAD's targeted occupations requiring only a high school diploma can expect an entry- level wage around $9.50 an hour. If the person stays in that occupation, not necessarily with the same employer, for a few years, he/she can expect an average wage somewhere around $13.50 an hour. In contrast, a person who invests a little more time in education and acquires a postsecondary certificate in one of the targeted occupations will earn a greater income. The average wage for an individual with a postsecondary certificate

is around $16.00 an hour, which is $3.00 an hour more than a person with just a high school education, or about $6,000 more a year, and eventually an experienced wage of about $20.00 an hour. Earning a postsecondary certificate can take as little as one year for a Dental Assistant, with an average wage of $15.26, and as much as two years for a certificate as a Cardiovascular Technologist & Technician, with an average wage of $23.50.

The average wage for RGV LEAD's targeted occupations that require an Associate's degree is around $26.00 an hour or $10.00 an hour more than the average wage for an occupation requiring a postsecondary certificate. An associate's degree generally takes at least two years to complete. A bachelor's degree with a specialization in one of the targeted occupations can result in almost the same average wage as that for the associate's degree occupations; but generally takes at least four years to complete. The main reason for the similarity in average wage is that many of the associate's degree occupations are in the Health Services field and these tend to command higher wages than many occupations that require a bachelor's degree. The reason for higher wage has to do with supply and demand. Right now there is a shortage of qualified workers. As the supply increases the wage will decrease.

There is a significant difference between the average hourly wage for targeted occupations requiring a bachelor's degree and those requiring a master's degree. Most master's degree programs take about two years beyond the bachelor's degree to complete and average about $40.00 an hour, or $27.00 an hour more than a bachelor's degree. The time beyond the bachelor degree to complete a professional or advanced degree ranges from three years for a law degree to about eight years for a medical doctor. However, the average hourly wage for both of these occupations is over $80.00 an hour.

The above examples of the differences of average wages for the different educational levels are for illustrative comparison only. That is, this information is included so that students can see an example of the possible return on the investment of the different levels of education. These wages are averages; therefore, they will be different for the individual occupations within each category. Wages also differ based on worker tenure, experience and performance. For example, workers with above-average performance will generally earn more than workers with just average performance even within the same occupation. Students should research their particular occupation(s) of interest.

LISTS OF RGV LEAD'S TARGETED OCCUPATIONS

RGV LEAD's 2015 Targeted Occupations are presented in three formats

: · First, RGV LEAD's targeted occupations are presented according to AchieveTexas Career Cluster. This list includes salary ranges, educational requirements, estimated openings in the Valley from 2008-2018, and education and training opportunities available in the Valley.

· Second, RGV LEAD's targeted occupations are presented according to educational requirements, beginning with occupations requiring only a high school diploma and ending with occupations that require professional degrees.

· Finally, targeted occupations are presented within a Rio Grande Valley Industry Sector Analysis that includes a description of each industry sector, the subsectors most active in the Valley and the targeted occupations in demand in each particular industry sector.

A comparison of RGV LEAD's targeted occupations with those of the two Workforce Solutions boards and VIDA is provided in Section 5 of this report. (Workforce development boards and VIDA have funds that might help cover the cost of postsecondary education and training, although eligibility requirements must be met. This information may be useful for students as they make college-and-career plans. Please refer to Section 5 for additional information.)

RGV LEAD's Targeted Occupations Organized According to AchieveTexas Career Clusters

The AchieveTexas Career Cluster Initiative is college-and-career-focused system in which students explore careers, select a career cluster that interests them, then shape personalized graduation plans around this career interest. AchieveTexas incorporates secondary-postsecondary linkages, and the skills-based AchieveTexas system works well with school districts' implementation of the Foundation High School Program and endorsements and supports the Texas Higher Education Coordinating Board's goal of having at least 60 percent of Texans ages 25-34 completing a certificate or degree by 2030.

Table 3.4 is a summary of the list of RGV LEAD's Targeted Occupations, including wage ranges for targeted occupations, education requirements for various occupations, and opportunities to acquire education and training in the Valley to prepare for those targeted occupations. The higher education institutions named in Table 3.4 provided the education and training information for their institutions.

RGV LEAD encourages schools, colleges, and universities to offer education and training opportunities that will help prepare students to enter and succeed in one of these targeted occupations. RGV LEAD also encourages students and their families to investigate these occupations so that they will have information about career opportunities in the Rio Grande Valley as they make decisions about students' education and career plans. (Additional information for students and families is included in Section 5.)

Explanation of Information Included in Table 3.4

The information included in this table is organized according to AchieveTexas Career Clusters. (For additional information about AchieveTexas Career Clusters and the relationship between those career clusters and the Texas College and Career Readiness Standards, visit the AchieveTexas website at www.achievetexas.org. Some occupations appear in multiple clusters because there are multiple types of businesses that offer employment opportunities for that occupation in the Rio Grande Valley (Cameron, Hidalgo, Starr, and Willacy Counties).

Wages/Salaries: Wage rates for each occupation are shown directly below the title of that occupation. All information about wages for targeted occupations is taken from records of the Texas Workforce Commission for these jobs in the Valley for 2014, the most recent

reporting period for which information is available. (Salaries shown are regional averages and do not reflect the salary one individual might earn at a particular place of business. All wages are shown at hourly rates. The salary rates shown reflect gross earnings and do not reflect either deductions or benefits. Salary rates are given at three levels, in this order: Entry-Level/Average/Experienced (for example, $9.50/$13.06/$14.84). The meaning of the three rates shown is as follows:

· Entry-Level Wages reflect the average starting salary for someone just beginning in this occupation.

· Average Wages reflect the average of salaries paid to all workers, showing what someone would probably earn after working in this occupation for a few years.

· Experienced Wages represent the average wage someone with several years of successful experience could expect to earn in this occupation.

An entry of "NA" means the information is not available from either the U.S. Bureau of Labor Statistics or the Texas Workforce Commission.

Estimated Annual Openings: The estimated annual openings in the table are taken from government records and represent the average number of job openings projected to be available in the Valley each year for the 10-year period indicated. These abbreviations also appear in the Estimated Annual Openings information:

· E = this occupation is an emerging occupation in this region.

· L = local wisdom indicates the demand for this occupation is growing in the region.

Education/Training Needed: The Targeted Occupations List uses these abbreviations to show education and training requirements:

· HS = A high school diploma or GED is the minimum education required to enter this occupation.

· OJT = Some on-the-job training would be required. For the occupations that require on-the-job training, students would usually be hired as trainees and have to successfully complete on-the-job training for the job to become permanent.

· APP = A four-year Apprenticeship program is available for this occupation.

· 1 yr = A postsecondary certificate is required to get this job; the length of certificates varies, ranging from a few weeks to one year (or more).

· 2 yr = An Associate or Associate of Applied Science degree is required to get a job in this occupation.

· 4 yr = A Bachelor's degree is required to get a job in this occupation.

· 5 yr = A Master's degree is required to get a job in this occupation.

· PROF = 3 or more years beyond a bachelor's degree is required for employment in this occupation.

· LIC/CERT = Not only education, but also a license or a state- or industry-recognized certification is required to enter this occupation.

Higher Education Institutions: The institutions shown below, each of which has provided the information included in Table 3.4, are public institutions of higher education that are members of RGV LEAD: STC = South Texas College TSC = Texas Southmost College TSTC = Texas State Technical College UTRGV = The University of Texas Rio Grande Valley

Table 3.4 RGV LEAD's Targeted Occupations for 2015, Organized by AchieveTexas Career Cluster

AGRICULTURAL, FOOD & NATURAL RESOURCES			
The only occupation in this AchieveTexas career cluster that meets RGV LEAD's criteria for targeted occupations is Welders/ Cutters / Solders / Brazers. Please refer to the information for the occupation of Welders / Cutters / Solders/Brazers that appears with Architecture & Construction, below.			
ARCHITECTURE & CONSTRUCTION			
Architects **$19.00 / $32.47 / $38.75**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	L	4 yr	STC (AAS Specialization in Architectural/Civil Drafting—two-year related program, but not bachelor's)
			TSC (AS Architecture)
Carpenters **$9.76 / $13.74 / $15.74**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	35	HS + OJT	STC (Certificate and AAS in Construction Supervision)
			TSC Certificate I in Construction Technology (38 SCH)
			TSTC (AAS in Building Construction Technology)
Cost Estimators **$18.43 / $26.88 / $31.10**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	2 yr or 4 yr + OJT	STC (AAS-Construction Supervision)
			TSTC (AAS in Building Construction Technology)
			UTRGV (BS in Engineering Physics; BS in Civil Engineering; BS in Engineering Technology; BSCE in Computer Engineering; BSMFGE in Manufacturing Engineering; BSME in Mechanical Engineering; BSEE in Electrical Engineering)
Drafters **$16.02 / $26.51 / $31.76**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	L	2 yrs	STC (AAS Specialization in Architectural/Civil Drafting)
			TSC (AAS in Computer-Aided Drafting Technology)
			TSTC (AAS in Architectural Design and Engineering Graphics)
Electricians **$11.00 / $15.12 / $17.17**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	HS + OJT or App	STC (Certificate in Electrician Assistant and AAS in Electrician Technology)
			TSC (Certificate I program in Residential Electrician and AAS program in Commercial and Residential Electrician)

ARCHITECTURE & CONSTRUCTION (Continued)			
Engineers, Civil **$26.19 / $37.43 / $43.05**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	L	4 yrs	STC (AS in Engineering—two-year related AS program that could transfer into a bachelor's program)
			UTRGV (BS in Civil Engineering)
Heating, Air Conditioning/Refrigeration Mechanics and Installers **$12.62 / $16.78 / $18.84**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	25	2 yrs or HS + OJT	STC (AAS in HVAC)
			TSC (AAS in HVAC; Level One Certificate in HVAC)
			TSTC (AAS program in HVAC Technology - Residential Light Commercial Specialization)
Operators, Construction Equipment **$10.97 / $13.74 / $14.96**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	35	HS	N/A
Plumbers, Pipefitters, and Steamers **$10.27 / $14.85 / $17.13**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	HS + OJT	TSC (Level One Certificate in Plumbing: Solar Thermal Technology)
			TSTC (Registered Apprenticeship approved by the U.S. Department of Labor)
Welders/Cutters/Solders/ Brazers **$10.36 / $14.63 / $16.74**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	40	1 yr or 2 yrs	STC (Certificates in Structural Welding and Combination Welding)
			TSC (Continuing Education Program: 9-week Marketable Skills Certificate – Shipyard Welding)
			TSTC (3-semester certificate & 5-semester AAS Welding Technology)

ARTS, A/V TECHNOLOGY & COMMUNICATIONS
The only occupation in this AchieveTexas career cluster that meets RGV LEAD's criteria for targeted occupations is Digital Imaging Technicians/Graphic Designers. Please refer to the information for the occupation of Digital Imaging/Graphic Designers that appears with the Information Technology career cluster below.

BUSINESS MANAGEMENT & ADMINISTRATION (Continued)			
Administrative Support Clerks / Office Clerks, General **$9.55 / $13.12 / $16.68**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	350	HS or 1 yr	STC (Certificate in Office Specialist, AAS in Administrative Office Assistant)
			TSC (Level One Certificate in Administrative Management; Level One Certificate in Office Management; AAS in Business Management and Technology, AA in Business)
			TSTC (AAS in Business Management Technology - Office Management Specialization)
Bookkeeping / Auditing Clerks **$9.21 / $14.20 / $16.68**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	105	HS or 1 yr	STC (Accounting Clerk Certificate, AAS Specialization in Accounting)
			TSC (AAS and Level One Certificate in Accounting Technology)
Business Operations Specialists **$18.74 / $27.96 / $32.57**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	20	4 yrs	STC (BAT in Technology Management)
			TSC (AA in Business)
			TSTC (AAS in Business Management Technology - Office Management Specialization)
			UTRGV (BBA in Management)
			Office Management Specialization)

BUSINESS MANAGEMENT & ADMINISTRATION (Continued)			
Secretaries, Except Executive, Legal, Medical **$8.32 / $12.00 / $13.98**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	110	HS, 1 yr, or 2 yrs	STC (AAS degrees in Legal Office Assistant and Paralegal. Certificate in Legal Office Specialist. Certificate in Medical Office Specialist)
			TSC (Microsoft Certified Specialist)
			TSTC (AAS in Business Management Technology - Office Management Specialization)
EDUCATION & TRAINING			
Bus Drivers – School **$8.71 / $11.64 / $13.10**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	60	HS	N/A
Counselors – School **$20.52 / $26.93 / $30.14**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	40	5 yrs + CERT	UTRGV (M.Ed. in Counseling and Guidance)
Teachers – Elementary **$20.77 / $23.79 / $25.30**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	510	4 yrs + CERT	STC (Associate of Arts in Teaching—two-year related program can transfer to bachelor's)
			TSC (Associate of Arts in Teaching—two-year program for transfer to bachelor's program)
			TSTC (AAS in Education & Training with opportunity for transfer to bachelor's program
			UTRGV (BIS in Interdisciplinary Studies with specializations in Bilingual Education, Early Childhood Education, Special Education, ESL, EC-6; BA in Art EC-12, English 4-8, Spanish EC-12, Social Studies Composite 7-12; BM in Music with concentrations in Guitar, Piano, Vocal, Strings, Brass, EC-12; BS in Health EC-12, Mathematics 4-8, Life Science 4-8, Physical Science 6-12, Kinesiology–EC-12)
Teachers – Middle School **$20.90 / $24.27 / $26.33**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	255	4 yrs + CERT	STC (Associate of Arts in Teaching—two-year related program can transfer to bachelor's)
			TSC (Associate of Arts in Teaching--two-year program for transfer to bachelor's program)
			TSTC (AAS in Education & Training with opportunity for transfer to bachelor's program
			UTRGV (BIS in Interdisciplinary Studies with specializations in Bilingual Education, Special Education, ESL, EC-12; BA in Art EC-12, English 4-8, Spanish EC-12, Social Studies Composite 7-12, History 7-12; BM in Music with concentrations in Guitar, Piano, Vocal, Strings, Brass, EC-12; BS in Biology 7-12, Chemistry 7-12, Health EC-12, Mathematics 4-8, Life Science 4-8, Physical Science 6-12, Kinesiology— EC-12, Physics 7-12)

