

Rockdale
HIGH SCHOOL



2025-26

COURSE GUIDE



**EMPOWER.
CHALLENGE.
ACHIEVE.**



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Rockdale HIGH SCHOOL

Dear Parents and Students,

Welcome to Rockdale ISD—a place where your aspirations meet strategic planning for success. We are committed to making your high school years both memorable and meaningful. This guide is a cornerstone in shaping your unique four-year journey, blending your personal ambitions with the state’s graduation requirements. Together, we aim to ensure every student confidently proclaims: **#RISDisFutureReady**.

As you embark on this educational adventure, each student will create a detailed four-year online plan. This plan goes beyond being just a checklist; it’s a personalized roadmap that integrates essential graduation milestones with your chosen pathway—a true reflection of your future career ambitions and natural talents. Our dedicated counseling team is eager to support you in designing this plan, ensuring it aligns with your interests and strengths. Yearly reviews will help you stay on track and adapt to any changes along the way.

The choices you make now in course selection are vital, as they shape the instructional environment and influence future scheduling possibilities. Please note that schedule modification requests must meet at least one of the following criteria:

- The student is a senior and does not have a course required for graduation.
- The student does not meet the prerequisites for a course.
- The course credit has already been earned (e.g., through summer school, online courses, or a prior year).
- A data-entry error occurred during scheduling (e.g., a course was scheduled twice or a period was left empty).

Please keep in mind that course offerings may change based on enrollment numbers or teacher availability. In such cases, the alternative courses you selected will serve as your next option.

Completing the required curriculum equips you with the foundation needed to excel in state assessments, but it also opens the door to a world of possibilities. Rockdale High School’s diverse elective options empower you to explore potential career paths and nurture your unique talents. These electives go beyond the classroom—they are opportunities to uncover your passions and turn them into purposeful pursuits, all while meeting the state’s educational requirements.

Wishing you an enriching and plan-filled high school experience.

Wendy Mahan

Rockdale High School

Principal

#RISDisFutureReady

SECTION I: General Information

Planning For Your Future

COLLEGE AND CAREER-READY

College and career-ready high school graduates have the skills, knowledge, and abilities needed to succeed, whether they plan to attend college (two- or four-year, or technical school) or go directly into the workforce. Since elementary school, students have been academically prepared and provided with the knowledge and skills necessary to plan their careers and live their lives successfully.

At Rockdale ISD, all of our efforts across the district, from Pre-K to Graduation, are made to ensure each student becomes a successful and productive citizen in our community and society. College—and career-ready students can have a positive influence on their neighborhood and be successful in the workplace.

**Not all indicators are listed. Indicators for students receiving special services will be identified during their IEP*

EVIDENCE OF COLLEGE AND CAREER READINESS

AP Exam	Score 3 or higher			
ACT Exam	Minimum Score of 40 English+Reading	Minimum score of 22 on math		
SAT Exam	Minimum score of 480 on EBRW	Minimum score of 530 on math		
TSIA 2	ELAR - Score of 945-990 w/essay of 5-8 OR...	ELAR - Score of 910-944 with a Diagnostic Level of 5-6 and an Essay of 5-8	Math - Score of 950-990 OR...	Math - Score of 910-949 with a Diagnostic Level of 6
College Prep Course	Seniors - Complete College Bridge in English and Math			
Dual Credit	Earn 3 college hours in ELAR or Math OR...	Earn 9 college hours in any subject		
IBC	Earn an industry-based certification in a CTE course and complete your program of study			
Enlist	Enlist in any military branch			

Post-Secondary Preparation Timeline

Follow this checklist for helpful hints to prepare for your successful future!

8TH GRADE

- Complete Career Survey
- Review Choices offered at RHS and Endorsement options
- Attend the RHS CTE Tour
- Attend the 8th grade parent night to learn about your future at Rockdale High School
- Create your Personal Graduation Plan (PGP)

9TH GRADE

- Create a Resume and update it throughout the year
- Get involved at RHS by joining clubs and doing community service
- Update your Personal Graduation Plan
- Take the TSI if you are planning to take dual credit.

10TH GRADE

- Update your resume throughout the year
- Stay involved at RHS
- Research Colleges, universities, trade schools and the workforce.
- Update your Personal Graduation Plan
- Take the TSI if you are planning to take dual credit.
- Take the PSAT in the fall
- Take the SAT/ACT in the spring.

11TH GRADE

- Update your resume
- Tour College/Career Facilities
- Take the PSAT in fall
- Take the TSI if needed
- Take the ACT/SAT
- Take the ASVAB if military bound
- Update your Personal Graduation Plan

12TH GRADE

- Update your resume
- Ask for 3-5 Letters of Recommendation
- Take the ACT/SAT
- Take the ASVAB if military bound
- Take the TSI if needed
- Complete the FAFSA
- Complete College Applications
- Apply for Scholarships
- Request Transcripts

High School Testing Information



The PSAT is the practice version of the SAT, administered to students during their sophomore or junior year of high school. The PSAT aims to help students measure their readiness to take the SAT when the time comes. Although a student's PSAT scores aren't sent to colleges or taken into consideration for admission, they can qualify them for the National Merit Scholars program, which can help fund their college education through scholarships.

The PSAT is administered each October; many students take it during the school week. There are two required sections within the PSAT: Reading and Writing. PSAT scores range from 320-1520. Scores are typically released online 6-8 weeks after taking the test.



The TSI Assessment (TSIA) is part of the Texas Success Initiative program designed to help your college or university determine if you are ready for college-level coursework in the areas of reading, writing, and mathematics. If you are an incoming college student in Texas, you are required to take the TSI Assessment - unless you are already exempt - to determine your readiness for college-level work. Based on how you perform, you may either be enrolled in a college-level course and/or be placed in the appropriate developmental course or intervention to improve your skills and prepare you for success in college-level courses.



Students take the SAT to measure their readiness for college and to submit their scores to schools when applying. The SAT is offered 7 times a year; test dates are typically on the weekend. There are two required sections within the SAT: Reading and Writing, and Math. The total testing time is 3 hours. SAT scores range from 400-1600.



Students take the ACT to measure their readiness for college and to submit their scores to schools when applying. The ACT is offered 7 times a year; test dates are typically on the weekend. There are four required sections within the ACT: Reading, Science, English, and Math. The total testing time is 2 hours and 55 minutes. There is also an optional Writing section students can complete. ACT scores range from 1-36.



The Armed Services Vocational Aptitude Battery (ASVAB) is a multiple-aptitude battery that measures developed abilities and helps predict future academic and occupational success in the military. It is administered annually to more than one million military applicants, high school, and post-secondary students.

Determining Course Enrollment

PROGRAMS OF STUDY

With help from teachers, guidance counselors, and other influential adults, students will develop their personal graduation plan that identifies the high school academic and skills-based classes, training programs, and apprenticeships that will best prepare them for their career path of choice.

Rockdale ISD offers nine unique Programs of Study in Career and Technical Education that align with the needs of the regional and local economy and the incorporation of industry-based certifications. A full description of the programs of study can be found in section three of this course guide.

Programs of study are designed to:

- Provide students with a course sequence that aligns with an endorsement
- Offer a strong connection between secondary and postsecondary education
- Guide students seeking college and career readiness
- Prepare students for high-wage, in-demand, and high-skill careers

ADVANCED ACADEMICS

The image contains three vertical, rounded rectangular boxes with blue borders and light yellow backgrounds. Each box has a title in a grey oval at the top. The first box is titled 'RAP' and lists five bullet points. The second box is titled 'AP' and lists four bullet points. The third box is titled 'Consider..' and lists five bullet points.

Program	Requirements/Details
RAP	<ul style="list-style-type: none">• Rockdale Accelerated Program (RAP)• Prepares students for STAAR• Prepares students for college level courses• Students will be required to read and write in and out of class• Courses do not offer college credit
AP	<ul style="list-style-type: none">• Advanced placement courses• Expected to take the ap exam• AP exam scores of 3 or more count as performance acknowledgements and may earn college credit• Students with expertise can take the exam without taking the course. talk with your counselor for details
Consider..	<ul style="list-style-type: none">• Interest in intense course material• Strong personal commitment• Strong academic history• Ability to dedicate the time• Willingness to work hard

Requirements for enrolling in RAP or AP Classes

RHS will use multiple data points to determine eligibility for advanced classes. These may include previous course grades, STAAR/EOC results, mock EOC assessments, and TSI/pACT/pSAT/ACT/SAT scores.