EDUCATION & TRAINING (Continued)			
Teachers – High School **$20.70 / $24.94 / $27.05**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	340	4 yrs + CERT	STC (Associate of Arts in Teaching—two-year program for transfer to bachelor's program)
			TSC (Associate of Arts in Teaching—two-year program for transfer to bachelor's program)
			TSTC (AAS in Education & Training with opportunity for transfer to bachelor's program
			UTRGV (BIS in Interdisciplinary Studies with specializations in Bilingual Education, , Special Education, ESL, EC-12; BA in Art EC-12, English 7-12, Spanish EC-12, Social Studies Composite 7-12, History 7-12; BM in Music with concentrations in Guitar, Piano, Vocal, Strings, Brass, EC-12; BS in Biology 7-12, Chemistry 7-12, Health EC-12, Mathematics 7-12; Physical Science 6-12, Kinesiology–EC-12, Physics 7-12)
Teacher Assistants **$8.34 / $10.94 / $12.24**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	230	1 yr or 2 yrs	STC (Associate of Arts in Teaching--two-year related program can transfer to bachelor's)
			TSC (Multiple Options, as Follows: • AA Teaching: 4th-8th • AA Teaching: 8th-12th • AA Teaching: Early childhood through 6th grade • AA Teaching: Physical Education EC-12 Grade
			TSTC (4-semester certificate and 5-semester AAS program in Education & Training. AAS options for emphasis: Bilingual Education, Early Childhood Education, General Education, Students with Special Needs)
FINANCE			
Accountants and Auditors **$18.00 / $28.90 / $34.30**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	95	4 yrs	STC (AAS Specialization in Accounting—two-year related program, but not bachelor's)
			TSC (Level One Certificate in Accounting Technology; AAS Accounting – related programs, but not a bachelor's)
			TSTC (AAS in Business Management Technology - Office Management Specialization; Field of Study programs in Business and Communication transferable into bachelor's programs)
			UTRGV (BBA in Accounting)

FINANCE (Continued)			
Financial Analysts **$24.04 / $43.41 / $53.09**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	5	4 yrs	STC (AA in Business Administration—two-year related AA program can transfer to bachelor's.
			UTRGV (BBA in Finance)
Financial Specialists **$17.87 / $26.50 / $30.81**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	5	2 yr or 4 yr	STC (AA in Business Administration—two-year related AA program can transfer to bachelor's)
			UTRGV (BBA in Finance)
GOVERNMENT & PUBLIC ADMINISTRATION			
Compliance Officers **$21.14 / $31.91 / $37.30**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	25	4 yr	UTRGV (Minor in Public Administration)
Eligibility Interviewers, Government Programs **$13.82 / $16.14 / $17.95**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	25	4 yr	UTRGV (Minor in Public Administration)
HEALTH SCIENCE			
Biological Technicians **$8.08 / $14.17 / $17.22**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	5	2 yrs	STC (AS in Biology—two-year related AS program can transfer to bachelor's)
			TSTC (6-semester AAS in Biomedical Equipment Technology)
Cardiovascular Technologists & Technicians **$14.24 / $26.89 / $33.22**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	5	2 yrs	N/A
Dental Assistants **$10.07 / $15.26 / $17.84**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	25	1 yr	TSTC (2-semester certificate program in Dental Assistant)
Dental Hygienists **$24.27 / $30.10 / $33.03**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	15	2 yrs + LIC	TSTC (AAS program in Dental Hygiene)
Dentists **$81.61 / $114.82 / NA**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	PROF	UTRGV (Pre-Dental Bachelor's Programs)
Diagnostic Medical Sonographers **$25.21 / $31.34 / $34.41**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	Local Wisdom	2 yrs + LIC	STC (Advanced Technical Certificate in Diagnostic Medical Sonography)
			TSC (AAS in Diagnostic Medical Sonography)
Emergency Medical Technicians & Paramedics **$10.85 / $16.76 / $18.18**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	45	1 yr or 2 yrs + LIC	STC (AAS in Paramedic, Certificate in Paramedic, Certificate in EMT Intermediate, Certificate in EMT Basic)
			TSC (AAS in Emergency Medical Science)
			TSTC (only through continuing education)

HEALTH SCIENCE (Continued)			
Physical Therapists **$34.64 / $51.71 / $60.10**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	45	PROF	N/A
Physical Therapy Assistants **$28.26 / $38.79 / $44.07**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	15	2 yrs	STC (AAS in Physical Therapist Assistant)
Physicians **$54.63/$96.49/$117.37**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	15	PROF	UTRGV (School of Medicine will open in 2016)
Physician Assistants **$41.21 / $62.56 / $83.23**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	PROF + CERT	UTRGV (MPAS in Physician Assistant Studies)
Radiologic Technologists / Technicians **$16.50/$24.98/$29.22**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	2 yrs + LIC	STC (AAS in Radiologic Technology)
			TSC (AAS in Radiologic Technology)
Registered Nurses **$24.28 / $31.85 / $35.64**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	410	2 yrs or 4 yrs or 6 yrs + LIC	STC (AAS in Nursing)
			TSC (60-credit-hour AAS in Nursing—AND—LVN Advanced Placement)
			TSTC (3year, AAS Registered Nurse Program)
			UTRGV (BS in Nursing, MS in Nursing)
Respiratory Therapists **$22.54 / $27.69 / $30.27**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	20	2 yrs + LIC	STC (AAS in Respiratory Therapy)
			TSC (AAS in Respiratory Care)
Speech-Language Pathologists **$25.23 / $36.85 / $42.65**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	15	5 yrs	UTRGV (MS in Communication Sciences and Disorders)
Surgical Technologists **$17.03 / $23.13 / $26.19**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	20	1 yr + LIC	TSTC (6-semester AAS in Surgical Technology)
HOSPITALITY & TOURISM			
Chefs and Head Cooks **$12.28 / $17.87 / $20.67**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	5	2 yrs + OJT	STC (AAS in Culinary Arts)
			TSTC (3-semester certificate for Food Service Specialist, 5 semester AAS in Culinary Arts)
Cooks, Institutional & Cafeteria **$8.08 / $10.17 / $11.22**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	75	HS + OJT	STC (AAS in Culinary Arts, Certificate in Commercial Cooking)

HUMAN SERVICES			
Counselors: Substance Abuse / Behavioral / Mental Health **$16.92 / $19.53 / $20.83**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	4 yrs or 6 yrs	UTRGV (BS in Rehabilitation Services, MS in Rehabilitation Counseling)
Social & Human Services Assistants **$9.53 / $14.68 / $17.25**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	20	HS + OJT and/or 1 yr or 2 yr	STC (AA in Social Work--two-year related AA program can transfer to bachelor's)
Social Workers (BSW) **$15.29 / $25.00 / $29.87**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	70	4 yr	STC (AA in Social Work-- two-year related AA program can transfer to bachelor's)
			TSC (AA in Social work—two-year related program can transfer to bachelor's)
			UTRGV (BSW in Social Work; MSSW in Social Work)
INFORMATION TECHNOLOGY			
Computer Software Engineers **$28.33 / $39.66 / $45.33**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	5	4 yrs	STC (AS in Computer Science-two-year related AA program can transfer to bachelor's)
			UTRGV (BSCE in Computer Engineering, BSCS in Computer Science)
Computer Support Specialists **$13.19 / $18.42 / $21.04**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	35	2 yrs	STC (AAS in Specialization in Computer Support Specialist)
			TSC (AS in Computer Science; AAS in Computer Information Systems, Level One Certificate in Computer Information Technology)
			TSTC (1-semester certificate and 5-semester AAS in Computer Maintenance Technology)
Computer Systems Analysts **$22.30 / $30.44 / $34.55**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	4 yrs	STC (BAT in Computer & Information Technologies)
			TSC (AS in Computer Science, AAS in Computer Information Systems, Level One Certificate in Computer Information Technology)
			TSTC (1-semester certificate and 5-semester AAS in Computer Maintenance Technology)
			UTRGV (BSCS in Computer Science, BS in Computational Science; BBA in Information Systems)
Database Administrators **$18.54 / $27.52 / $32.00**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	5	4 yrs	STC (BAT in Computer & Information Technologies)
			UTRGV (BSCS in Computer Science, BBA in Information Systems)

INFORMATION TECHNOLOGY (Continued)			
Digital Imaging Technicians / Graphic Designers $9.66 / $16.60 / $20.06	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	2 yrs or 4 yrs	STC (AA in Graphic Arts-- two-year related AA program that could transfer into a bachelor's program)
			TSC (AAS and Level One Certificate in Computer Web Development)
			TSTC (AAS Digital Media and Design Technology)
			UTRGV (BFA in Art with a Focus in Graphic Design)
Telecommunications Installers & Repairers $12.75 / $21.05 / $27.04	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	L	HS + OJT and/or 1 yr or 2 yr	STC (Certificate Telecommunication Technology Specialist)
LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY			
Correctional Officers; Jailers $15.39 / $17.80 / $18.71	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	65	HS or 1 yr	STC (AAS in Law Enforcement, Basic Peace Officer Certificate)
			TSTC (offered through continuing education)
Lawyers $30.12 / $57.72 / $81.51	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	35	PROF	N/A
Legal Secretaries $13.08 / $16.37 /$18.01	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	15	1 yr or 2 yrs	STC (AAS in Paralegal, AAS in Legal Office Assistant)
			TSC (AAS in Paralegal Studies, Level One Certificate in Legal Assisting)
Paralegals and Legal Assistants $11.87 / $18.12 / $31.32	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	2 yrs or 4 yrs	STC (AAS in Paralegal)
			TSC (AAS in Paralegal Studies)
Police / Sheriff / Patrol Officers (also federal jobs such as Border Patrol) $15.24 / $21.44 / $24.54	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	70	HS + OJT or 1 yr or 4 yrs	STC (AAS in Law Enforcement, Basic Peace Officer Certificate, AS in Criminal Justice--two-year related AA program can transfer to bachelor's)
			TSC (Continuing Education Program, 9 Month Academy +LIC; AAS Criminal Justice)
			UTRGV (BSCJ in Criminal Justice, Criminology and Criminal Justice)
Security Guards $8.43 / $10.71 / $11.85	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	110	HS + OJT	N/A

MANUFACTURING			
Engineers (Industrial) **$24.18 / $35.12 / $40.59**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	5	4 yrs	STC (AS in Engineering--two-year related AS program that could transfer into a bachelor's program)
			TSTC (AS programs in Engineering and Physics transferable to baccalaureate programs)
			UTRGV (BS in Engineering Physics; BS in Civil Engineering; BS in Engineering Technology; BSCE in Computer Engineering; BSMFGE in Manufacturing Engineering; BSME in Mechanical Engineering; BSEE in Electrical Engineering)
Engineering Technicians (Various Types) **$14.03 / $18.39 / $20.58**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	2 yrs	TSTC (5-semester AAS in Mechatronics Technology)
Industrial Machinery Mechanics **$10.93 / $17.30 / $20.50**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	HS or 1 yr	N/A
Machinists **$11.94 / $15.84 / $19.93**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	HS or 1 or 2 yrs	STC (AAS in Precision Manufacturing Technology, Certificate in Precision Manufacturing Technology)
			TSTC (3-semester certificate in Toolmaker)
Team Assemblers **$8.40 / $12.10 / $13.95**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	25	HS	N/A
Tool & Die Makers **$14.07 / $16.62 / $17.99**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	L	HS + OJT and/or 1 yr or 2 yr or App	STC (AAS in Precision Manufacturing Technology, Certificate in Precision Manufacturing Technology)
Welders/Cutters/Solders/ Brazers **$10.36 / $14.63 / $16.74**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	40	1 yr or 2 yrs	STC (Certificate in Structural Welding, Certificate in Combination Welding)
			TSC (9-week Marketable Skills Certificate in Shipyard Welding, Continuing Education Program)
			TSTC (3-semester certificate & 5-semester AAS Welding Technology)
MARKETING			
Insurance Sales Agents **$10.00 / $17.27 / $28.57**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	30	HS	N/A

MARKETING (Continued)			
Public Relations Specialists **$11.33 / $19.39 / $23.43**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	4 yrs	STC (AA in Advertising/Public Relations—two-year related AS program that could transfer into bachelor's program)
			UTRGV (BA in Communication Studies, Mass Communication)
Real Estate Agents **$16.80 / $20.12 / $22.23**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	25	1 yr	STC (continuing education program – for information see http://www.gatlineducation.com/southtexas/)
Retail Salespersons **$8.15 / $10.57 / $12.50**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	860	HS	STC (AAS in Business Administration – Specialization, Marketing)
Sales Representatives, Except Retail **$10.69 / $18.33 / $22.15**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	110	HS	N/A
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS			
Engineers (Civil) **$26.19 / $37.43 / $43.05**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	L	4 yrs	STC (AS in Engineering—two-year related AS program that could transfer into a bachelor's program)
			TSTC (two-year related AS program that could transfer into a bachelor's program)
			UTRGV (BS in Civil Engineering)
Engineering Technicians **$14.03 / $18.39 / $20.58**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	L	2 yrs	TSTC (5-semester AAS in Mechatronics Technology)
Mechatronics Technicians **$11.40 / $16.42 / $18.42**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	Emerging Occupation	1 yr or 2 yrs	STC (Certificate in Mechatronics Technology)
			TSC (Level One Certificate in Residential Electrician)
			TSTC (AAS in Mechatronics Technology, Certificate in Wind Energy Technician)
Water, Wastewater Treatment Plant Operators **$10.50 / $13.20 / $14.56**	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	25	1 yr	N/A

TRANSPORTATION, DISTRIBUTION & LOGISTICS			
Automotive Body & Related Repairs $9.15 / $14.76 / $16.14	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	2 yrs or HS + OJT	TSC (Level One Certificate in Auto Body Repair Technology-Body Repair Specialist; Level One Certificate in Auto Body Repair Technology-Refinishing Specialist)
			TSTC (3-semester certificate for Auto Collision Generalist, 4 semester certificate for Auto Collision Technician, 5 semester AAS in Auto Collision & Management Technology - Generalist Specialization)
Automotive Service Technicians / Mechanics / Related Specialists $8.33 / $14.47 / $17.99	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	50	1 yr or 2 yrs	STC (AAS in Automotive Technology, AAS in GM-ASEP, Certificate in Automotive Technology, Ford Youth and Adult Training Program Certificate)
			TSC (AAS in Automotive Technology, Level One Certificate in Auto Mechanics Technology - Line Specialist, Level One Certificate in Auto Mechanics Technology - Parts Specialist, Level One Certificate in Auto Mechanics Technology - Repair Specialist)
			TSTC (12-month Ford YAATC program, 3-semester certificate for Ford Maintenance & Light Repair, 3-semester certificate for Automotive Mechanic, 4-semester certificate for Automotive Technician, 5-semester AAS in Automotive Technology)
Bus / Truck / Diesel Mechanics $10.07 / $15.06 / $17.56	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	HS or 1 yr + OJT	STC (AAS in Diesel Technology, Certificate in Diesel Technology)
Cargo & Freight Agents $8.67 / $16.49 / $20.91	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	10	HS	N/A
Truck Drivers, Heavy/ Tractor-Trailer $9.68 / $16.50 / $20.00+	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	200	HS + OJT**	STC (Continuing Education Program)
Truck Drivers, Light Delivery $8.23 / $12.63 / $14.83	Estimated Annual Openings 2012-2022	Education / Training Needed	Program Available at RGV Public College or University
	60	HS	N/A

** Information provided during gathering of local input for this report indicated that two years' successful experience is required for employment in this occupation.