Access to Advanced Academic Courses for Students Receiving Special Education or 504 Services:

Rockdale Independent School District encourages all students to pursue educational opportunities to meet their future goals. The following guidelines are intended to apply to eligible special education and Section 504 students who enroll in Rockdale Accelerated Program (RAP) or Advanced Placement (AP) courses. RAP and AP courses are open to any student wishing to enroll who meets admission requirements. Guidelines for admission are:

- Completion of all prerequisite courses as listed in course guides
- Intense interest in the course
- Strong commitment by the student to complete all requirements of the course
- Reasonable set of learning skills related to the subject

For students who receive services through Special Education or Section 504, careful consideration must be made by all student support systems to ensure appropriate placement and accommodations. IEP/Section 504 Committees, students, counselors, and parents should know that these are high-level academic courses with increased rigor and additional standards than traditional high school courses.

If the student is eligible for an accommodation in a general education classroom, this accommodation may also be available in a RAP or AP class. *Accommodations shall not be implemented if they alter the content or standards of the course.* The following guidelines shall apply to all special education and Section 504 students who enroll in a RAP/AP course:

1. Upon meeting requirements, special education and/or Section 504 students shall have equal opportunity to participate in RAP or AP courses.
2. Access to a Free Appropriate Public Education (FAPE) does not include access to gifted, enriched, or advanced programs. Regular education programs meet the requirements of FAPE.
3. While IEP/Section 504 committees may wish to consider RAP or AP courses for students who will be attending college, these committees are not required to place students in RAP or AP classes unless they can reasonably expect the student to be successful in the course with the allowable accommodations described in the guidelines below. Special Education students may consider these courses part of their transition plan, as appropriate.
4. Accommodations for special education and Section 504 students may not alter the content or academic standards of the RAP or AP course. Thus, certain allowable accommodations, based on the student's disability and determined by the IEP/504 committee, must be provided in RAP/AP classes with the same frequency and rigor as general education.
5. The following are examples of accommodations that would alter the content or standards of the course and, therefore, are not allowed:
 - Special projects in place of assignments
 - Exams of reduced length
 - Open book exams
 - Reduced mastery
 - Reteaching difficult tasks
 - Any reduction of content or standards of the course
6. It is important to note that accommodations on College Board exams are subject to approval by the College Board (similar to the SAT and ACT). Appropriate requests for accommodations must be submitted for approval well in advance of the testing period. While the decision to enroll in a RAP or AP class is ultimately to be made by the parent or student, the IEP or Section 504 Committee may meet and recommend the removal of the student from the RAP/AP classroom if the student is not meeting the standards applicable to students in the program and, as a result, is failing or at risk of failure.

ADDITIONAL OPTIONS FOR EARNING HIGH SCHOOL-CREDIT

The following are circumstances where students may have the option to learn a skill, earn high school credit, and/or earn college credit in a setting other than the traditional high school classroom:

CREDIT BY EXAMINATION (CBE)	CREDIT RECOVERY
<p>Students may take credit by examination for credit recovery or validation of credit to demonstrate proficiency in the subject matter.</p> <p>Students wishing to recover or validate credits (9-12) can arrange with The University of Texas to take the exam. School districts are not required to provide these assessments.</p> <p>If a student wishes to take a CBE, a parent or guardian must make arrangements directly with the testing organization and pay the fees associated with the exams.</p>	<p>Through computer-assisted instruction, students may gain credit for failed courses.</p> <p>Credit recovery is available during the school day as well as after school.</p> <p>Not all courses are eligible for recovery.</p> <p>Students should contact their school counselor for information.</p>

SCHEDULE CHANGES

Schedule changes will be considered during the first week of school.

A student who withdraws from a course will have the grade in that course applied to the new course. A student who changes courses assumes responsibility for the full content of the new course on the final exam.

Students who enroll in a RAP or AP course commit to completing the course. Due to the rigorous nature of the course, students should remain in the chosen course for the first three weeks of school in order to acclimate to the expectations and provide adequate time for both the teacher and students to gauge the appropriateness of the course selection. Schedule changes will not occur until after the fourth week and no later than the fifth week of the semester.

To initiate a change out of a RAP or AP class, a conference must occur between the student, parent/guardian, teacher, and principal or designee to determine educational needs. If the course is changed, the student's grade (without weighting) will transfer to the new class.

OFF-CAMPUS PERIODS

Juniors and seniors are eligible for **one** off period per school year under the following conditions:

- Senior Students must have met CCR to be eligible for an off period.
- If the Senior student has met the "College and Career Ready" standard, he/she is eligible for 1 additional off-campus period to prepare for his/her post-secondary plans (maximum of 2 periods).
- The student requesting an off-campus period must have transportation to leave campus EACH DAY.
- Students must complete all credit recovery before they will be granted an off period.

The principal can revoke off-campus period privilege at any time.

DUAL CREDIT GUIDELINES

Dual Credit Tuition

Under the Financial Aid for Swift Transfer (FAST) program, a student who is or has been educationally disadvantaged at any time during the four years preceding the student's enrollment in a dual credit course may be able to enroll at no cost to the student. The district will determine eligibility upon the student's enrollment in the dual credit course. See the high school counselor for more information.

Tuition Paid by the District

A minimum of six (6) college credit hours of tuition per semester will be paid for by the district for an RISD student enrolled in a dual credit course with Temple College under the following conditions:

- Student completed and submitted the Application for Free and Reduced-Price School Meals
- Student met all state, Temple College, and Rockdale ISD requirements for enrollment
- Students enrolled in courses during the fall and/or spring semester
- Student earns a 70 or higher in the course

Additional credit hours may be funded depending on district allocations.

Special Notices

Any portion not covered by the district is the student's and parent's responsibility. No tuition for summer/evening courses will be paid. Parents and students are responsible for the cost of all textbooks and additional fees required for Dual Credit courses.

If a student does not attend class, drops the course after the deadline, and/or does not make a 70 or higher in the course, the student and/or parent will reimburse the district for the cost of any tuition the school has paid. Additionally, if the student wishes to make another attempt at a dual-credit course, the student will be responsible for the cost of the course in advance.

Earning Credit and Registration

- A student must have a minimum grade of 70 in all college and high school courses taken at the end of each semester to register for courses the following semester.
- Students must receive a grade of C or better (70 or better) for high school credit.

A student must understand that these college-level courses are rigorous and will require intensive preparation. Not all colleges and universities accept credit earned in all dual credit or AP courses taken in high school for college credit. Students and parents should check with the prospective college or university to determine if a particular course will count toward the student's desired degree plan.

Texas Bioscience Institute: Temple College - Hutto

The Texas Bioscience Institute Middle College Program offers high school juniors and seniors an opportunity to earn up to two years of STEM-focused college credit and an Associate's Degree before they graduate from high school. Classes are currently held at the Hutto campus of Temple College.

The district will not provide transportation to or from the Temple College campus for the TBI program. Please see the counselors for more information.

Students must adhere to the degree plan set forth by the TBI program and approved by RISD. Any course changes must be approved by RISD administration before dropping or adding courses, or the student is subject to removal from the program and will return to RHS for all courses.

DUAL CREDIT ELIGIBILITY REQUIREMENTS

Academic Requirements

For Academic Dual Credit Courses, the dual credit student must meet the TSI benchmarks or one of the exemptions.

Rockdale ISD Requirements

The dual credit student must:

- Have had all passing grades for each six-week and semester period the previous school year.
- Have had less than five disciplinary referrals and zero suspensions during the previous year.
- Have met state attendance requirements the previous school year.
- Have met state standards on all portions of the STAAR/EOC exams.
- Be a full-time student at Rockdale High School.
- Must complete the Application for Free and Reduced-Price School Meals.

Any exception to eligibility requirements must be approved by the principal.

DUAL CREDIT OPPORTUNITIES

The following courses are offered in cooperation with Temple College. Course offerings are contingent upon the availability of staff, course schedule, and enrollment. All Temple College Dual Credit courses follow the Temple College Calendar.

Texas Bioscience Institute (TBI) Dual Credit AND Workforce Dual Credit

TBI - Biology	TBI - Computer Information	TBI - Allied Health	TBI - Pre Nursing	TBI - Engineering Technology	EMET*
Hutto Location	Hutto Location	Hutto Location	Hutto Location	Hutto Location	Rockdale High School

*Workforce Education Dual Credit

** TBI courses can not be taken concurrently with the EMET program

Texas Bioscience Institute (TBI) White Coat Ceremony

The Texas Bioscience Institute (TBI) White Coat Ceremony is a ceremonial induction for new students into the TBI program at Temple College. The ceremony is a rite of passage that marks the beginning of a student's journey in the program.