RGV LEAD's Targeted Occupations Organized According to Educational Requirements

The list in Table 3.5 presents a list of RGV LEAD's 2013 Targeted Occupations organized by education and training requirements, with a crosswalk to the corresponding AchieveTexas Career Cluster for each occupation.

Table 3.5 List of Targeted Occupations by Education and Training Requirements and AchieveTexas Career Cluster

HIGH SCHOOL PLUS SHORT TERM ON-THE-JOB TRAINING	
Occupation	**AchieveTexas Career Cluster**
Bookkeeping, Auditing Clerks	Business Management and Administration
Bus Drivers, School	Transportation, Distribution & Logistics
Cargo & Freight Agents	Business Management & Administration; Transportation, Distribution & Logistics
Correctional Offices; Jailers	Law, Public Safety, Corrections & Security
Customer Service Representatives	Business Management and Administration
Insurance Sales Agents	Marketing
Office Clerks, General; Administrative Support Clerks	Business Management & Administration
Operators, Construction Equipment	Architecture & Construction
Retail Salespersons	Marketing
Sales Representative, except Retail	Marketing
Secretaries, except Executive, Legal or Medical	Business Management & Administration
Security Guards	Law, Public Safety, Corrections & Security
Social & Human Service Assistants	Human Services
Team Assemblers	Manufacturing
Truck Drivers, Light Delivery	Transportation, Distribution & Logistics
HIGH SCHOOL PLUS LONG TERM ON-THE-JOB TRAINING AND/OR SECONDARY OR POSTSECONDARY CERTIFICATE	
Occupation	**AchieveTexas Career Cluster**
Automotive Body & Related Repairers	Transportation, Distribution & Logistics
Automatic Service Technicians/ Mechanics Related Specialists	Transportation, Distribution & Logistics
Bus, Truck Mechanics/ Diesel Mechanics	Transportation, Distribution & Logistics
Carpenters	Architecture & Construction
Chefs & Head Cooks	Hospitality & Tourism
Claims Adjuster, Exam; Investigator	Business Management & Administration
Computer Support Specialists	Information Technology
Cooks, Institution & Cafeteria	Hospitality & Tourism

HIGH SCHOOL PLUS LONG TERM ON-THE-JOB TRAINING AND/OR SECONDARY OR POSTSECONDARY CERTIFICATE (Continued)	
Occupation	**AchieveTexas Career Cluster**
Dental Assistants	Health Science
Drafters	Architecture & Construction
Electricians	Architecture & Construction
Emergency Medical Technicians/Paramedics	Health Science
Engineering Technicians	Manufacturing; Science, Technology, Engineering & Mathematics
Executive Secretaries; Administrative Assistants	Business Management & Administration
Heating, Air Conditioning / Refrigeration Mechanics and Installers	Architecture & Construction
Industrial Machinery Mechanics	Manufacturing
Legal Assistants & Paralegals	Law, Public Safety, Corrections & Security
Legal Secretaries	Law, Public Safety, Corrections & Security
Licensed Vocational Nurse	Health Science
Machinists	Manufacturing
Mechatronics Technicians	Science, Technology, Engineering & Mathematics
Medical Assistants	Health Science
Medical Records & Health Information Technicians	Health Science
Medical Secretaries	Health Science
Medical Transcriptionists	Health Science
Pharmacy Technicians	Health Science
Plumbers, Pipefitters & Steamers	Architecture & Construction
Police, Sheriff, Patrol Officers (also federal jobs such as Border Patrol Agents)	Law, Public Safety, Corrections & Security
Real Estate Agents	Marketing
Surgical Technologists	Health Science
Teacher Assistants	Education & Training
Truck Drivers, Heavy; Tractor Trailer	Transportation; Distribution & Logistics
Water; Wastewater Treatment Plant Operator	Science, Technology, Engineering & Mathematics
Welders, Cutters, Solders, Brazers	Architecture & Construction; Manufacturing

HIGH SCHOOL PLUS LONG TERM ON-THE-JOB TRAINING AND/OR SECONDARY OR POSTSECONDARY CERTIFICATE (Continued)	
Occupation	**AchieveTexas Career Cluster**
Dental Assistants	Health Science
Drafters	Architecture & Construction
Electricians	Architecture & Construction
Emergency Medical Technicians/Paramedics	Health Science
Engineering Technicians	Manufacturing; Science, Technology, Engineering & Mathematics
Executive Secretaries; Administrative Assistants	Business Management & Administration
Heating, Air Conditioning / Refrigeration Mechanics and Installers	Architecture & Construction
Industrial Machinery Mechanics	Manufacturing
Legal Assistants & Paralegals	Law, Public Safety, Corrections & Security
Legal Secretaries	Law, Public Safety, Corrections & Security
Licensed Vocational Nurse	Health Science
Machinists	Manufacturing
Mechatronics Technicians	Science, Technology, Engineering & Mathematics
Medical Assistants	Health Science
Medical Records & Health Information Technicians	Health Science
Medical Secretaries	Health Science
Medical Transcriptionists	Health Science
Pharmacy Technicians	Health Science
Plumbers, Pipefitters & Steamers	Architecture & Construction
Police, Sheriff, Patrol Officers (also federal jobs such as Border Patrol Agents)	Law, Public Safety, Corrections & Security
Real Estate Agents	Marketing
Surgical Technologists	Health Science
Teacher Assistants	Education & Training
Truck Drivers, Heavy; Tractor Trailer	Transportation; Distribution & Logistics
Water; Wastewater Treatment Plant Operator	Science, Technology, Engineering & Mathematics
Welders, Cutters, Solders, Brazers	Architecture & Construction; Manufacturing

ASSOCIATE'S DEGREE	
Occupation	**AchieveTexas Career Cluster**
Biological Technicians	Health Science
Cardiovascular Technologist & Technicians	Health Science
Dental Hygienist	Health Science
Diagnostic Medical Sonographer	Health Science
Occupational Therapy Assistants	Health Science
Physical Therapy Assistants	Health Science
Radiologic Technologists Technicians	Health Science
Registered Nurse	Health Science
Respiratory Therapist	Health Science
BACHELOR'S DEGREE	
Occupation	**AchieveTexas Career Cluster**
Accountants & Auditors	Business Management & Administration; Finance
Architects	Architecture & Construction
Business Operations Specialist	Business Management & Administration
Digital Imaging Technicians / Graphic Designers	Information Technology
Engineers, Civil	Architecture & Construction; Science, Technology, Engineering & Mathematics
Engineers, Industrial	Manufacturing
Computer Software Engineers	Information Technology
Computer Systems Analyst	Information Technology
Cost Estimators	Architecture & Construction
Counselors, Substance Abuse; Behavioral; Mental Health	Human Services
Database Administrators	Information Technology
Financial Analysts	Finance
Medical Clinical Laboratory Technologist	Health Science
Public Relations Specialist	Marketing
Social Workers	Human Services
Teachers, Elementary	Education & Training
Teachers, Middle School	Education & Training
Teachers, Secondary	Education & Training

MASTER'S DEGREE	
Occupation	**AchieveTexas Career Cluster**
Counselors; School	Education & Training
Occupational Therapist	Health Science
Physical Therapists	Health Science
PROFESSIONAL OR ADVANCED DEGREE	
Occupation	**AchieveTexas Career Cluster**
Lawyers (Attorneys)	Law, Public Safety, Corrections and Security
Physicians Assistants	Health Science
Physicians	Health Science
Pharmacists	Health Science
Dentists	Health Science

Information Regarding Computation of Salaries

RGV LEAD's Targeted Occupations List in Table 3.4 shows salary ranges in terms of hourly wages. Some workers are paid hourly but others are paid weekly, biweekly, monthly, or annually. The illustration below shows steps for salary conversions that educators can use for communicating with students and their families. The supplemental information included in Section 5 may also be helpful in discussing targeted occupations and related salaries with students and their families.

Figure 3.1 How to Compute Salary Conversions—Annual, Weekly, and Hourly Salary Rates

Part A. How to Compute an Annual Salary When Given an Hourly Salary			
Steps to Be Taken	***Example***		
1. Compute the weekly salary by multiplying the hourly wage by the number of hours in an average work week (40 hours).	Hourly salary	X No. of Hours	= Weekly salary
	$14.43	X 40	= $577.20
2. Compute the annual salary by multiplying the weekly salary by the number of weeks in a year (52 weeks).	Weekly salary	X No. of Weeks	= Annual Salary
	$577.20	X 52	= $30,014.40
Part B How to Compute an Hourly Salary When Given an Annual Salary			
Steps to Be Taken	***Example***		
1. Compute the weekly salary by dividing the annual salary by the number of weeks in a year (52 weeks).	Annual salary	÷ No. of Weeks	= Weekly salary
	$22,000.00	÷ 52	= $423.08
2. Compute the hourly salary by dividing the weekly salary by the number of hours in an average work week (40 hour).	Weekly salary	÷ No. of Hours	= Hourly Salary
	$423.08	÷ 40	= $10.58

STEM ENDORSEMENT

PROGRAM OF STUDY ENGINEERING

Program of Study: ENGINEERING

9TH	*Principles of Information Technology*
10TH	*Concepts of Engineering*
11TH	*Engineering Design & Presentation*
12TH	*Advanced Engineering Design & Presentation or Practicum in STEM I or II*

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Petroleum Engineer	$60.85	$33.20	$74.67
Geoscientist	$59.48	$31.01	$73.72
Natural Science Manager	$56.72	$36.31	$66.93
Agricultural Engineer	$51.10	$27.34	$61.49
Physicists	$45.96	$24.46	$56.71
Civil Engineer	$40.41	$24.54	$48.34
Biochemist	$38.95	$20.82	$48.01
Atmospheric and Space Scientist	$32.76	$12.44	$42.92
Materials Scientist	$34.84	$19.40	$42.56
Biomedical Engineer	$29.15	$18.17	$34.64

This is a chart of hourly wages for 10 of the top-paying careers in the Science, Technology, Engineering & Mathematics cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Principles of Information Technology
9-10
1 Credit
ATC – QT46A0 – PEIMS#13027200
Prerequisite: None - This course introduces students to an array of computer applications in route to fields in Computer Programming, Computer Maintenance, or Information Technology. The student will learn about computer hardware and software and how the two interact for producing spreadsheets from databases, creating or editing photos, video and music, creating and publishing websites or communicating through networks. *This course meets the requirements for one credit of Technology Applications.*

Concepts of Engineering
9-10
1 Credit
QS1530 – PEIMS#13036200
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 this 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.

Engineering Design & Presentation
10-12
2 Credits
ATC, Dual, QT30A0, QT30D0 – PEIMS#13036500
Prerequisite: Concepts of Engineering and Technology - This course focuses on the concepts of involved in Manufacturing Engineering and Mechanical Engineering. The student will develop an understanding of 2D and 3D models of real world objects using Computer Aided Design (CAD) software. CNC Machining and 3D printing will also be introduced. The approach of this course is to give students tools that will allow them to create designs and present ideas and solve problems.

Advanced Engineering Design & Presentation
11-12
2 Credits
QT3130 – PEIMS#13036600
Pre-requisite: Engineering Design & Presentation - This course will provide students the opportunity to master computer software applications in a variety of engineering and technical fields. This course further develops the process of engineering thought and application of the design process.