What happens at the ceremony?

- New students receive their white coats
- The ceremony is usually held 1-2 weeks before the start of classes
- Family, friends, faculty, and school leaders attend
- The ceremony celebrates the students' commitment to the program

What does the white coat symbolize?

- The white coat symbolizes the students' dedication to the program and the medical profession
- It also represents their commitment to providing compassionate and respectful care to patients

Earning Your High School Diploma

CLASSIFICATION OF STUDENTS

Grade 9 - "Freshman"

Successful completion of 8th Grade

Grade 10 - "Sophomore"

7 Credits – including 1 credit for English, 1 credit in math, 1 credit in science or social studies

Grade 11 - "Junior"

14 Credits – including 2 credits in English, 2 credits in math, and a minimum of 3 credits in science and social studies combined.

Grade 12 - "Senior"

21 Credits earned by the beginning of the school year

**Grade reclassification is addressed upon completion of each academic semester*

CREDITS REQUIRED TO GRADUATE AND CONSIDERATIONS

The student and his/her parents must determine a specific graduation option. Students have the following options: Foundation, Foundation with Endorsement(s), or Foundation with Endorsement(s) Distinguished. RISD graduates are awarded the same type of diploma. The academic achievement record (transcript), rather than the diploma, records individual accomplishments, achievements, and courses completed.

Plan	Credits	Other Requirement
Distinguished Foundation Plan with Endorsements	28 Credits	Must take Algebra II
Foundation Plan with Endorsements	28 Credits	
Foundation Plan*	24 Credits	Admin Committee Approval

**Rockdale ISD reserves the right, under extenuating circumstances, to lower the student's credit requirement for graduation to the state level.*

A student's four-year plan/personal graduation plan and planned Program of Study should reflect a student's career goals. Specific career and technical programs aim to provide the student with occupational skills that will enable him/her to enter a related job.

Reviewing Assessment Policies

STATE OF TEXAS TESTING REQUIREMENTS

State of Texas Assessments of Academic Readiness

Under House Bill 5 (HB 5), passed by the 83rd Texas Legislature and signed by the governor, students must pass five State of Texas Assessments of Academic Readiness (STAAR) end-of-course exams to meet graduation requirements.

The five assessments required under HB 5 are Algebra I, English I (combined reading/writing), English II (combined reading/writing), Biology, and U.S. History. Students must pass all five of these end-of-course assessments to be eligible to graduate from a Texas public high school. Students who are unsuccessful on their first attempt will receive accelerated instruction and additional opportunities each school year to demonstrate satisfactory performance on that exam to meet the state's graduation requirements.

Students who are not successful on English and/or math EOCs will be required to take an additional course the following year for accelerated instruction.

Students identified with a disability or limited English proficiency and served through Special Education, 504, or Bilingual/ESL education may meet the state's eligibility criteria for specially designed STAAR exams. For details, please see your school counselor.

GRADING POLICY

The lowest passing grade is 70, mandated by the Texas Education Agency. All students and parents must understand the RHS grading policy for the semester system.

Students will not receive credit for any semester below 70 unless a student's average for both semesters of a two-semester course is 70 or above and no one semester is below 55. Both semesters must have been taken during the same school year to average.

Examples of Grading Policy

Example 1		Example 2	
1st Semester	65	1st Semester	67
2nd Semester	70	2nd Semester	74
Year Average	67.5	Year Average	70.5
Credit awarded (0.5) for 2nd Semester only		Credit awarded (1.0) for both semesters	

TRANSFER GRADE POLICY

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

A+ = 98	B+ = 88	C+ = 79	D+ = 74	F = 65
A = 95	B = 85	C = 77	D = 72	
A- = 90	B- = 80	C- = 75	D- = 70	

WEIGHTED GPA AND CLASS RANK

The District shall categorize and weight eligible courses as either Preparatory or Regular per provisions of this policy and as designated in the appropriate District publication.

Eligible Advanced Placement (AP), Rockdale Accelerated Program (RAP), Academic Dual Credit courses, and other locally designated courses shall be categorized and weighted as Preparatory courses.

Each course's semester average will be used to determine class rank in grades 9-11. To determine honors to be conferred during graduation activities, the District shall calculate class rank by using grades available at the time of calculation at the end of the third week of the sixth six-week grading period of the senior year. Grades received in May for dual credit courses shall also be included in the calculation using grades available at the time of calculation.

All units of credit for graduation shall be earned in grades 9 – 12. A few courses are available at the junior high level for high school credit, such as Algebra I – 1 credit, Art I – 1 credit, and some CTE courses. The District shall include in the calculation of class rank semester grades earned in high school credit courses taken in grades 9–12 only. (Board Policy EIC - Local). Any changes to this would be updated in the Board Policy.

The following courses shall not be included in the ranking: Band (first semester), Physical Education, Athletics, and Drill Team, student aide courses, correspondence courses, credit-by-exam with prior instruction, credit-by-exam without prior instruction. **All other courses are regular, with the following exceptions:**

Weighted GPA Advanced Academic Courses

English I (RAP)	Alg II (RAP)	Biology I (RAP)	World Geography (RAP)	Spanish III (RAP)
English II (RAP)	Geometry (RAP)	Physics (RAP)	World History (RAP)	Spanish IV (AP)
English III (Dual Credit)	Precalculus (AP)	Chemistry (RAP)	US History (Dual Credit)	Spanish III Native Speaker (RAP)
English IV (Dual Credit)	Calculus (AP)	Biology (AP)	Gov/Eco (Dual Credit)	Spanish IV Native Speaker (RAP)
			Art IV (AP)	Spanish (Dual Credit)

SECTION II: Graduation Plans

GRADUATION TYPES

Foundation Program

The Foundation Program is 24 credits. A student may be allowed to graduate under the foundation program only after the student's sophomore year if the student and parent/guardian are advised of the benefits of graduating with one or more endorsements and the parent/guardian files written permission with the school counselor.

Foundation Program with Endorsements

A student must earn 28 credits to earn an endorsement. Endorsements may be established in five categories: STEM, Business and Industry, Public Service, Arts and Humanities, and Multi-Disciplinary. Each student entering grade nine will indicate an endorsement choice in writing. The district will allow a student to choose at any time, to earn an endorsement other than the one previously selected.

Foundation Program with Endorsement: Distinguished Level of Achievement

Students may earn a distinguished level of achievement by completing the curriculum requirements for the Foundation High School Program and the curriculum requirements for at least one endorsement, including 4 credits in science and 4 credits in math, including Algebra II. The distinguished level of achievement allows the student to be eligible for the top 10% automatic college admission in Texas.

Rockdale Independent School District

House Bill 5 Graduation Plans

Distinguished Level of Achievement Graduation Plan - 28 Credits

Students must fulfill the Graduation requirements of at least 1 of the 5 Endorsements below, 4 advanced measures, and complete Algebra II

Performance Acknowledgements

Outstanding Performance on AP, PSAT, SAT, and/or ACT
 Completion of Dual Credit
 Certifications: Earning an Industry Based Certification

Foundation + Endorsement Graduation Plan - 28 credits

STEM	Business & Industry	Public Service	Arts & Humanity	Multidisciplinary Studies
4 English - I, II, III, & IV	4 English - I, II, III, & IV	4 English - I, II, III, & IV	4 English - I, II, III, & IV	4 English - I, II, III, & IV
4 Math - Algebra I, Geometry, Algebra II, 1 Adv. Math	4 Math - Algebra I, Geometry, Algebra II, 1 Adv. Math	4 Math - Algebra I, Geometry, Algebra II, 1 Adv. Math	4 Math - Algebra I, Geometry, Algebra II, 1 Adv. Math	4 Math - Algebra I, Geometry, Algebra II, 1 Adv. Math
4 Sciences - Biology, IPC/Chemistry, Physics, 1 Adv. Science	4 Sciences - Biology, IPC/Chemistry, 2 Additional Science	4 Sciences - Biology, IPC/Chemistry, 2 Additional Science	4 Sciences - Biology, IPC/Chemistry, 2 Additional Science	4 Sciences - Biology, IPC/Chemistry, 2 Additional Science
4 Social Studies - Geography, World History, US History, Govt (0.5), Eco (0.5)	4 Social Studies - Geography, World History, US History, Govt (0.5), Eco (0.5)	4 Social Studies - Geography, World History, US History, Govt (0.5), Eco (0.5)	4 Social Studies - Geography, World History, US History, Govt (0.5), Eco (0.5)	4 Social Studies - Geography, World History, US History, Govt (0.5), Eco (0.5)
2 Foreign Languages	2 Foreign Languages	2 Foreign Languages	2 Foreign Languages	2 Foreign Languages
1 Physical Education	1 Physical Education	1 Physical Education	1 Physical Education	1 Physical Education
1 Fine Art	1 Fine Art	1 Fine Art	1 Fine Art	1 Fine Art
1 Elective in STEM	4 Electives in Business & Industry Pathway	4 Electives in Public Service Pathway	4 Electives in Arts & Humanities Pathway	4 Electives in Multidisciplinary
4 Additional Electives	4 Additional Electives	4 Additional Electives	4 Additional Electives	4 Additional Electives