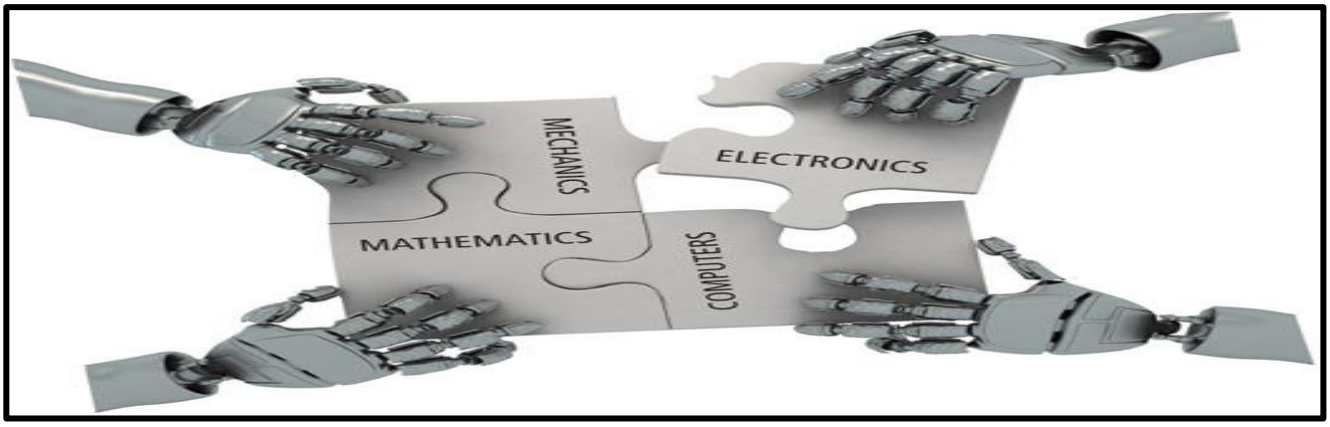
Practicum in Science, Technology, Engineering, and Mathematics (STEM) I & II
11-12
2-3 credits
QT3230 - PEIMS#13037400, QT3330 – PEIMS#13037410
The practicum course is a paid or unpaid capstone experience and is designed to give students

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Petroleum Engineer	$60.85	$33.20	$74.67
Geoscientist	$59.48	$31.01	$73.72
Natural Science Manager	$56.72	$36.31	$66.93
Agricultural Engineer	$51.10	$27.34	$61.49
Physicists	$45.96	$24.46	$56.71
Civil Engineer	$40.41	$24.54	$48.34
Biochemist	$38.95	$20.82	$48.01
Atmospheric and Space Scientist	$32.76	$12.44	$42.92
Materials Scientist	$34.84	$19.40	$42.56
Biomedical Engineer	$29.15	$18.17	$34.64

This is a chart of hourly wages for 10 of the top-paying careers in the Science, Technology, Engineering & Mathematics cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: MECHATRONICS

9TH	*Principles of Information Technology*
10TH	*Computer Maintenance, Concepts of Engineering*
11TH	*Mechatronics*
12TH	*Advanced Mechatronics*



Principles of Information Technology
9-10
1 Credit
ATC – QT46A0 – PEIMS#13027200
Prerequisite: None - This course introduces students to an array of computer applications in route to fields in Computer Programming, Computer Maintenance, or Information Technology. The student will learn about computer hardware and software and how the two interact for producing spreadsheets from databases, creating or editing photos, video and music, creating and publishing websites or communicating through networks. *This course meets the requirements for one credit of Technology Applications.*

Computer Maintenance
10-12
1 Credit
ATC – QT22A0 – PEIMS#13027300
Prerequisites: Principles of Information Technology - Students acquire principles of Computer Maintenance, including electrical and electronic theory, computer hardware principles, and broad level components related to the installation, diagnosis, service, and repair of computer systems. To prepare for success, students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Mechatronics (aka Electronics)
10-12
2 Credits
ATC, Dual – QT40A0, QT40D0 – PEIMS#13036800
Prerequisite - Concepts of Engineering This specialization is a blend of mechanics and electronics. Mechatronics implements techniques in precision mechanical engineering, controls theory, computer maintenance and electronics technology. This program will prepare students with the hands-on training they need to work in this industry. Graduates may find employment as technicians assisting engineers. Students enrolled in this course will demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation. Through use of the design process, students will transfer academic skills to component designs in a project-based environment. Students will use a variety of computer hardware and software applications to complete assignments and projects. Additionally, students explore career opportunities, employer expectations, and educational needs in the electronics industry.

Advanced Mechatronics (aka Advanced Electronics)
11-12
2 Credits
Dual – QT42D0 – PEIMS#13036900
Prerequisite: Mechatronics - Students enrolled in this course will demonstrate knowledge and applications of advanced circuits, electrical measurement, and electrical implementation used in the

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Environmental Engineer	$35.97	$22.87	$42.53
Conservation Scientist	$25.49	$17.49	$29.49
Purchasing Agent & Buyer Farm Prod.	$25.26	$13.23	$31.27
Power Plant Operator	$24.41	$18.52	$27.35
Zoologist and Wildlife Biologist	$23.10	$11.50	$28.91
Gas Plant Operator	$22.70	$18.02	$25.04
Farm, Ranch & Other Agric. Manager	$20.40	$13.24	$23.98
Environmental Engineering Technician	$20.25	$13.00	$23.87
Geological & Petroleum Technician	$19.11	$9.50	$23.91
First-Line Supervisor-Farming, Fishing, Forestry	$18.76	$10.98	$22.65

This is a chart of hourly wages for 10 of the top-paying careers in the Agriculture, Food & Natural Resources cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

BUSINESS AND INDUSTRY

Program of Study: VETERINARY TECHNICIAN	
9TH	*Principles of Agriculture, Food & Natural Resources*
10TH	*Livestock Production*
11TH	*Veterinary Medical Applications*
12TH	*Practicum in Agriculture (Veterinary Technician II students)*

Principles of Agriculture, Food & Natural Resources
9-12
1 Credit
QA3830 – PEIMS#13000200
To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.
Livestock Production
10-12
1 Credit
ATC - QA18A0– PEIMS#13000300
A course designed to develop knowledge and skills pertaining to the nutrition, reproduction, health, and management of domestic animals. This course introduces the common veterinary skills and procedures used on livestock, anatomy of livestock, genetics and reproduction, and diseases that can affect all livestock animals.
Veterinary Medical Applications
11-12
1 Credit
ATC - QA61A0 – PEIMS#13000600
To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species. The student, for at least 40% of instructional time, conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices.
Practicum in Agriculture (Veterinary Technician 2nd year students)
11-12
3 Credit
QA8030 – PEIMS#13002500
This course is recommended for students in Grades 11-12. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. Recommended prerequisite: a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories.

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Environmental Engineer	$35.97	$22.87	$42.53
Conservation Scientist	$25.49	$17.49	$29.49
Purchasing Agent & Buyer Farm Prod.	$25.26	$13.23	$31.27
Power Plant Operator	$24.41	$18.52	$27.35
Zoologist and Wildlife Biologist	$23.10	$11.50	$28.91
Gas Plant Operator	$22.70	$18.02	$25.04
Farm, Ranch & Other Agric. Manager	$20.40	$13.24	$23.98
Environmental Engineering Technician	$20.25	$13.00	$23.87
Geological & Petroleum Technician	$19.11	$9.50	$23.91

First-Line Supervisor-Farming, Fishing, Forestry	$18.76	$10.98	$22.65

Program of Study: ANIMAL SCIENCES

9TH	*Principles of Agriculture, Food & Natural Resources*
10TH	*Equine Science*
11TH	*Veterinary Medical Applications*
12TH	*Advanced Animal Science*

This is a chart of hourly wages for 10 of the top-paying careers in the Agriculture, Food & Natural Resources cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Principles of Agriculture, Food & Natural Resources
9-12
1 Credit
QA3830 – PEIMS#13000200
To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.
Equine Science
10-12
1 Credit
ATC - QA60A0 – PEIMS#13000500
Prerequisite: None - To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules.
Veterinary Medical Applications
11-12
1 Credit
ATC - QA61A0 – PEIMS#13000600
To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species. The student, for at least 40% of instructional time, conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices.
Advanced Animal Science
12

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Environmental Engineer	$35.97	$22.87	$42.53
Conservation Scientist	$25.49	$17.49	$29.49
Purchasing Agent & Buyer Farm Prod.	$25.26	$13.23	$31.27
Power Plant Operator	$24.41	$18.52	$27.35
Zoologist and Wildlife Biologist	$23.10	$11.50	$28.91
Gas Plant Operator	$22.70	$18.02	$25.04
Farm, Ranch & Other Agric. Manager	$20.40	$13.24	$23.98
Environmental Engineering Technician	$20.25	$13.00	$23.87
Geological & Petroleum Technician	$19.11	$9.50	$23.91
First-Line Supervisor-Farming, Fishing, Forestry	$18.76	$10.98	$22.65

This is a chart of hourly wages for 10 of the top-paying careers in the Agriculture, Food & Natural Resources cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: AGRICULTURAL MECHANICS	
9TH	*Principles of Agriculture, Food & Natural Resources*
10TH	*Agricultural Mechanics & Metal Technologies*
11TH	*Agricultural Power Systems*
12TH	*Practicum in Agriculture*

Principles of Agriculture, Food & Natural Resources
9-12
1 Credit
QA3830 – PEIMS#13000200
To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

Agricultural Mechanics and Metal Technologies
10-12
1 Credit
ATC - QA13A0– PEIMS#13002200
To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

Agricultural Power Systems
10-12
1 Credit
QA1530/QA15D0 – PEIMS#13002400 (Dual at CTE ECHS only)
To be prepared for careers in agricultural power, structural, and technical systems, students should attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the workplace; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students should have opportunities to learn, reinforce, apply, and transfer their knowledge and technical skills in a variety of settings. This course is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machinery.

Practicum in Agriculture 11-12
3 Credit
QA8030 – PEIMS#13002500
This course is recommended for students in Grades 11-12. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. Recommended prerequisite: a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources cluster. The practicum is designed to give students supervised practical application of

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Engineering Manager	$63.26	$42.64	$73.57
Geoscientists	$59.48	$31.01	$73.72
Construction Manager	$34.10	$20.81	$40.75
Electronics Engineer	$41.98	$28.81	$48.86
Electrical Engineer	$44.61	$29.35	$52.23
Architect	$35.21	$20.14	$42.75
Civil Engineer	$40.41	$24.54	$48.34
Environmental Engineer	$34.55	$19.28	$42.19
Mechanical Engineer	$24.97	$16.83	$29.04
Sales Rep, Wholesale & Manufacturing	$35.46	$18.64	$43.87

This is a chart of hourly wages for 10 of the top-paying careers in the Architecture & Construction cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: ARCHITECTURAL DRAFTING

9TH	*Principles of Information Technology or Business Information Management I*
10TH	*Principles of Architecture & Construction*
11TH	*Architectural Design*
12TH	*Advanced Architectural Design*

Principles of Information Technology
9-10
1 Credit
ATC – QT46A0 – PEIMS#13027200
Prerequisite: None - This course introduces students to an array of computer applications in route to fields in Computer Programming, Computer Maintenance, or Information Technology. The student will learn about computer hardware and software and how the two interact for producing spreadsheets from databases, creating or editing photos, video and music, creating and publishing websites or communicating through networks. *This course meets the requirements for one credit of Technology Applications.*

Business Information Management I
9-12
1 Credit
ATC – QB60A0 – PEIMS#13011500
Prerequisite: Touch Systems Data Entry - Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. *This course meets the requirements for one credit of Technology Applications.*

Principles of Architecture & Construction
9-12
1 Credit
ATC – QT37A0 – PEIMS#13004200
Principles of Architecture and Construction provides an overview to the various fields of architecture, interior design, construction science, and construction technology. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, educational, and career information to set and achieve realistic career and educational goals. Job-specific, skilled training can be provided through the use of training modules to identify career goals in trade and industry areas. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom such as communications; problem solving and critical thinking; Information Technology Applications; systems; safety, health, and environmental; leadership and teamwork; ethics and legal responsibilities; employability and career development; technical skills; introduction to hand tools; introduction to power tools; basic rigging; and reading technical drawings.

Architectural Design
10-12
2 Credits
ATC, Dual – QT70A0, QT70D0 – PEIMS#13004600
Prerequisites: Algebra I, Geometry, and Principles of Architecture and Construction. In Architectural Design, students gain knowledge and skills specific to those needed to enter a career in architecture of prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design and landscape architecture. Architectural Design includes the design, design history, techniques and tools related to the production of drawings, renderings and scale models for residential architectural purposes.

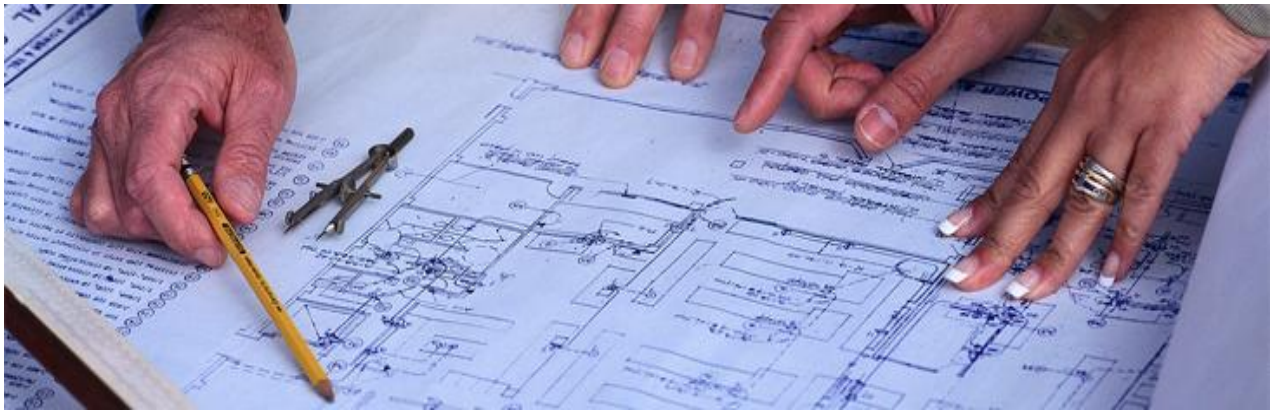
Advanced Architectural Design
11-12
2 Credits
ATC, Dual – QT71A0, QT71D0 – PEIMS#13007400
Students gain advanced knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Advanced Architectural Design includes the advanced knowledge of

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Engineering Manager	$63.26	$42.64	$73.57
Geoscientists	$59.48	$31.01	$73.72
Construction Manager	$34.10	$20.81	$40.75
Electronics Engineer	$41.98	$28.81	$48.86
Electrical Engineer	$44.61	$29.35	$52.23
Architect	$35.21	$20.14	$42.75
Civil Engineer	$40.41	$24.54	$48.34
Environmental Engineer	$34.55	$19.28	$42.19
Mechanical Engineer	$24.97	$16.83	$29.04
Sales Rep, Wholesale & Manufacturing	$35.46	$18.64	$43.87

This is a chart of hourly wages for 10 of the top-paying careers in the Architecture & Construction cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: CONSTRUCTION

9TH	*Principles of Information Technology or Business Information Management I*
10TH	*Construction Management*
11TH	*Construction Technology*
12TH	*Advanced Construction Technology*



Principles of Information Technology
9-10
1 Credit
ATC – QT46A0 – PEIMS#13027200
Prerequisite: None - This course introduces students to an array of computer applications in route to fields in Computer Programming, Computer Maintenance, or Information Technology. The student will learn about computer hardware and software and how the two interact for producing spreadsheets from databases, creating or editing photos, video and music, creating and publishing websites or communicating through networks. *This course meets the requirements for one credit of Technology Applications.*

Business Information Management I
9-12
1 Credit
ATC – QB60A0 – PEIMS#13011500
Prerequisite: Touch Systems Data Entry - Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. *This course meets the requirements for one credit of Technology Applications.*

Construction Management
10-12
1 Credit
ATC, QT45A0 – PEIMS#13004900
Prerequisites: Algebra I, Geometry, and Principles of Architecture and Construction - In Construction Management, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management includes the knowledge of the design techniques and tools related to the management of architectural and engineering projects.

Construction Technology
10-12
2 Credits
ATC, Dual QT44A0, QT44D0 –PEIMS#13005100
Prerequisite: Principles of Architecture and Construction - In Construction Technology, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or prepare for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

Advanced Construction Technology
10-12
2 Credits
ATC, Dual QT18A0, QT18D0 – PEIMS#13005200
Prerequisites: Principles of Architecture and Construction and Construction Technology - In Advanced Construction Technology, students gain advanced knowledge and skills specific to those needed to enter the work force as carpenters, building maintenance technicians, or supervisors or prepare for a

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
General & Operations Manager	$42.74	$19.78	$54.23
Environmental Engineer	$35.97	$22.87	$42.53
Commercial & Industrial Designer	$25.07	$13.39	$30.91
Industrial Engineering Technician	$24.46	$15.42	$28.98
Electrical & Electronic Engineering Tech	$24.06	$15.75	$28.22
Mechanical Engineering Technician	$23.41	$15.71	$27.27
Purchasing Agent	$23.39	$14.69	$27.74
First-Line Supervisor Prod/Oper Workers	$22.94	$13.90	$27.46
Electromechanical Technician	$21.86	$15.06	$25.26
Avionics Technician	$20.19	$13.42	$23.58

This is a chart of hourly wages for 10 of the top-paying careers in the Manufacturing cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: WELDING or CTE ECHS Welding Technology AAS	
9TH	*Principles of Information Technology or Business Information Management*
10TH	*Precision Metal Manufacturing*
11TH	*Welding Technology*
12TH	*Advanced Welding Technology*

Principles of Information Technology
9-10
1 Credit
ATC – QT46A0 – PEIMS#13027200
Prerequisite: None - This course introduces students to an array of computer applications in route to fields in Computer Programming, Computer Maintenance, or Information Technology. The student will learn about computer hardware and software and how the two interact for producing spreadsheets from databases, creating or editing photos, video and music, creating and publishing websites or communicating through networks. *This course meets the requirements for one credit of Technology Applications.*

Business Information Management I
9-12
1 Credit
ATC – QB60A0 – PEIMS#13011500
Prerequisite: Touch Systems Data Entry - Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. *This course meets the requirements for one credit of Technology Applications*

Precision Metal Manufacturing
10-12
1 Credit
QT5330 – PEIMS#13032500
Rapid advances in technology have created new career opportunities and demands in many industries. Precision Metal Manufacturing provides the knowledge, skills, and technologies required for employment in metal technology systems. This course may also address a variety of materials in addition to metal such as plastics, ceramics, and wood. Students develop knowledge of the concepts and skills related to these systems to apply them to personal and career development. This course supports integration of academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for success.

Welding
10-12
2 Credits
Dual – QT6030, QT60D0 – PEIMS#13032300
Prerequisites: Precision Metal Manufacturing - Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

Advanced Welding
11-12
2 Credits
Dual – QT6230, QT62D0
Prerequisites: Algebra I or Geometry and Welding - Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Airline Pilot, Co-pilot, & Flight Engineer	$66.78	$27.65	$86.35
Flight Attendant	$34.21	$16.85	$42.89
Commercial Pilot	$26.15	$14.07	$32.19
Aerospace Engineering, Operations Tech	$25.02	$16.80	$29.13
Captain, Mate, and Pilot of Water Vessels	$24.70	$16.37	$28.86
Postmaster & Mail Superintendent	$24.54	$17.89	$27.87
Supervisor Transp. Machine/Vehicle Oper	$22.56	$13.75	$26.97
Aircraft Mechanic & Service Technician	$21.19	$15.13	$24.23
Postal Service Mail Carrier	$20.78	$16.81	$22.77
Tank Car, Truck and Ship Loader	$17.20	$11.38	$20.11

This is a chart of hourly wages for 10 of the top-paying careers in the Transportation, Distribution & Logistics cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: COLLISION REPAIR & REFINISHING	
9TH	*Principles of Information Technology or Business Information Management*
10TH	*Energy, Power & Transportation Systems*
11TH	*Collision Repair & Refinishing*
12TH	*Advanced Collision Repair & Refinishing*

Principles of Information Technology
9-10
1 Credit
ATC – QT46A0 – PEIMS#13027200
Prerequisite: None - This course introduces students to an array of computer applications in route to fields in Computer Programming, Computer Maintenance, or Information Technology. The student will learn about computer hardware and software and how the two interact for producing spreadsheets from databases, creating or editing photos, video and music, creating and publishing websites or communicating through networks. *This course meets the requirements for one credit of Technology Applications.*

Business Information Management I
9-12
1 Credit
ATC – QB60A0 – PEIMS#13011500
Prerequisite: Touch Systems Data Entry - Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. *This course meets the requirements for one credit of Technology Applications*

Energy, Power & Transportation Systems
9-12
1 Credit
QT0130 – PEIMS#13039300
The businesses and industries of the Transportation, Distribution, and Logistics cluster are rapidly expanding to provide new career opportunities. Students will need to understand the interaction between various vehicle systems, the logistics used to move goods and services to consumers, and the components of transportation infrastructure. Performance requirements will include academic and technical skills. Students prepared to meet the expectations of employers in this industry must be able to interact and relate to others and understand the technologies used in order to provide products and services in a timely manner. The increasing demand for employees will provide growth potential.

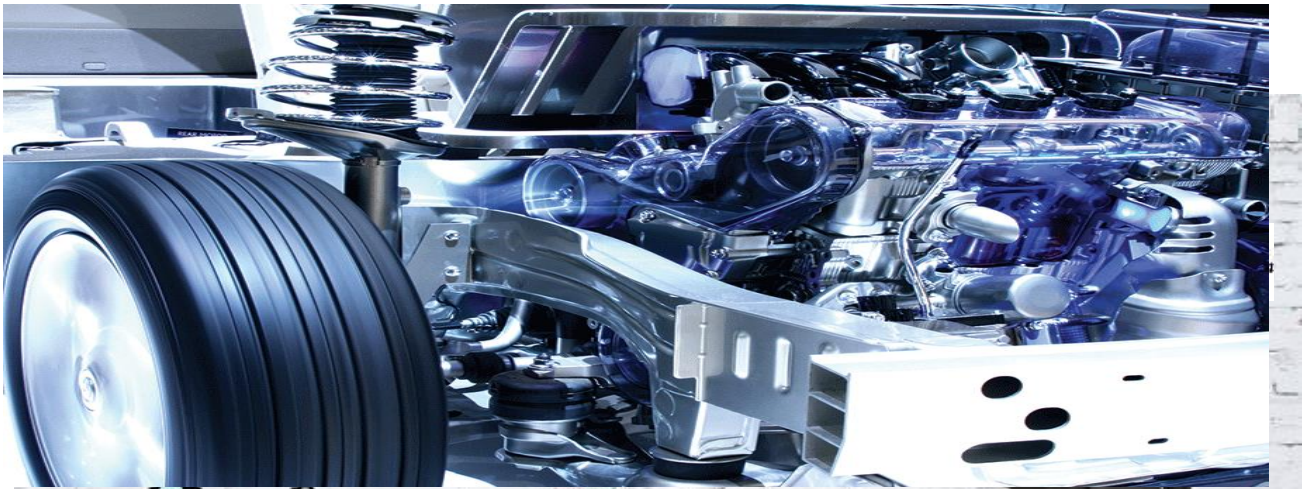
Collision Repair & Refinishing
10-12
2 Credits
Dual – QT1030, QT10D0 – PEIMS#13039800
Collision repair and refinishing services include knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.

Advanced Collision Repair & Refinishing
10-12
2 Credits
Dual – QT1230, QT12D0 – PEIMS#13039900
Prerequisite: Collision Repair & Refinishing - Collision repair and refinishing services include advanced knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the application of advanced technical skills and practices related to collision repair and refinishing.

Program of Study: AUTOMOTIVE TECHNOLOGY	
9TH	*Principles of Information Technology or Business Information Management*
10TH	*Energy, Power & Transportation Systems*
11TH	*Automotive Technology*
12TH	*Advanced Automotive Technology*

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Airline Pilot, Co-pilot, & Flight Engineer	$66.78	$27.65	$86.35
Flight Attendant	$34.21	$16.85	$42.89
Commercial Pilot	$26.15	$14.07	$32.19
Aerospace Engineering, Operations Tech	$25.02	$16.80	$29.13
Captain, Mate, and Pilot of Water Vessels	$24.70	$16.37	$28.86
Postmaster & Mail Superintendent	$24.54	$17.89	$27.87
Supervisor Machine/Vehicle Operators	$22.56	$13.75	$26.97
Aircraft Mechanic & Service Technician	$21.19	$15.13	$24.23
Postal Service Mail Carrier	$20.78	$16.81	$22.77
Tank Car, Truck and Ship Loader	$17.20	$11.38	$20.11

This is a chart of hourly wages for 10 of the top-paying careers in the Transportation, Distribution & Logistics cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.



Principles of Information Technology
9-10
1 Credit
ATC – QT46A0 – PEIMS#13027200
Prerequisite: None - This course introduces students to an array of computer applications in route to fields in Computer Programming, Computer Maintenance, or Information Technology. The student will learn about computer hardware and software and how the two interact for producing spreadsheets from databases, creating or editing photos, video and music, creating and publishing websites or communicating through networks. *This course meets the requirements for one credit of Technology Applications.*

Business Information Management I
9-12
1 Credit
ATC – QB60A0 – PEIMS#13011500
Prerequisite: Touch Systems Data Entry - Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. *This course meets the requirements for one credit of Technology Applications*

Energy, Power & Transportation Systems
9-12
1 Credit
QT0130 – PEIMS#13039300
The businesses and industries of the Transportation, Distribution, and Logistics cluster are rapidly expanding to provide new career opportunities. Students will need to understand the interaction between various vehicle systems, the logistics used to move goods and services to consumers, and the components of transportation infrastructure. Performance requirements will include academic and technical skills. Students prepared to meet the expectations of employers in this industry must be able to interact and relate to others and understand the technologies used in order to provide products and services in a timely manner. The increasing demand for employees will provide growth potential.

Automotive Technology
10-12
2 Credits
Dual – QT1430, QT14D0 – PEIMS#13039600
Prerequisite – Energy, Power & Transportation System - 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.

Advanced Automotive Technology
11-12
2 Credits
Dual – QT16A0, QT16D0 – PEIMS#13039700
Prerequisite: 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

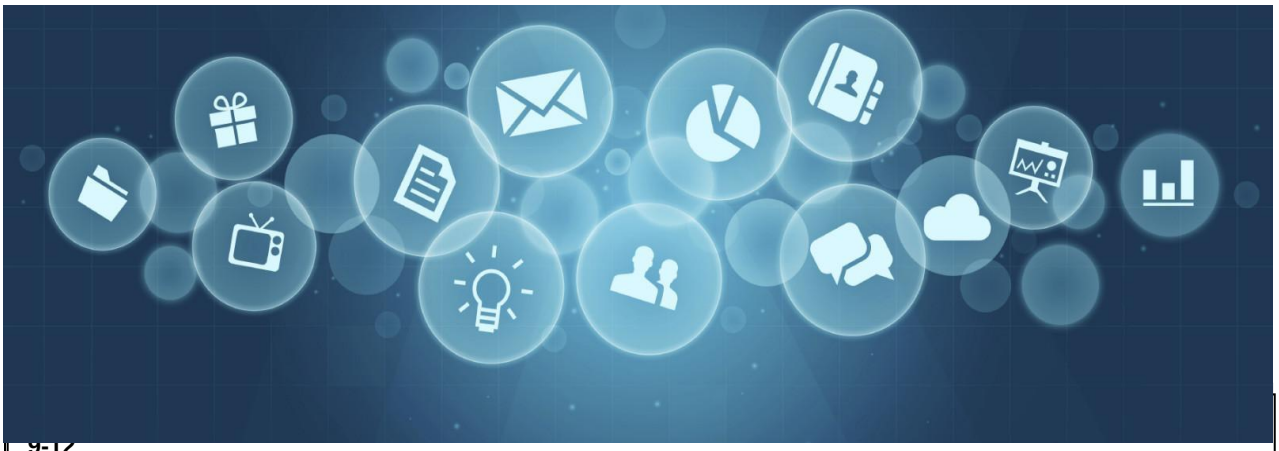
Program of Study: MARKETING

9TH	*Principles of Business, Marketing & Finance*
10TH	*Business Information Management*
11TH	*Fashion Marketing, Advertising & Sales Promotion, Sports & Entertainment Marketing*
12TH	*Entrepreneurship, Marketing Dynamics, Practicum in Business Management*

10 TOP PAYING CAREERS

Occupation	Average Wage	Entry Level Wage	Experienced Wage
Marketing Manager	$58.90	$32.87	$71.92
Sales Manager	$55.03	$28.42	$68.34
Public Relations Manager	$49.43	$27.17	$60.57
Purchasing Manager	$49.41	$30.01	$59.12
Sales Engineer	$45.24	$27.82	$53.94
Advertising & Promotions Manager	$38.92	$20.57	$48.07
Sales Rep. Wholesale & Manufacturing	$35.46	$18.64	$43.87
Market Research Analyst	$32.93	$17.39	$40.69
Public Relations Specialist	$27.37	$15.33	$33.29
Appraiser and Assessor	$25.33	$14.28	$30.86

This is a chart of hourly wages for 10 of the top-paying careers in the Marketing cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.