Foundation Graduation Plan - 24 Credits

4 English - English I-IV
 3 Science - Biology, IPC/Chemistry & 1 advanced
 3 Math - Algebra I, Geometry, & 1 advanced
 3 Social Studies - World Geography, US History, Government (0.5) & Economics (0.5)

2 Foreign Languages
 1 Physical Education
 1 Fine Art
 7 Electives

Agriculture, Food, and Natural Resources Career Cluster

AG TECHNOLOGY AND MECHANICAL SYSTEMS



Example Post Secondary Opportunities

Apprenticeships

- Farm Equipment Mechanic I

Associate Degrees

- Diesel Mechanics Technology
- Industrial Mechanics and Maintenance Technology

Bachelor's Degrees

- Agricultural Engineering
- Agricultural Systems Management

Master's, Doctoral, and Professional Degrees

- Agricultural Engineering
- Industrial Technology

Example Aligned Occupations

Farm Equipment Mechanics and Service Technicians

Median Wage: \$46,582
Annual Openings: 326
10-Year Growth: 23%

Mobile Heavy Equipment Mechanics

Median Wage: \$57,943
Annual Openings: 2,637
10-Year Growth: 31%

Farmers, Ranchers, and Other Agricultural Managers

Median Wage: \$65,490
Annual Openings: 28,020
10-Year Growth: 4%

Certifications:

AWS D1.1 (IBC 340)
AWS D9.1 (IBC 350)

Organizations:

FFA

Level One

Principles of Agriculture, Food, & Natural Resources
13000200 (1 credit)

Level Two

Agricultural Mechanics and Metal Technologies
13002200 (1 credit)

Level Three

Agricultural Structures Design and Fabrication + Agricultural Laboratory and Field Experience
13002310 (2 Periods)

Level Four

Practicum in Agriculture, Food, and Natural Resources
13002500 (2 periods)

Career Preparation for Program of Study
12701141 (3 Periods)

Agriculture, Food, and Natural Resources Career Cluster

ANIMAL SCIENCE



Business and Industry Endorsement

Example Post Secondary Opportunities

Apprenticeships

- Reproduction Technician

Associate Degrees

- Biological and Physical Sciences
 - Entomology

Bachelor's Degrees

- Animal Science
- Zoology/Animal Biology

Master's, Doctoral, and Professional Degrees

- Marine Sciences
- Biotechnology

Example Aligned Occupations

Veterinary Assistants and Laboratory Animal Caretakers

Median Wage: \$29,906
Annual Openings: 1,348
10-Year Growth: 24%

Veterinary Technologists and Technicians

Median Wage: \$33,679
Annual Openings: 1,217
10-Year Growth: 24%

Veterinarian

Median Wage: \$103,160
Annual Openings: 347
10-Year Growth: 26%

Certifications

Elanco Fundamentals of Animal Science Certification (986)

Small Animal Science and Technology (1039)

Organizations

FFA

Level One

Principles of Agriculture, Food, & Natural Resources

13000200 (1 credit)

Level Two

Small Animal Management

13000400 (0.5 credit)

Equine Science

13000500 (0.5 credit)

Entrepreneurship I

13011101 (1 credit)

Level Three

Livestock Production

13000300 (1 credit)

Level Four

Advanced Animal Science

13000700 (1 credit)

Practicum in Agriculture, Food, and Natural Resources

13002500 (2 periods)

Career Preparation for Program of Study

12701141 (3 Periods)

Agriculture, Food, and Natural Resources Career Cluster

PLANT SCIENCE



Example Post Secondary Opportunities

Apprenticeships

- Horticulturist

Associate Degrees

- Biology/Biological Sciences
- Biological and Physical Sciences

Bachelor's Degrees

- Horticulture
- Plant Pathology/Phytopathology

Master's, Doctoral, and

Professional Degrees

- Plant Breeding
- Botany/Plant Biology

Level One

Principles of Agriculture, Food, & Natural Resources

13000200 (1 credit)

Level Two

Entrepreneurship I

13011101 (1 credit)

Greenhouse Operations

13002050 (1 Credit)

Level Three

Floral Design

13001800 (1 credit)

Level Four

Advanced Floral Design

N1300270 (1 credit)

Career Preparation for Program of Study

12701141 (3 Periods)

Example Aligned Occupations

Pesticide Handlers, Sprayers, and Applicators, Vegetation

Median Wage: \$46,153

Annual Openings: 205

10-Year Growth: 17%

Biological Technicians

Median Wage: \$45,787

Annual Openings: 879

10-Year Growth: 14%

Farmers, Ranchers, and Other Agricultural Managers

Median Wage: \$65,490

Annual Openings: 28,020

10-Year Growth: 4%

Certifications

Texas State Florists' Association Knowledge Based Floral
Certification (812)

Texas State Florists' Association Level I Floral Certification
(813)

Texas State Florists' Association Level II Floral Certification
(814)

Organizations

FFA

Arts, Audio-Visual Technology, and Communications

GRAPHIC DESIGN AND INTERACTIVE MEDIA



Example Post Secondary Opportunities

Associate Degrees

- Graphic Design
- Digital Arts

Bachelor's Degrees

- Web Page, Digital/Multimedia and Information Resources Design
- Design and Visual Communications

Master's, Doctoral, and Professional Degrees

- Game and Interactive Media Design
- Animation, Interactive Technology, Video Graphics, and Special Effects

Example Aligned Occupations

Software Developers

Median Wage: \$111,705
Annual Openings: 15,324
10-Year Growth: 36%

Graphic Designers

Median Wage: \$50,973
Annual Openings: 1,766
10-Year Growth: 10%

Art Directors

Median Wage: \$81,926
Annual Openings: 619
10-Year Growth: 18%

Certifications

Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator (15)
Adobe Certified Professional in Visual Design Using Adobe Photoshop (17)

Organizations:

Skills USA

Level One

Principles of Arts, Audio + Video Technology, and Communications

13008200 (1 credit)

Digital Media

13027800 (1 credit)

Level Two

Graphic Design and Illustration I

13008800 (1 credit)

Commercial Photography I

13009100 (1 credit)

Entrepreneurship I

13011101 (1 credit)

Level Three

Graphic Design and Illustration II

13008900 (1 credit)

Commercial Photography II

13009200 (1 credit)

Level Four

Practicum in Graphic Design and Illustration

13009000 (2 credits)

Practicum in Commercial Photography

13009250 (2 credits)

Career Preparation for Program of Study

12701141 (3 Periods)

Business, Marketing, & Finance

BUSINESS MANAGEMENT



Example Post Secondary Opportunities

Associate Degrees

- Business Administration and Management
- Human Resources Management

Bachelor's Degrees

- Business Analytics
- Accounting and Business

Master's, Doctoral, and Professional Degrees

- Business Administration and Management
- Organizational Leadership

Example Aligned Occupations

First-Line Supervisors of Administrative Support Workers

Median Wage: \$59,585
 Annual Openings: 13,885
 10-Year Growth: 9%

Human Resources Specialists

Median Wage: \$61,278
 Annual Openings: 6,239
 10-Year Growth: 23%

General and Operations Managers

Median Wage: \$83,220
 Annual Openings: 25,450
 10-Year Growth: 23%

Certifications

- Microsoft Office Specialist: Microsoft Excel Expert (Excel 2019)
- Microsoft Office Specialist: Microsoft Word Expert (Word 2019)

Organizations:

Skills USA

Level One

Business Information Management I

13011400 (1 credit)