9-12
½-1 Credit
QM10A0, QM10D0 – PEIMS#13034400
Recommended prerequisite: Principles of Business, Marketing, and Finance. - Students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit.

Marketing Dynamics
11-12
2-3 Credits
QM50A0, QM50D0 – PEIMS#13034700
Recommended 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.

Program of Study: ACCOUNTING

9TH	*Principles of Business, Marketing & Finance*
10TH	*Business Information Management*
11TH	*Accounting I*
12TH	*Accounting II*

10 TOP PAYING CAREERS

Occupation	Average Wage	Entry Level Wage	Experienced Wage
Financial Manager	$53.59	$30.44	$65.70
Economist	$51.77	$16.73	$51.77
Actuaries	$49.87	$25.90	$61.36
Personal Financial Advisor	$44.58	$18.42	$57.66
Financial Services: Securities	$38.41	$14.16	$50.53
Financial Analyst	$37.42	$22.48	$44.89
Market Research Analyst	$32.93	$17.39	$40.69
Budget Analyst	$31.68	$21.58	$36.73
Credit Analyst	$31.19	$17.05	$38.25
Accountants and Auditors	$30.73	$18.60	$36.79

This is a chart of hourly wages for 10 of the top-paying careers in the Finance cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Principles of Business, Marketing & Finance
9-11
½-1 Credit
QB12A0 – PEIMS#13011200
In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

Business Information Management
9-12
1-2 Credits
QB60A0 – PEIMS#13011400
Prerequisite – Touch Systems Data Entry - Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software

Accounting I
10-12
1 Credit
QB37A0, QB37D0 – PEIMS#13016600
Recommended 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.

Accounting II
11-12
1 Credit
QB37A0, QB37D0 – PEIMS#13016700
Prerequisite: Accounting I - Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making.

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Chief Executive	$79.81	$7.00	N/A
Engineering	$63.26	$39.65	N/A
Marketing	$58.90	$28.27	N/A
Computer & Info. Systems Manager	$57.36	$34.40	N/A
Natural Science	$56.72	$33.39	N/A
Sales Manager	$49.80	$24.47	N/A
Financial Manager	$53.95	$26.47	N/A
Human Resources Manager	$51.37	$30.11	N/A
General Operations Manager	$51.86	$21.15	N/A
Industrial Production Manager	$51.33	$28.10	N/A

This is a chart of hourly wages for 10 of the top-paying careers in the Business Management & Administration cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: BUSINESS MANAGEMENT	
9TH	*Principles of Business, Marketing & Finance*
10TH	*Business Information Management I*
11TH	*Business Information Management II-MM* *Business Information Management II-CA*
12TH	*Digital & Interactive Media – MM* *Digital & Interactive Media - CA*

QB12A0 – PEIMS#13011200

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

Business Information Management
9-12
1-2 Credits
QB60A0 – PEIMS#13011400

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

Business Information Management II (MM, CA)
11-12
1-2 Credits
QB15A0, QB65D0(MM), QB55D0(CA) – PEIMS#13011500

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

Digital & Interactive Media – (MM, CA)
10-12
½-1 Credits
QB13A0, QB66D0(MM), QB56D0(CA)– PEIMS#13027800

Recommended prerequisite: Principles of Information Technology - 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.

Practicum in Business Management
12
2-3 Credits
QB8030, QB80D0 – PEIMS#13012200

Recommended prerequisites: Touch System Data Entry and 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 economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication,

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Athlete & Sports Competitor	$52.50	$7.02	$80.00
Lodging Manager	$27.54	$15.31	$44.65
Food Service Manager	$25.87	$15.96	$37.47
Curator	$21.51	$12.34	$36.47
Archivist	$23.52	$13.09	$37.65
Meeting & Convention Planner	$21.64	$12.48	$34.62
Set & Exhibit Designer	$20.96	$11.73	$32.01
Self-Enrichment Teacher	$19.09	$8.90	$31.01
Coach & Scout	$18.16	$10.53	$29.08
Chef & Head Cook	$17.94	$10.33	$28.15

This is a chart of hourly wages for 10 of the top-paying careers in the Hospitality & Tourism cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: CULINARY ARTS

9TH	*Principles of Human Services*
10TH	*Hospitality Services*
11TH	*Culinary Arts*
12TH	*Practicum in Culinary Arts*

½-1 Credit
QE1330 – PEIMS#13024200
This laboratory course 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. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations

Hospitality Services
11-12
1-2 Credits
QE50A0 – PEIMS#13022800
Hospitality Services provides students with the academic and technical preparation to pursue high-demand and high-skill careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards-based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students for nationally recognized industry certifications, postsecondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Culinary Arts
10-12
1-2 Credits
QE25A0, QE25D0 – PEIMS#13022600 Recommended prerequisite: Principles of Human Services, Hospitality Services. Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Practicum in Culinary Arts
11-12
2-3 Credits
QE2730, QE27D0 – PEIMS#13022710
Recommended prerequisite: Culinary Arts This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Culinary Arts is relevant and rigorous, supports student application of academic standards, and effectively prepares students for college and career success. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Computer & Info. Systems Manager	$57.36	$37.77	$67.16
Computer & Info. Scientist, Research	$45.93	$25.20	$56.30
Computer Hardware Engineer	$46.91	$31.79	$54.47
Computer Software Engineer, Systems	$43.50	$29.97	$50.27
Sales Rep, Wholesale & Manufacturing, Technical & Scientific Products	$18.64	$35.46	$43.87
Computer Software Engineer/Applications	$42.98	$30.41	$49.26
Electronics Engineers	$41.98	$28.21	$48.85
Computer Systems Analyst	$36.41	$22.05	$43.60
Network Systems & Data Communications Analyst	$34.26	$20.61	$41.08

This is a chart of hourly wages for 10 of the top-paying careers in the Hospitality & Tourism cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: COMPUTER MAINTENANCE

9TH	*Principles of Information Technology*
10TH	*Computer Maintenance*
11TH	*Telecommunications & Networking*
12TH	*Computer Technician*

Principles of Information Technology
9-10
1 Credit
ATC – QT46A0 – PEIMS#13027200
Prerequisite: None - This course introduces students to an array of computer applications in route to fields in Computer Programming, Computer Maintenance, or Information Technology. The student will learn about computer hardware and software and how the two interact for producing spreadsheets from databases, creating or editing photos, video and music, creating and publishing websites or communicating through networks. *This course meets the requirements for one credit of Technology Applications.*

Computer Maintenance
10-12
1-2 Credits
QT22A0 – PEIMS#13027300
Recommended prerequisite: Principles of Information Technology - Students acquire principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad level components related to the installation, diagnosis, service, and repair of computer systems. To prepare for success, students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Telecommunications and Networking
10-12
2 Credits
ATC, Dual – QT26A0, QT26D0 – PEIMS#13027400
Prerequisites: Principles of Information Technology and Computer Maintenance – Students develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Computer Technician
11-12
2-3 Credits
QT24A0, QT24D0 – PEIMS#13027500
Recommended prerequisites: Principles of Information Technology and Telecommunications and Networking - Students gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of information technology concepts and standards are essential to prepare students for success in a technology-driven society. The critical thinking, information technology experience, and product development may be conducted either in a classroom setting with an instructor, with an industry mentor, or both.

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Art Director	$38.59	$21.65	$47.06
Broadcast News Analyst	$37.44	$12.15	$80.00
Producers & Directors	$32.54	$12.09	$55.61
Film & Video Editors	$31.63	$12.06	$41.41
Media/Communications Equipment Workers	$29.45	$10.72	$37.63
Technical Writers	$28.24	$18.63	$33.05
Public Relations Specialist	$27.37	$15.33	$33.39
Commercial & Industrial Designers	$26.19	$15.67	$31.45
Writers & Authors	$26.14	$14.93	$31.74
Multimedia Artists & Animators	$25.36	$22.86	$37.63

This is a chart of hourly wages for 10 of the top-paying careers in the Arts, A/V Technology & Communications cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: VIDEO / RADIO PRODUCTION

9TH	*Professional Communications*
10TH	*Principles of Arts, A/V Technology & Communications*
11TH	*Video Production, Radio Production, Career Preparation, Problems & Solutions*
12TH	*Advanced Video Production, Advanced Radio Production, Practicum in Audio/Video Prod.*

½ - 1 Credit

QF1335/6, QF13D5/6 – PEIMS#13009900 Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

Principles of Arts, A/V Technology & Communications
9
½ - 1 Credits
QT5030 – PEIMS#13008200
Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Video Production
9-12
1-2 Credits
QT5630, PEIMS#13008500
Careers in video technology and film production span all aspects of the video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production video activities.

Radio Production
9-12
1-2 Credits
QT5430, PEIMS#13008500
Careers in audio technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio activities.

Advanced Video Production
10-12
2-3 Credits
QT58A0, QT58D0, PEIMS#13008600
Prerequisite: Video Production - Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video.

Advanced Radio Production
10-12
2-3 Credits
QT5530
Prerequisite – Radio Production - Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video.

Practicum in Audio/Video Production
12
2-3credit
QT5930 – PEIMS#13008700
Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video activities in a studio environment. This course may be implemented in an advanced audio, video, or animation format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Career Preparation I & II
11-12
2-3 credit
QT9030 – PEIMS#12701300 and QT9131 – PEIMS#12701400
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

Problems & Solutions
11-12
½ - 1 credit
QT9330 – PEIMS#12701500
Problems and Solutions is a project-based research course for students who have the ability to research a real-world problem. Students develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, are matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge, skills, and technologies in a variety of settings. This course is designed to provide students an opportunity to earn one advanced measure for the Distinguished Achievement Program.

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Art Director	$38.59	$21.65	$47.06
Broadcast News Analyst	$37.44	$12.15	$80.00
Producers & Directors	$32.54	$12.09	$55.61
Film & Video Editors	$31.63	$12.06	$41.41
Media/Communications Equipment Workers	$29.45	$10.72	$37.63
Technical Writers	$28.24	$18.63	$33.05
Public Relations Specialist	$27.37	$15.33	$33.39
Commercial & Industrial Designers	$26.19	$15.67	$31.45
Writers & Authors	$26.14	$14.93	$31.74
Multimedia Artists & Animators	$25.36	$22.86	$37.63

This is a chart of hourly wages for 10 of the top-paying careers in the Arts, A/V Technology & Communications cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: FASHION DESIGN

9TH	*Principles of Human Services*
10TH	*Interpersonal Studies*
11TH	*Fashion Design*
12TH	*Advanced Fashion Design*

Principles of Human Services
9-12
½ -1 Credits
QE1330 – PEIMS#13024200
This laboratory course 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.

Interpersonal Studies
10-12
½-1 Credits
QE4530 – PEIMS#13024400
This course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

Fashion Design
10-12
1-2 Credits
QF1030- PEIMS#13009300
In fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of fashion and the textile and apparel industries.

Advaned Fashion Design
10-12
2-3 Credits
QF1130 - PEIMS#13009400
Prerequisite: Fashion Design. - Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of fashion, with emphasis on design and production.

Program of Study: CTE ECHS Precision Manufacturing Technology AAS	
9TH	*ECHS Principles of Manufacturing*
10TH	*ECHS Precision Metal Manufacturing or Agric. Mechanics & Metal Technologies*
11TH	*ECHS Flexible Manufacturing or Manufacturing Engineering*
12TH	*ECHS Advanced Flexible Manufacturing or Advanced Precision Metal Manufacturing*

10 TOP PAYING CAREERS

Occupation	Average Wage	Entry Level Wage
General & Operations Manager	$42.74	$19.78
Environmental Engineer	$35.97	$22.87
Commercial & Industrial Designer	$25.07	$13.39
Industrial Engineering Technician	$24.46	$15.42
Electrical & Electronic Engineering Tech	$24.06	$15.75
Mechanical Engineering Technician	$23.41	$15.71
Purchasing Agent	$23.39	$14.69
First-Line Supervisor Prod/Oper Workers	$22.94	$13.90
Electromechanical Technician	$21.86	$15.06
Avionics Technician	$20.19	$13.42

This is a chart of hourly wages for 10 of the top-paying careers in the Manufacturing cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

½ credit

QZ52D6 – PEIMS# 13032200

Recommended prerequisite: Algebra I or Geometry. In Principles of Manufacturing, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. 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.

ECHS Precision Metal Manufacturing

10-12

2 credits

QZ22D0 - PEIMS#13032500

Recommended prerequisites: Principles of Manufacturing and completed or concurrently enrolled in Algebra I or Geometry. Rapid advances in technology have created new career opportunities and demands in many industries. Precision Metal Manufacturing provides the knowledge, skills, and technologies required for employment in metal technology systems. This course may also address a variety of materials in addition to metal such as plastics, ceramics, and wood. Students develop knowledge of the concepts and skills related to these systems to apply them to personal and career development. This course supports integration of academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for success.

ECHS Agricultural Mechanics and Metal Technologies

10-12

1 credit

QA1330, QA13A0 – PEIMS#13002200

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

ECHS Flexible Manufacturing

10-12

1-2 Credits

QZ - PEIMS#13032700

Recommended prerequisites: Algebra I or Geometry. Rapid advances in technology have created new career opportunities and demands in many industries. Flexible Manufacturing provides the knowledge, skills, and technologies required for employment in metal technology systems. Students need to develop knowledge of the concepts and skills related to this system in order to apply them to personal and career development. Career and technical education supports integration of academic and technical knowledge and skills. Students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities,

ECHS Manufacturing Engineering
11-12
2-3 Credits
QZ - PEIMS#13032900
Prerequisites: Algebra II, Computer Science I, and Physics. In Manufacturing Engineering, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of Manufacturing Engineering, the design of technology, efficient manufacturing technology, and the assessment of the effects of production technology prepare students for success in the global economy. The study of Manufacturing Engineering 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.

ECHS Advanced Flexible Manufacturing
11-12
2-3 Credits
QZ… - PEIMS#13032800
Recommended prerequisites: Geometry, Algebra II, and Flexible Manufacturing.Advanced Flexible Manufacturing builds on knowledge and skills developed in Flexible Manufacturing. Students will develop advanced concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

ECHS Advanced Precision Metal Manufacturing
11-12
2-3 Credits
QZ…PEIMS#13032600
Recommended prerequisites: Precision Metal Manufacturing and completed or concurrently enrolled in Algebra II.. This course is designed to enhance the technical knowledge and skills learned in Precision Metal Manufacturing by allowing students the opportunity to explore career preparation that has resulted from the rapid advances in technology and career demands in high-skill, high-wage opportunities. Advanced Precision Metal Manufacturing provides the knowledge, skills, and technologies required for employment in a globally competitive manufacturing environment. This course may also address a variety of materials in addition to metal such as plastics, ceramics, and wood. Students need to develop concepts and skills related to this system in order to apply them to personal and professional development. Career and technical education supports the integration of academic and career and technical knowledge and skills. Students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

Program of Study: CTE ECHS Diesel Technology AAS	
9TH	*ECHS Principles of Transportation*
10TH	*ECHS Energy, Power & Transportation Systems*
11TH	*EHCS Diesel Technology*
12TH	*ECHS Advanced Diesel Technology*

10 TOP PAYING CAREERS

Occupation	Average Wage	Entry Level Wage	Experienced Wage
Airline Pilot, Co-pilot, & Flight Engineer	$66.78	$27.65	$86.35
Flight Attendant	$34.21	$16.85	$42.89
Commercial Pilot	$26.15	$14.07	$32.19
Aerospace Engineering, Operations Tech	$25.02	$16.80	$29.13
Captain, Mate, and Pilot of Water Vessels	$24.70	$16.37	$28.86
Postmaster & Mail Superintendent	$24.54	$17.89	$27.87
Supervisor Machine/Vehicle Operators	$22.56	$13.75	$26.97
Aircraft Mechanic & Service Technician	$21.19	$15.13	$24.23
Postal Service Mail Carrier	$20.78	$16.81	$22.77
Tank Car, Truck and Ship Loader	$17.20	$11.38	$20.11

This is a chart of hourly wages for 10 of the top-paying careers in the Transportation, Distribution & Logistics cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Principles of Transportation
9-12
.5-1 Credits
QZ13D6 – PEIMS#13039200
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

Energy, Power & Transportation Systems
9-12
1 Credit
QT0130 – PEIMS#13039300
The businesses and industries of the Transportation, Distribution, and Logistics cluster are rapidly expanding to provide new career opportunities. Students will need to understand the interaction between various vehicle systems, the logistics used to move goods and services to consumers, and the components of transportation infrastructure. Performance requirements will include academic and technical skills. Students prepared to meet the expectations of employers in this industry must be able to interact and relate to others and understand the technologies used in order to provide products and services in a timely manner. The increasing demand for employees will provide growth potential.

ECHS Diesel Technology
10-12
2 Credits
Dual –PEIMS#13039600
Prerequisite – Energy, Power & Transportation System - 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.

ECHS Advanced Diesel Technology
11-12
2 Credits
Dual – QT16A0, QT16D0 – PEIMS#13039700
Prerequisite: 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

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Law Teacher Postsecondary	$53.18	$10.46	$85.33
Health Specialties Teacher, Postsecondary	$48.82	$19.64	$85.33
Biological Science Teacher, Postsecondary	$46.46	$21.23	$85.33
Training & Development Manager	$45.48	$25.74	$71.07
Engineering Teacher, Postsecondary	$43.95	$21.84	$85.33
Education Administrator, Postsecondary	$43.90	$23.18	$85.33
Environmental Science Teacher, Postsecondary	$41.69	$20.51	$62.82
Economics Teacher, Postsecondary	$39.43	$17.18	$75.80
Atmospheric, Earth, Marine, & Space Sciences, Postsecondary	$39.18	$19.90	$73.15
Business Teacher, Postsecondary	$37.33	$12.46	$85.18

This is a chart of hourly wages for 10 of the top-paying careers in the Education & Training cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: EDUCATION

9TH	*Principles of Education & Training/ Child Development*
10TH	*Lifetime Nutrition & Wellness*

11TH	*Instructional Practices in Education & Training*
12TH	*Practicum in Education & Training*

Principles of Education & Training
9-12
½ -1 Credits
QE3035 – PEIMS#13014200
Principles of Education and Training 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 within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

Child Development
9-12
½-1 Credits
QE1036 – PEIMS#13024700
This technical laboratory course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Lifetime Nutrition & Wellness
10-12
½-1 Credits
QE35A0, QE35D0 – PEIMS#13024500
Recommended prerequisite: Principles of Human Services, Principles of Hospitality and Tourism, Principles of Health Science, or Principles of Education and Training. This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Instructional Practices in Education and Training
11-12
1-2 Credits
QE6330, QE63D0 - PEIMS#13014100
Recommended prerequisites: Principles of Education and Training and Human Growth and Development. Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel

Practicum in Education & Training
12
2-3 Credits
QE6430, QE64D0 – PEIMS#13014500
Recommended prerequisites: Principles of Education and Training, Human Growth and Development, and Instructional Practices in Education and Training. . 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

Program of Study: HUMAN SERVICES

9TH	*Principles of Human Services*
10TH	*Hospitality Services*
11TH	*Lifetime, Nutrition & Wellness*
12TH	*Practicum in Human Services*

10 TOP PAYING CAREERS

Occupation	Average Wage	Entry Level Wage	Experienced Wage
Sales Manager	$49.80	$28.42	$68.34
Financial Manager	$49.52	$30.44	$65.70
Education Administrator/Postsecondary	$41.17	$24.93	$60.45
Personal Financial Advisor	$33.88	$18.42	$57.66
Clinical, Counseling & School Psychologist	$25.89	$18.43	$31.92
Dietitian/Nutritionist	$24.43	$16.60	$35.36
Sales Rep, Wholesale & Manufacturing	$21.02	$12.02	$23.54
Medical & Public Health Social Worker	$21.66	$14.72	$25.62
Clergy	$18.38	$11.56	$22.84
Marriage & Family Therapist	$17.74	$12.26	$20.48

This is a chart of hourly wages for 10 of the top-paying careers in the Human Services cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

PUBLIC SERVICES ENDORSEMENT

Principles of Human Services
9-12
½ -1 Credits
QE1330 – PEIMS#13024200
This laboratory course 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**.**

Hospitality Services
11-12
1-2 Credits
QE50A0 – PEIMS#13022800
Hospitality Services provides students with the academic and technical preparation to pursue high-demand and high-skill careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards-based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students for nationally recognized industry certifications, postsecondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Lifetime Nutrition & Wellness
10-12
½-1 Credits
QE35A0, QE35D0 – PEIMS#13024500
Recommended prerequisite: Principles of Human Services, Principles of Hospitality and Tourism, Principles of Health Science, or Principles of Education and Training. This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations

Practicum in Human Services
11-12
2-3 Credits
QF8030 – PEIMS#1302500
Practicum in Human Services provides occupationally specific training and focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster as well as the essential knowledge and skills described in subsection (c) of this section for communication, critical thinking, problem solving, information technology, ethical and legal responsibilities, leadership, teamwork, and entrepreneurship. (2) Instruction may be delivered through school-based laboratory training or through work-

Program of Study: COSMETOLOGY

9TH	*Principles of Human Services*
10TH	*Introduction to Cosmetology*
11TH	*Cosmetology I*
12TH	*Cosmetology II*

10 TOP PAYING CAREERS

Occupation	Average Wage	Entry Level Wage	Experienced Wage
Athlete & Sports Competitor	$52.50	$7.02	$80.00
Lodging Manager	$27.54	$15.31	$44.65
Food Service Manager	$25.87	$15.96	$37.57
Curator	$25.87	$12.34	$36.47
Archivist	$23.52	$13.19	$37.65
Meeting & Convention Planner	$21.64	$12.48	$34.62
Set & Exhibit Designer	$20.96	$11.73	$32.01
Self-Enrichment Teacher	$19.09	$8.90	$31.01
Coach & Scout	$18.16	$10.53	$29.08
Chef & Head Cook			

This is a chart of hourly wages for 10 of the top-paying careers in the Hospitality & Tourism cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

9-12
½ -1 Credits
QE1330 – PEIMS#13024200
This laboratory course 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.

Introduction to Cosmetology
9-10
½-1 Credits
QE1430 – PEIMS#13025100
Students explore areas such as bacteriology, sterilization and sanitation, hair styling, manicuring, shampooing and the principles of hair cutting, hair styling, hair coloring, skin care, and facial makeup. The student researches careers in the personal care services industry. To prepare for success, students must have skills relative to this industry, as well as academic knowledge and skills. Students may begin to earn clock hours toward state licensing requirements.

Cosmetology I
10-11
1-3 Credits
QE1530 – PEIMS#13025200
Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, haircare, nail care, and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included.

Cosmetology II
11-12
2-3 Credits
QE1730 – PEIMS#13025300
Prerequisite: Cosmetology I. Students review academic knowledge and skills related to cosmetology. This course is designed to provide advanced training for employment in cosmetology careers. Instruction includes advanced training in sterilization and sanitation processes, haircare, nail care, and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination. Students apply, combine, and justify knowledge and skills to a variety of settings and problems.

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Lawyer	$59.91	$28.79	$75.46
First-Line Supervisor/Manager of Police	$33.75	$22.92	$39.17
Administrative Law Judges	$33.51	$11.96	$44.28
Judge, Magistrate Judge, Magistrate	$28.17	$8.03	$38.24
Detectives & Criminal Investigators	$26.87	$17.95	$31.34
Arbitrators, Mediators & Conciliators	$25.35	$14.81	$30.62
Fire Inspectors & Investigators	$24.23	$16.12	$28.29
Paralegal & Legal Assistant	$23.46	$15.61	$27.39
Police & Sheriff Patrol Officers	$23.08	$16.05	$26.60
Firefighters	$22.12	$15.25	$25.56

This is a chart of hourly wages for 10 of the top-paying careers in the Law, Public Safety, Corrections & Security cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: LAW ENFORCEMENT, SECURITY

9TH	*Principles of Law, Safety, Corrections & Security*
10TH	*Law Enforcement I*
11TH	*Court Systems & Practices*
12TH	*Law Enforcement II, Security Services, Correctional Services*

QL3530 – PEIMS#13029200
Introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections.

Law Enforcement I
10-12
1-2 Credits
QL45A0 – PEIMS#13029300
Recommended prerequisite: Principles of Law, Public Safety, Corrections, and Security. Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

Court Systems & Practice
10-12
1-2 Credits
QL33A0- PEIMS#13029600
Prerequisite: Law Enforcement I. - Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

Law Enforcement II
11-12
1-2 Credits
QL3430 – PEIMS#13029400
Prerequisite: Law Enforcement I.- . Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

Security Services
11-12
1-2 Credits
QL5130 – PEIMS#13029800
Prerequisite: Principles of Law, Public Safety, Corrections, and Security - Security Services provides the knowledge and skills necessary to prepare for certification in security services. The course provides an overview of security elements and types of organizations with a focus on security measures used to protect lives, property, and proprietary information.

Correctional Services
11-12
1-2 Credits
QL1730 – PEIMS#13029700 Prerequisite: Principles of Law, Public Safety, Corrections, and Security.. In Correctional Services, students prepare for certification required for employment as a correctional officer. The student will learn the role and responsibilities of a correctional officer; discuss relevant rules, regulations, and laws; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the correctional setting. The student will analyze rehabilitation and alternatives to institutionalization.

10 TOP PAYING CAREERS			
Occupation	**Average Wage**	**Entry Level Wage**	**Experienced Wage**
Physician	$111.49	$55.30	$224.36
Dentist	$73.82	$36.28	$92.60
Chiropractors	$36.20	$17.03	$45.78
Medical & Health Services Manager	$32.24	$23.60	$45.56
Sales Engineers	$45.24	$27.82	$53.94
Pharmacists	$52.23	$42.68	$57.09
Medical Scientist	$25.97	$16.61	$30.65
Physical Therapist	$37.56	$26.25	$43.52
Dental Hygienists	$32.02	$23.87	$36.10
Nurse	$29.70	$22.04	$33.53

This is a chart of hourly wages for 10 of the top-paying careers in the Health Science cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Program of Study: PHARMACY TECHNICIAN

9TH	*Principles of Health Science*
10TH	*Health Science*
11TH	*Medical Terminology*
12TH	*Practicum in Health Science II – Pharmacy Technician*

QH10A0- PEIMS#1302020

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

Health Science
10-12
1-2 Credits
QH15A0 – PEIMS#13020400

Prerequisites: Principles of Health Science and Biology. - The Health Science course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. To pursue a career in the health science industry, students should recognize, learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities, recognize limitations, and understand the implications of their actions.