Level Two

Business Information Management II

13011500 (1 credit)

Entrepreneurship I

13011101 (1 credit)

Level Three

Business Management

13012100 (1 credit)

Level Four

Practicum in Business Management

First Time Taken:
 13012200 (2 credits)

Career Preparation for Program of Study

12701141 (3 Periods)

Education and Training

TEACHING AND TRAINING



Example Post Secondary Opportunities

Apprenticeships

Teacher Apprentice

Associate Degrees

- Adult and Continuing Education and Teaching
- Educational/Instructional Technology

Bachelor's Degrees

- Elementary Education and Teaching
- Secondary Education and Teaching

Master's, Doctoral, and Professional Degrees

- Educational Leadership and Administration, General
- Curriculum and Instruction

Level One

Principles of Education and Training

13014200 (1 credit)

Level Two

Child Development

13024700 (1 credit)

Level Three

Instructional Practices

13014400 (2 credits)

Level Four

Practicum in Education and Training

First Time Taken:

13014500 (2 credits)

Career Preparation for Program of Study

12701141 (3 Periods)

Example Aligned Occupations

First-Line Supervisors of Administrative Support Workers

Median Wage: \$59,585

Annual Openings: 13,885

10-Year Growth: 9%

Human Resources Specialists

Median Wage: \$61,278

Annual Openings: 6,239

10-Year Growth: 23%

General and Operations Managers

Median Wage: \$83,220

Annual Openings: 25,450

10-Year Growth: 23%

Certifications

Educational Aide I

Organizations:

TAFE

Health Sciences

DIAGNOSTIC & THERAPEUTIC SERVICES



Example Post Secondary Opportunities

Apprenticeships

- Medical Assistant

Associate Degrees

- Emergency Medical Technology
- Radiologic Technology/Science

Bachelor's Degrees

- Emergency Medical Technology
- Medical Insurance Coding

Master's, Doctoral, and Professional Degrees

- Medicine
- Occupational Therapy

Level One

Principles of Health Science

13020200 (1 credit)

Level Two

Medical Terminology

13020300 (1 credit)

Level Three

Health Science Theory

13020400 (1 credit)

Anatomy and Physiology

13020600 (1 Credit)

Level Four

Practicum in Health Science

13020500 (2 credits)

Career Preparation for Program of Study

12701141 (3 Periods)

Example Aligned Occupations

Medical Assistants

Median Wage: \$36,834
Annual Openings: 11,638
10-Year Growth: 29%

Dental Hygienists

Median Wage: \$79,663
Annual Openings: 1,352
10-Year Growth: 32%

Physician Assistants

Median Wage: \$127,332
Annual Openings: 974
10-Year Growth: 41%

Certifications

Certified Nurse Aide (CNA) 390
Certified EKG Technician (380)
Certified Clinical Medical Assistant (470)

Organizations:

HOSA

Engineering and Architecture & Construction

ELECTRONICS TECHNOLOGY



Example Post Secondary Opportunities

Associate Degrees

- Electromechanical Technology
- Electronic Controls Technology
- Electronics Technician Specialization

Bachelor's Degrees

- Electrical Engineering
- Engineering Technology

Master's, Doctoral, and Professional Degrees

- Electrical Engineering
- Master of Science in Engineering with a major in semiconductor science and engineering

Level One

Principles of Manufacturing
13032200 (1 credit)

Level Two

AC/DC Electronics
13036800 (1 credit)

Level Three

Digital Electronics
13037600 (1 credit)

Level Four

**Practicum in Manufacturing +
Extended Practicum in
Manufacturing**
13033005 (3 credits)

**Career Preparation for
Program of Study**
12701141 (3 Periods)

Example Aligned Occupations

Electrical and Electronics Repairers

Median Wage: \$61,099
Annual Openings: 624
10-Year Growth: 18%

Electrical and Electronic Engineering Technologists and Technicians

Median Wage: \$62,968
Annual Openings: 1,156
10-Year Growth: 14%

Semiconductor Processing Technicians

Median Wage: \$36,902
Annual Openings: 662
10-Year Growth: 10%

Certifications
NCCER Core

Networking Systems

INFORMATION TECHNOLOGY CAREER CLUSTER

Manufacturing



Example Post Secondary Opportunities

- Apprenticeships
 - Network Engineer Apprenticeship
- Associate Degrees
 - Computer Systems Networking and Telecommunications
 - Network and System Administration
- Bachelor's Degrees
 - Computer and Information Sciences
 - Information Technology
- Master's, Doctoral, and Professional Degrees
 - Computer Science
 - Information Technology

Level One

Principles of Information Technology

13027200 (1 credit)

Level Two

Computer Maintenance

13027300 (1 credit)

Entrepreneurship I

13011101 (1 credit)

Level Three

Networking

13027400 (1 credit)

Level Four

Practicum in Information Technology

13028000 (1 credit)

Example Aligned Occupations

Computer Network Support Specialists

Median Wage: \$65,646
Annual Openings: 1,634
10-Year Growth: 19%

Computer Systems Analysts

Median Wage: \$101,716
Annual Openings: 4,985
10-Year Growth: 19%

Network and Computer Systems Administrators

Median Wage: \$85,375
Annual Openings: 2,900
10-Year Growth: 20%

Certifications

570 Microsoft Office Specialist: Microsoft Word Expert (Word 2019)

Organizations:

Skills USA

SECTION IV: Course Offerings and Descriptions

ENGLISH LANGUAGE ARTS

0111	English I		(ENG 1)	ENGL
9	03220100	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): None

Fee Required: No

Description: English I students increase and refine their communication and literacy skills by engaging in meaningful activities in five key areas. Reading: Students read a wide variety of literary and informative texts. Writing: Students compose a variety of well-organized and detailed texts. Listening and Speaking: Students listen to others and contribute their own ideas in groups. Oral and Written Conventions: Students learn and apply the standards of English in speaking and writing.

0110	English I (RAP)		(ENG 1)	ENGL
9	03220100	Length of Course: Year	Credit: 1	5.0

Prerequisite(s): See Accelerated Program recommendations

Fee Required: No

Description: English I RAP is a rigorous course recommended for students who achieve college-ready or commended STAAR scores and love reading and writing. It serves as the foundation for the Advanced Placement language and literature courses. Students will experience the elements of English I with an emphasis on developing critical thinking and analysis of the style of selected authors and works through required reading, discussions, essays, and exams. This course includes a summer reading component.

0121	English II		(ENG 2)	ENGL
10	03220200	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): None

Fee Required: No

Description: English II students continue to increase and refine their communication and literacy skills by engaging in meaningful activities in five key areas. Reading: Students read a wide variety of literary and informative texts. Writing: Students compose a variety of well-organized and detailed texts. Listening and Speaking: Students listen to others and contribute their own ideas in groups. Oral and Written Conventions: Students learn and apply the standards of English in speaking and writing.

0120	English II (RAP)		(ENG 2)	ENGL
10	03220200	Length of Course: Year	Credit: 1	5.0

Prerequisite(s): See Accelerated Program recommendations

Fee Required: No

Description: English II RAP is a rigorous course recommended for students who achieve college-ready or commended STAAR scores and love reading and writing. It serves as the foundation for the Advanced Placement language and literature courses. Students will experience the elements of English II with an emphasis on developing critical thinking and analysis of the style of selected authors and works through required reading, discussions, essays, and exams. This course includes a summer reading component.

0131	English III		(ENG 3)	ENGL
11	03220300	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): None

Fee Required: No

Description: English III students continue to increase and refine their communication and literacy skills by engaging in meaningful activities in five key areas. Reading: Students read a wide variety of literary and informative texts. Writing: Students compose a variety of well-organized and detailed texts. Listening and Speaking: Students listen to others and contribute their own ideas in groups. Oral and Written Conventions: Students learn and apply the standards of English in speaking and writing.

0132	English III (Dual Credit) FALL		(ENG 3)	ENGL
11	03220300	Length of Course: Semester	Credit: .5	5.0

Prerequisite(s): College admission

Fee Required: No

Description: Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually; and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis.

0133	English III (Dual Credit) SPRING		(ENG 3)	ENGL
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11	03220300	Length of Course: Semester	Credit: .5	5.0
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Prerequisite(s): College admission **Fee Required:** No

Description: Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

0141	English IV		(ENG 4)	ENGL
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12	03220400	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): None **Fee Required:** No

Description: English IV students continue to increase and refine their communication and literacy skills by engaging in meaningful activities in five key areas. Reading: Students read a wide variety of literary and informative texts. Writing: Students compose a variety of well-organized and detailed texts. Listening and Speaking: Students listen to others and contribute their own ideas in groups. Oral and Written Conventions: Students learn and apply the standards of English in speaking and writing.

0142	English IV (Dual Credit) FALL		(ENG 4)	ENGL
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12	03220400	Length of Course: Semester	Credit: .5	5.0
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Prerequisite(s): None **Fee Required:** No

Description: A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

0143	English IV (Dual Credit) SPRING		(ENG 4)	ENGL
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12	03220400	Length of Course: Semester	Credit: .5	5.0
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Prerequisite(s): None **Fee Required:** No

Description: A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors and traditions.

	Communication 1, 2, 3, or 4			ENGL
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9-12		Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): Placement by ARD **Fee Required:** No

Description: These courses are basic reading improvement courses designed to be self-paced and increase general reading comprehension and skill. Courses are designed to improve basic communication strategies essential to success in the workplace. Skills emphasized are basic grammar, vocabulary and writing in the context of business/industry communication.

MATHEMATICS

0212	Algebra I						
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9	03100500		Length of Course: Year	Credit: 1			
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Prerequisite(s): 8th Grade Math **Fee Required:** No

Description: Students will build and expound on the existing knowledge and skills from previous math courses to form a solid mathematical foundation. Students will study linear equations, systems of linear equations, quadratic and exponential functions, and their related transformations, equations, and associated solutions in mathematical and real-world situations.

0221	Algebra II						
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10-12	03100600		Length of Course: Year	Credit: 1			
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Prerequisite(s): Geometry **Fee Required:** No

Description: 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 mathematical and real-world situations. Students will use graphing calculators and other technology.

0222	Algebra II (RAP)						
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10-12	03100600		Length of Course: Year	Credit: 1			
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Prerequisite(s): Geometry; See Accelerated Program recommendations **Fee Required:** No

Description: 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 mathematical and real-world situations. Students will occasionally use graphing calculators and other technology as deemed appropriate. This advanced math course is geared to the needs of students who intend to pursue the discipline through Calculus. ***Students who wish to take advanced placement math exams during their junior and/or senior year should consider this course.***

0220	Geometry						
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10-12	03100700		Length of Course: Year	Credit: 1			
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Prerequisite(s): Algebra I **Fee Required:** No

Description: In Geometry, students will build on the knowledge and skills for mathematics 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, proof and congruence, similarity, trigonometry, two- and three-dimensional figures, circles, and probability. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. Due to the emphasis on 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.

0223	Geometry (RAP)						
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9-10	03100700		Length of Course: Year	Credit: 1			
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Prerequisite(s): Algebra I; see Accelerated Program recommendations **Fee Required:** No

Description: In Geometry, students will build on the knowledge and skills for mathematics 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, proof and congruence, similarity, trigonometry, two- and three-dimensional figures, circles, and probability. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. Due to the emphasis on 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. ***Students who wish to take advanced placement math exams during their junior and/or senior year should consider this course.***

0210	Algebraic Reasoning		(ALGREA)	MATH
11-12	03102540	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Geometry			Fee Required: No	
Description: In Algebraic Reasoning, students will build on previous knowledge and skills and continue to develop mathematical reasoning related to algebraic understandings and processes. 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, including explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build workforce and college readiness.				
0231	Pre-Calculus		(PRE CALC)	MATH
11-12	03101100	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Algebra II			Fee Required: No	
Description: This course is designed to prepare college-bound students with an emphasis on problem-solving. Where appropriate, topics will be approached from an application point of view to strengthen and enhance a conceptual understanding of mathematical reasoning used when modeling and solving real-world problems. The study of pre-calculus deepens students' mathematical understanding and fluency with algebra and trigonometry. The course will cover trigonometric functions, rational functions and inequalities, exponentials and logarithmic functions, polar coordinates, conics, and vectors.				
0232	AP Precalculus		(APPRECAL)	MATH
11-12	A3100100	Length of Course: Year	Credit: 1	5.0
Prerequisite(s): Algebra II; see Accelerated Program recommendations			Fee Required: No	
Description: This college-level course prepares students to take the AP Precalculus exam for possible college credit and for college-level work in mathematics. At the end of this course, students should be well prepared to begin work in mathematics at the college level without additional instruction. AP Precalculus is a rigorous course, and it should be noted that AP courses are differentiated from RAP courses in the same way that a RAP and on-level course may be differentiated. Students are expected to adapt and overcome any difficulties.				
0233	AP Calculus AB		(APCALCAB)	MATH
12	A3100101	Length of Course: Year	Credit: 1	5.0
Prerequisite(s): Pre-Calculus or AP Pre-Calculus; see AP recommendations			Fee Required: No	
Description: This college-level course prepares students to take the AP Calculus exam for possible college credit and for college-level work in mathematics. At the end of this course, students should be well prepared to begin work in mathematics at the college level without additional instruction. AP Calculus is a rigorous course, and it should be noted that AP courses are differentiated from RAP courses in the same way that a RAP and on-level course may be differentiated. Students are expected to adapt and overcome any difficulties.				
0246	Applied Mathematics for Tech Professionals		(APMATHTP)	MATH/CTE
11-12	12701410	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Algebra I, Geometry			Fee Required: No	
Description: Project-based applied math course focused on students bound for technical careers. Students will use mathematics to apply to real-world problems and projects. Each unit will explore technical applications in project management, engineering and design, construction and trades, as well as finance and business.				
0242	Financial Mathematics		(FINMATH)	MATH/CTE
11-12	13018000	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Geometry			Fee Required: No	
Description: This course focuses on planning and services for financial and investment planning, banking, insurance, and business financial management. Financial Mathematics is a course about personal money management and entrepreneurship. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. Financial Mathematics will integrate career and postsecondary education planning into financial decision-making and small business.				
Math Models with Applications				MATH
9-12	03102400	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Placement by ARD			Fee Required: No	
Description: These courses are designed to develop critical thinking, problem-solving, and basic computational skills needed for everyday life at home, on the job, and as community members.				

SCIENCE

0311	Biology		(BIO)	SCIENCE
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9	03010200	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): None **Fee Required:** No

Description: In Biology, students conduct laboratory and field investigations throughout the year. Students will study the following topics: Structures and functions of cells and viruses; growth and development of organisms; organization of life; macromolecules and genetics; biological change; taxonomy; metabolism and energy transfers in living organisms; plant and animal systems; and homeostasis.

0312	Biology (RAP)		(BIO)	SCIENCE
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9	03010200	Length of Course: Year	Credit: 1	5.0
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Prerequisite(s): See Accelerated Program recommendations **Fee Required:** No

Description: Rockdale Accelerated Program (RAP) Biology is an advanced course recommended for students with a strong interest in science and good study skills. In RAP Biology, students conduct laboratory and field investigations throughout the year. Many of the concepts are the same as those in Biology, except the presentation is more accelerated and in more detail.

0321	Integrated Physics and Chemistry (IPC)		(IPC)	SCIENCE
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10-11	03060201	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): Biology **Fee Required:** No

Description: In this course an introduction to the fundamental concepts of physics and chemistry with an emphasis on the application of these concepts and principles to everyday life is provided. The following scientific concepts will be covered: motion, waves, energy, transformations, properties, and composition of matter, changes in matter, solution chemistry, and chemical reactions. About forty percent of the time is spent in the laboratory. This cannot be taken as a final/fourth year of science.

0332	Chemistry		(CHEM)	SCIENCE
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10-12	03040000	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): Biology or IPC **Fee Required:** No

Description: This course is a study of chemistry's laws, theories, and fundamental concepts. Qualitative analysis is used as a means of developing skills and applying principles. Approximately forty percent of the time is spent in the laboratory. Concurrent or previous enrollment in Algebra 2 is recommended.

0333	Chemistry (RAP)		(CHEM)	SCIENCE
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10-12	03040000	Length of Course: Year	Credit: 1	5.0
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Prerequisite(s): Biology; Geometry (or concurrent); see Accelerated Program recs. **Fee Required:** No

Description: This course is designed to prepare college-bound students for upper-level science courses. This course will be a rigorous, in-depth study of the fundamental concepts of chemistry, including atomic structure, properties of substances, and both qualitative and quantitative analysis. This class does include extensive use of mathematics.