Medical Terminology
9-12
½-1 Credits
QH16A5/6, QH16D5/6- PEIMS#13020300

This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. To pursue a career in health science, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should understand that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to learn the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

Practicum in Health Science II – Pharmacy Technician
11-12
2-3 Credits
QH8230 – PEIMS#13020510

Prerequisites: Health Science and Biology - The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health

Program of Study: CERTIFIED NURSE AIDE

9TH	*Principles of Health Science*
10TH	*Health Science*
11TH	*Practicum in Health Science I – Clinical Rotation or Pract. in Health Sci. I- C. N.A.*
12TH	*Practicum in Health Science II – C.N.A. or Medical Microbiology/Pathophysiology*

10 TOP PAYING CAREERS

Occupation	Average Wage	Entry Level Wage	Experienced Wage
Physician	$111.49	$55.30	$224.36
Dentist	$73.82	$36.28	$92.60
Chiropractors	$36.20	$17.03	$45.78
Medical & Health Services Manager	$32.24	$23.60	$45.56
Sales Engineers	$45.24	$27.82	$53.94
Pharmacists	$52.23	$42.68	$57.09
Medical Scientist	$25.97	$16.61	$30.65
Physical Therapist	$37.56	$26.25	$43.52
Dental Hygienists	$32.02	$23.87	$36.10
Nurse	$29.70	$22.04	$33.53

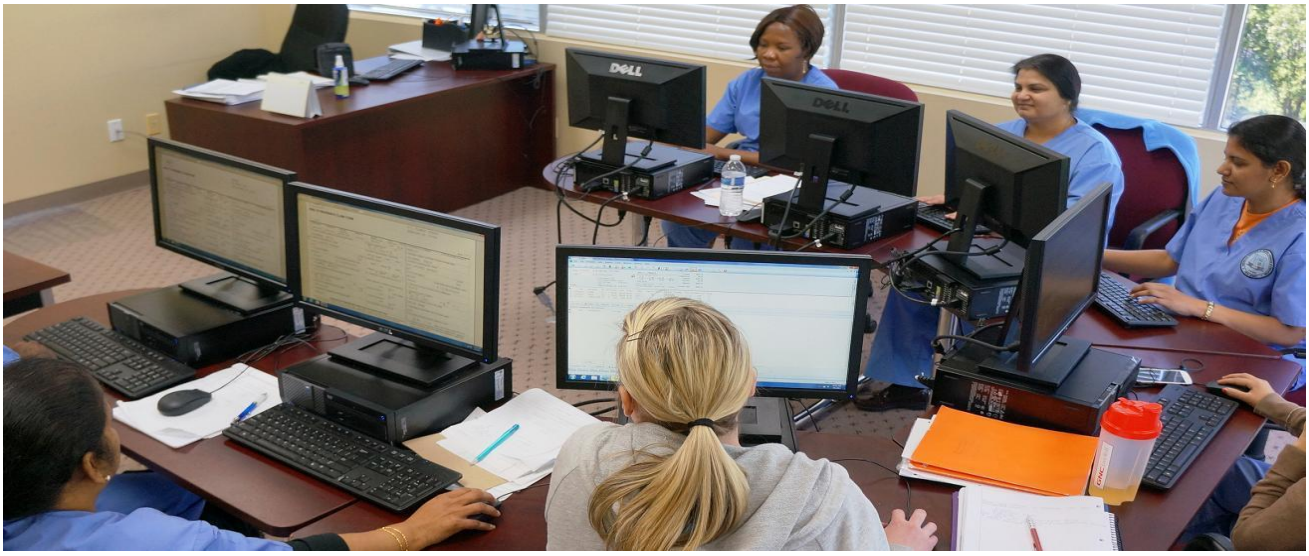
This is a chart of hourly wages for 10 of the top-paying careers in the Health Science cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

Practicum in Health Science II– C.N.A. (Certified Nurse Aide)
12th
2-3 Credits
QH8130– PEIMS#13020510
Prerequisites: Health Science and Biology - Students are prepared using the Texas Department of Health (DADS) curriculum and be able to sit for the NACES Certified Nursing Assistant exam to obtain their certification to work in Texas. Students must meet certification hours. This is a non-paid work-based experience. (1) The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment.

Medical Microbiology
10-12
½ - 1 Credits
QH1435 – PEIMS# 13020700
Recommended prerequisites: three credits of science. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum). Medical Microbiology. Students in Medical Microbiology explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.(2) Nature of science. Science, as defined by the National Academy of Sciences, is the "use of evidence to construct testable explanations and predictions of natural phenomena, as well as the knowledge generated through this process." This vast body of changing and increasing knowledge is described by physical, mathematical, and conceptual models. Students should know that some questions are outside the realm of science because they deal with phenomena that are not scientifically testable.(3) Scientific inquiry. Scientific inquiry is the planned and deliberate investigation of the natural world. Scientific methods of investigation are experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked.(4) Science and social ethics. Scientific decision making is a way of answering questions about the natural world. Students should be able to distinguish between scientific decision-making methods (scientific methods) and ethical and social decisions that involve science (the application of scientific information).(5) Science, systems, and models. A system is a collection of cycles, structures, and processes that interact. All systems have basic properties that can be described in space, time, energy, and matter. Change and constancy occur in systems as patterns and can be observed, measured, and modeled. These patterns help to make predictions that can be scientifically tested. Students should analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment.

Pathophysiology
11-12
½ - 1 Credits
QH1836 – PEIMS#13020800
Prerequisites: three credits of science. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum).(1) Pathophysiology. In Pathophysiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.(2) Nature of science. Science, as defined by the National Academy of Sciences, is the "use of evidence to construct testable explanations and predictions of natural phenomena, as well as the knowledge generated through this process." This vast body of changing and increasing knowledge is described by physical, mathematical, and conceptual models. Students should know that some questions are outside the realm of science because they deal with phenomena that are not scientifically testable.(3) Scientific inquiry. Scientific inquiry is the planned and deliberate investigation of the natural world. Scientific methods of investigation are experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked.(4) Science and social ethics. Scientific decision making is a way of answering questions about the natural world. Students should be able to distinguish between scientific decision-making methods (scientific methods) and ethical and social decisions that involve science (the application of scientific information)(5) Science, systems, and models. A system is a collection of cycles, structures, and processes that interact. All systems have basic properties that can be described in space, time, energy, and matter. Change and constancy occur in systems

are expected to apply the knowledge and skills necessary to pursue a health science career through further education



PUBLIC SERVICES ENDORSEMENT

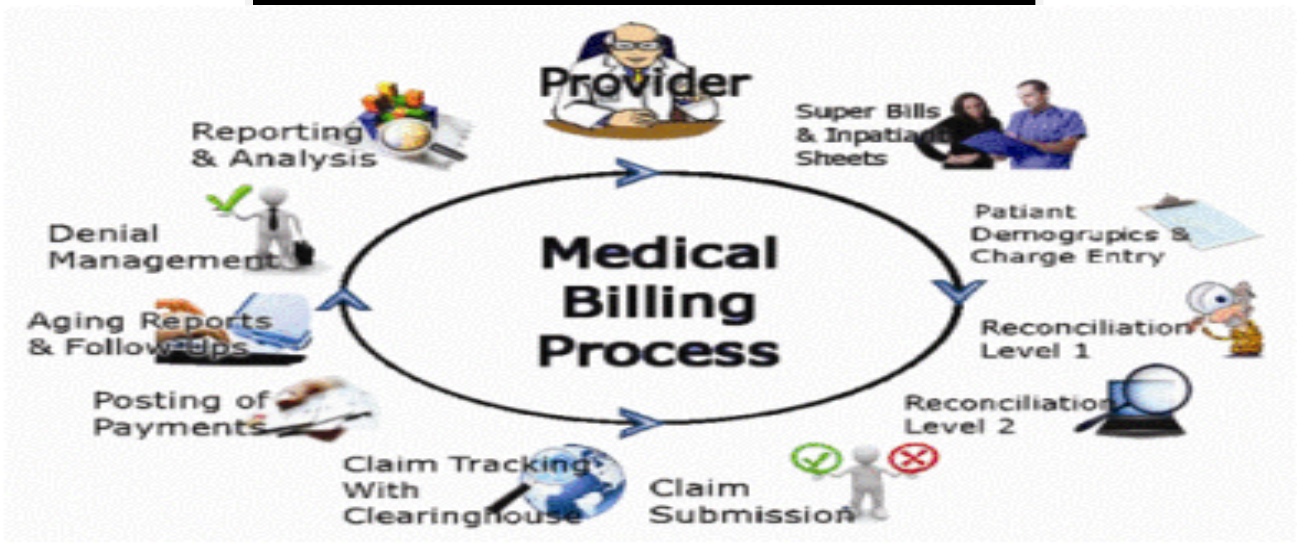
Program of Study: MEDICAL BILLING & CODING

9TH	*Principles of Health Science*
10TH	*Health Science*
11TH	*Medical Terminology*
12TH	*Practicum in Health Science II – Medical Billing & Coding*

10 TOP PAYING CAREERS

Occupation	Average Wage	Entry Level Wage	Experienced Wage
Physician	$111.49	$55.30	$224.36
Dentist	$73.82	$36.28	$92.60
Chiropractors	$36.20	$17.03	$45.78
Medical & Health Services Manager	$32.24	$23.60	$45.56
Sales Engineers	$45.24	$27.82	$53.94
Pharmacists	$52.23	$42.68	$57.09
Medical Scientist	$25.97	$16.61	$30.65
Physical Therapist	$37.56	$26.25	$43.52
Dental Hygienists	$32.02	$23.87	$36.10
Nurse	$29.70	$22.04	$33.53

This is a chart of hourly wages for 10 of the top-paying careers in the Health Science cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.



Principles of Health Science
9-11
½-1 Credits
QH10A0- PEIMS#1302020
The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others..

Health Science
10-12
1-2 Credits
QH15A0 – PEIMS#13020400
Prerequisites: Principles of Health Science and Biology. - The Health Science course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. To pursue a career in the health science industry, students should recognize, learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system.

Medical Terminology
9-12
½-1 Credits
QH16A5/6, QH16D5/6- PEIMS#13020300
This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. To pursue a career in health science, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should understand that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to learn the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

Medical Billing and Coding
11-12
2-3 Credits
QH8630 – PEIMS#
Prerequisites: BIM1, English 3,Health Science preferred with grade of 80 or greater. Students will follow the curriculum that will allow the student to take the Certification exam. Students learn the skills and knowledge to work in any health care facility by preparing the coding of the patients visit and prepare the billing form for insurance payment. Students must meet the number of hours required to take the exam. Practicum in Health Science (Two to Three Credits).(a) General requirements. This course is recommended for students in Grades 11-12. Recommended prerequisites: Health Science and Biology(1) The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.(2) To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others.(3) The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment.(4) Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities

Program of Study: HEALTH PROFESSIONS

9TH	*Principles of Health Science*
10TH	*Health Science*
11TH	*Medical Terminology, Scientific Research & Design, Forensic Science, Career Prep*
12TH	*Anatomy & Physiology, Medical Micro-biology, Pathophysiology*

10 TOP PAYING CAREERS

Occupation	Average Wage	Entry Level Wage	Experienced Wage
Physician	$111.49	$55.30	$224.36
Dentist	$73.82	$36.28	$92.60
Chiropractors	$36.20	$17.03	$45.78
Medical & Health Services Manager	$32.24	$23.60	$45.56
Sales Engineers	$45.24	$27.82	$53.94
Pharmacists	$52.23	$42.68	$57.09
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Dental Hygienists	$32.02	$23.87	$36.10
Nurse	$29.70	$22.04	$33.53

This is a chart of hourly wages for 10 of the top-paying careers in the Health Science cluster in Texas. Note how entry-level wages are often much lower than pay for the average worker and experienced workers in each profession. Source: Texas Workforce Commission.

1. 

Medical Microbiology
10-12
½ - 1 Credits
QH1435 – PEIMS# 13020700
Recommended prerequisites: three credits of science. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum). Medical Microbiology. Students in Medical Microbiology explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases

Pathophysiology
11-12
½ - 1 Credits
QH1836 – PEIMS#13020800
Prerequisites: three credits of science. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum).(1) Pathophysiology. In Pathophysiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology

Scientific Research & Design
11-12
1 Credit
QS1030 – PEIMS#13037200
Prequisite: one unit of high school science. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum).(1) Nature of science. Science, as defined by the National Academy of Sciences, is the "use of evidence to construct testable explanations and predictions of natural phenomena, as well as the knowledge generated through this process." This vast body of changing and increasing knowledge is described by physical, mathematical, and conceptual models. Students should know that some questions are outside the realm of science because they deal with phenomena that are not scientifically testable.(2) Scientific inquiry. Scientific inquiry is the planned and deliberate investigation of the natural world. Scientific methods of investigation are experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked. (4) Scientific systems. A system is a collection of cycles, structures, and processes that interact. All systems have basic properties that can be described in space, time, energy, and matter. Change and constancy occur in systems as patterns and can be observed, measured, and modeled. These patterns help to make predictions that can be scientifically tested. Students should analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment

Principles of Health Science
9-11
½-1 Credits
QH10A0- PEIMS#1302020
The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others..

Health Science
10-12
1-2 Credits
QH15A0 – PEIMS#13020400
Prerequisites: Principles of Health Science and Biology. - The Health Science course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. To pursue a career in the health science industry, students should recognize, learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system.

Medical Terminology
9-12
½-1 Credits
QH16A5/6, QH16D5/6- PEIMS#13020300 This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. To pursue a career in health science, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should understand that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to learn the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

Anatomy & Physiology
10-12
1 Credit
QH11A0 – PEIMS#13020600
Recommended prerequisites: three credits of science. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum). In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Forensic Science
11-12
1 Credit
QL9630 – PEIMS#13029500
Prerequisites: Biology and Chemistry. A course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth

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Have a questions?

Just call us!

Need help finding a phone number? Call WISD at 956-969-6500 or check our website at www.wisd.us

WISD students have an opportunity to enroll in a Texas Virtual School Network. This program provides students the opportunity to participate in distance learning to accrue credits. If you are interested in completing course requirements by using the Texas Virtual School Network, please see you assigned school counselor.

It is the policy of the Weslaco ISD not to discriminate on the basis of limited English language, race, color, national origin, religion, gender, disability or age in any district activity, service, and program including Career and Technology Education. All school activities are also protected under this law as required by the Title VI of the Civil Rights Act of 1964, as amended; title IX of the Education Amendment of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.