0337	Physics (RAP)		(PHYSICS)	SCIENCE
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11-12	03050000	Length of Course: Year	Credit: 1	5.0
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Prerequisite(s): Chemistry; Algebra II (or concurrent); see Accelerated Program recs. **Fee Required:** No

Description: This course is a study that includes in-depth studies of the basic theories and concepts of physical science, including mechanics, scalars and vectors, kinematics, waves, optics, heat transfers, quantum and nuclear physics, electricity, and magnetism. Advanced math is required with a completion of Algebra II or concurrent enrollment. Students will be expected to participate in special projects that may require out-of-class time.

Physics			(PHYSICS)	SCIENCE
11-12	03050000	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Chemistry; Algebra II (or concurrent).			Fee Required: No	
Description: This course is a study that includes basic theories and concepts of physical science, including mechanics, scalars and vectors, kinematics, waves, optics, heat transfers, quantum and nuclear physics, electricity, and magnetism. Advanced math is required with a completion of Algebra II or concurrent enrollment.				
0310 AP Biology			(APBIO)	SCIENCE
12	A3010200	Length of Course: Year	Credit: 1	5.0
Prerequisite(s): Biology, Chemistry, IPC or Physics; see AP recommendations			Fee Required: No	
Description: This course is designed to be the equivalent of an introductory college-level course in biology. Biology AP is the study of general biological principles as well as the more specialized biological sciences. Cytology, biochemistry, developmental biology, genetics, ecology, taxonomy, and various aspects of adaptation are integrated with this course. Relationships and applications of concepts within and among the various sciences are explored. The student acquires data by using his senses and instrumentation. Student investigations emphasize accurate observations, collection of data, data analysis, and the safe manipulation of laboratory apparatus and materials in the lab. Upon completion of the course, the student will take the Advanced Placement exam in Biology.				
0338 Anatomy and Physiology			(ANATPHYS)	SCIENCE/CTE
11-12	13020600	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Biology			Fee Required: No	
Description: The leg bone's connected to the knee bone, and the knee bone's connected to the thigh bone.....Anatomy and Physiology of Human Systems is a laboratory-oriented course in which students investigate the structures and functions of the components of the human body. The course presents an investigation of the specialization of cells, how cells function cooperatively as tissue and organs, and the interrelationships of systems that result in a living organism. The course allows students to investigate anatomical structures and regulating mechanisms that influence systems' functions. These concepts may be reinforced through application in a medical facility or simulation lab. The course is designed to build a knowledge base for students seeking a medically related career.				
0322 Environmental Systems			(ENVIRSYS)	SCIENCE
11-12	03020000	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Two years of science, credit/or concurrent enrollment in a third science, two years of math, credit/or concurrent enrollment in a third math			Fee Required: No	
Description: In this course, 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 through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, changes in environments.and human activities that affect the environment.				
0340 Advanced Animal Science			(ADVANSCI)	SCIENCE/CTE
11-12	13000700	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Livestock Production			Fee Required: No	
Description: Students with an interest in agriculture seeking the fourth science credit will benefit from this course. The course examines the interrelatedness of livestock production's human, scientific, and technological dimensions. Students will apply their knowledge through safe participation in labs in the areas of classes and grades of livestock, animal genetics and heredity, animal anatomy and physiology, animal nutrition for ruminants and non-ruminants, and animal diseases and parasites.				
Applied Science 1, 2, 3, 4				SCIENCE
9-12		Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Placement by ARD			Fee Required: No	
Description: This course studies science-based concepts related specifically to independent daily living and employment. Activities are "hands-on" experiences with an emphasis on cooperative learning strategies.				

SOCIAL STUDIES

0422	World Geography		(W GEO)	SOCSTUD
9	03320100	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): None			Fee Required: No	
Description: This course will emphasize the five themes of geography. All areas of the world will be studied. The studies will include both the cultural and physical aspects of geography.				
0424	World Geography (RAP)		(W GEO)	SOCSTUD
9	03320100	Length of Course: Year	Credit: 1	5.0
Prerequisite(s): See Accelerated Program recommendations			Fee Required: No	
Description: This course will include all the required knowledge and skills (TEKS) of on-level World Geography. It will differ in the rigor of content and learning. Students will be expected to do independent research using primary sources. Projects requiring higher-level thinking skills will be regularly assigned.				
0421	World History		(W HIST)	SOCSTUD
10	03340400	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): World Geography			Fee Required: No	
Description: World History Studies is a survey of the history of humankind. The major emphasis is on the study of significant people, events, and issues from 8000 BC to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in Western civilization as well as in civilizations in other parts of the world.				
0420	World History (RAP)		(W HIST)	SOCSTUD
10	03340400	Length of Course: Year	Credit: 1	5.0
Prerequisite(s): World Geography; see Accelerated Program recommendations			Fee Required: No	
Description: This course will include all the required knowledge and skills (TEKS) of on-level World History. It will differ in the level of rigor and learning. Students will be expected to do independent research using primary sources. Projects requiring higher-level thinking skills will be regularly assigned.				
0411	U.S. History Studies since Reconstruction		(US HIST)	SOCSTUD
11	03340100	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): World History			Fee Required: No	
Description: This course is the second part of a two-year U.S. History program, which begins in the eighth grade. Content includes industrial, social, and political studies as well as the role of the United States as a world power in the twentieth century. It emphasizes the role of the United States as a superpower from the second half of the twentieth century through the present.				
0413	U.S. History (Dual Credit) FALL		(US HIST)	SOCSTUD
11	03340100	Length of Course: Semester	Credit: 1	5.0
Prerequisite(s): College admission			Fee Required: No	
Description: A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. Themes that may be addressed include American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and the creation of the federal government.				
0414	U.S. History (Dual Credit) SPRING		(US HIST)	SOCSTUD
11	03340100	Length of Course: Semester	Credit: 1	5.0
Prerequisite(s): College admission			Fee Required: No	
Description: A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. This course examines industrialization, immigration, world wars, the Great Depression, the Cold War, and post-Cold War eras. Themes that may be addressed include American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.				

0442	Government		(GOVT)	SOCSTUD
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12	03330100	Length of Course: Semester	Credit: .5	4.0
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Prerequisite(s): Senior classification **Fee Required:** No

Description: This course includes a detailed study of the organization, function, and administration of the three branches of American government. There will be an emphasis on the Constitution and its history.

0443	Government (Dual Credit)		(GOVT)	SOCSTUD
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12	03330100	Length of Course: Semester	Credit: .5	5.0
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Prerequisite(s): College admission **Fee Required:** No

Description: This course studies the origin and development of the U.S. Constitution, the structure and powers of the national government, including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties, and civil rights.

0445	Economics with an emphasis on the Free Enterprise System		(ECO-FE)	SOCSTUD
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12	03330300	Length of Course: Semester	Credit: .5	4.0
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Prerequisite(s): Senior classification **Fee Required:** No

Description: This course will emphasize the study of the free enterprise system, the role of government in the American economic system, and global economics' impact.

0446	Economics (Dual Credit)		(ECO-FE)	SOCSTUD
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12	03330300	Length of Course: Semester	Credit: .5	5.0
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Prerequisite(s): College admission **Fee Required:** No

Description: This course is an analysis of the economy as a whole, including the measurement and determination of aggregate demand and aggregate supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, fiscal policy, and monetary policy.

	Activities of Daily Living 1, 2, 3, 4			SOCSTUD
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9-12		Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): Placement by ARD **Fee Required:** No

Description: These courses will provide basic information for maintaining a healthy lifestyle with opportunities for decision-making on a variety of health and welfare issues.

	Activities of Daily Living (F) 1, 2, 3, 4, 5, 6			SOCSTUD
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9-12		Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): Placement by ARD **Fee Required:** No

Description: These courses are designed to provide persons with moderate to severe impairments an opportunity to complete domestic activities in their personal living environments in order to encourage greater domestic independence.

	Community Skills (F) 1, 2, 3, 4, 5, 6			SOCSTUD
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9-12		Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): Placement by ARD **Fee Required:** No

Description: These courses are designed to provide persons with moderate to severe impairments an opportunity to complete community transactions that meet daily living needs in order to encourage greater independence in providing for personal needs and increase integration into the community.

	Personal/Social Skills (F) 1, 2, 3, 4, 5, 6			SOCSTUD
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9-12		Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): Placement by ARD **Fee Required:** No

Description: These courses are designed to provide persons with moderate to severe impairments an opportunity to engage in a typical pattern of interactions in order to develop and maintain supportive relationships effectively.

FOREIGN LANGUAGE

0710	Spanish 1		(SPAN 1)	LOTE
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9-11	03440100	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): None **Fee Required:** No

Description: This course introduces the basic language skills of listening, speaking, reading, and writing comprehension. Students will learn the vocabulary and grammatical structures necessary to communicate in everyday situations.

0720	Spanish 2		(SPAN 2)	LOTE
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10-12	03440200	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): Spanish 1 **Fee Required:** No

Description: This course reviews the basic structures and vocabulary learned in Spanish 1 and continues with additional and more advanced structures and vocabulary to increase language proficiency.

0730	Spanish 3 (RAP)		(SPAN 3)	LOTE
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11-12	03440300	Length of Course: Year	Credit: 1	5.0
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Prerequisite(s): Spanish 2; see Accelerated Program recommendations **Fee Required:** No

Description: Students will continue the emphasis on communication established in levels 1 and 2. Students shall continue to develop the ability to communicate directly and effectively in Spanish. Students will learn more vocabulary and advanced grammatical structures to increase language proficiency.

0740	Spanish 4 (AP)		(SPAN 4)	LOTE
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12	03440400/A3440100	Length of Course: Year	Credit: 1	5.0
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Prerequisite(s): Spanish 3; see AP recommendations **Fee Required:** No

Description: Students will emphasize the study of Spanish for active communication through oral, listening, reading comprehension, grammar, and composition. The advanced Spanish course will be equivalent to a second or third-year college course in advanced Spanish composition and conversation. Upon completion of this course, the student will take the Advanced Placement test in Spanish Language.

0711,2	Spanish 1, 2 for Native Speakers		(SSSPAN1/2)	LOTE
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9	03440110/03110220	Length of Course: Year	Credit: 2	4.0
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Prerequisite(s): Oral and written fluency assessments **Fee Required:** No

Description: Students will emphasize the study of Spanish for Heritage Spanish speakers' active communication through oral, listening, reading comprehension, grammar, and composition. These advanced Spanish courses will be equivalent to a second or third-year college course in advanced Spanish composition and conversation. Upon completion of this course, the student will take the Advanced Placement test in Spanish Language.

0713,4	Spanish 3, 4 for Native Speakers (RAP)		(SSSPAN 3/4)	LOTE
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10	03440330/03440440	Length of Course: Year	Credit: 2	5.0
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Prerequisite(s): Oral and written fluency assessments **Fee Required:** No

Description: Students will emphasize the study of Spanish for Heritage Spanish speakers' active communication through oral, listening, reading comprehension, grammar, and composition. These advanced Spanish courses will be equivalent to a second or third-year college course in advanced Spanish composition and conversation. Upon completion of this course, the student will take the Advanced Placement test in Spanish Language.

FINE ARTS

66##	Band 1, 2, 3, 4		(MUS#BAND)	FINE ARTS
9-12	03150100,200,300,400	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): Audition/Director's Recommendation **Fee Required:** No

Description: Students will study level-appropriate band literature and continue the development of wind and percussion practice, rehearsal, and performance techniques. Attendance at rehearsals and performances outside of school hours is required. In the fall, all students enrolled in this course participate in the marching band. In the spring, all students participate in concert band. The marching and concert band course syllabi will outline schedules and other pertinent information about the course.

66##	Jazz Band 1, 2, 3, 4		(MUS#JZBN)	FINE ARTS
9-12	03151300,1400,1500,1600	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): Audition/Director's Recommendation **Fee Required:** No

Description: The study and performance of music from jazz areas, including rhythm and blues, swing, rock, and Latin. A musical background is encouraged but not required. The course is open to all students with the director's recommendation. The jazz band performs at community events, local concerts, and music festivals.

0613	Art I		(ART 1)	FINE ARTS
9-12	03500100	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): None **Fee Required:** No

Description: Art I is an introductory (two-semester) level course. Students will create original works of art, both 2 dimensional and 3 dimensional, using a variety of materials and techniques while studying the Elements and Principles of Art. Introduction of Art History with each new medium.

0614	Art II: Drawing		(ART2DRAW)	FINE ARTS
9-12	03500500	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): Art I **Fee Required:** \$10

Description: Art II drawing will be an in-depth study of the techniques learned in Art I. Emphasis will be placed on observational and imaginative drawing. More complex compositions and advancement of rendering skills with various mediums will be expected. Students will participate in class critiques of their work to increase their ability to express themselves verbally as well as visually. Art History will continue to be part of the curriculum. Students will be responsible for actively advancing their technical skills and creative voice. Students will be expected to participate in various Art competitions.

0615	Art III: Drawing		(ART3DRAW)	FINE ARTS
10-12	03501300	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): Art II **Fee Required:** \$10

Description: Students who elect to take Art II Drawing should have a firm foundation in materials, techniques, and composition. They will be expected to be more self-directed in their project solutions. Several projects assigned will be expanded to a series of three solutions. All assignments are two-dimensional designs. Presentation will be required to the class and instructor. Students will be required to enter all competitions available to the Art department, including Central Texas, VASE, and Scholastic Young Artists. A portfolio review of work completed in Art II and teacher conference is required.

0625	Art IV: Drawing		(ART4DRAW)	FINE ARTS
11-12	03502300	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): Art III **Fee Required:** \$10

Description: This course is for students who want to continue in the Art department but do not want to pursue Advanced Placement Studio Art. The focus of this class will be to work as independently as possible with instructor input. The student will present a focused series of 5 drawings exploring 1 theme in various mediums. These series will be due at the end of the second six weeks. Every other six weeks a series of 5 drawings will be due. Students will be required to enter all competitions available to the Art department, including Central Texas, VASE, and Scholastic Young Artists. Instructor signature required.

0616	Art IV: AP Studio		(AP2DDP)	FINE ARTS
11-12	A3500400	Length of Course: Year	Credit: 1	5.0
Prerequisite(s): Art III; see AP recommendations			Fee Required: \$15	
Description: The experiences given and skills developed in the first three levels of art courses prepare students for in-depth study of special problems based on their previous credits. They will produce a body of artwork in their chosen area of art (drawing, painting, and printmaking or sculpture) and develop evaluative criteria for selecting artworks to include in a portfolio. Students will be required to enter all competitions available to the Art department, including Central Texas, VASE, and Scholastic Young Artists. A portfolio review of previous work completed in the art department and teacher conference is required. There is a \$15.00 supplies fee due by the end of October.				
0627	AP Art History		(APHISART)	FINE ARTS
11-12	A3500100	Length of Course: Year	Credit: 1	5.0
Prerequisite(s): Art I and English II recommended			Fee Required: No	
Description: Students study historical aspects of major artworks and artists and learn the importance of specific art works to particular societies. They explore works from selected periods and artists as major sources of motivation and enrichment. They also view visual materials, museums, and studios to gain knowledge and appreciation of art and the importance of art careers in society.				
0620,3,2	Theatre Arts 1, 2, 3		(APHISART)	FINE ARTS
09-12	03250100, 200, 300	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): None			Fee Required: No	
Description: Students will study basic theater topics such as stage and acting terminology, basic stage movement, pantomime, improvisation, evaluating theater productions, theater etiquette, and basic performance skills, including character development and script structure.				
0621	Floral Design		(FLORAL)	FINE ARTS/CTE
10-12	13001800	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Principles of AFNR recommended			Fee Required: No0	
Description: Stop and smell the roses! Students who successfully complete this class will construct cost-effective geometric designs, corsages, and homecoming mums. Special occasion designs and business management practices are an integral part of the course, preparing students for a career in the floral industry. Students will be able to keep their designs at the end of the unit. The course is approximately 30% lab-based and counts as a fine arts credit.				
0626	Advanced Floral Design		(ADVFLDES)	FINE ARTS/CTE
11-12	N1300270	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Floral Design, Enrollment Review in Committee*			Fee Required: No	
Description: Want to build upon the knowledge and skills you learned in Floral Design? In this course, you will be introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion designs.				

*NOTE: In indicated Career and Technical Education (CTE) courses, Enrollment Review in Committee (ERIC) processes may be conducted when a course requires limited enrollment considerations due to facility space, safety and skills competence, and/or community partnership agreements.

PHYSICAL EDUCATION/HEALTH

All students must take 1 year of P.E. unless a student meets one of the alternatives listed below to fulfill this requirement. The permanent record of the student will include alternative courses taken.

- One semester of Physical Education will be awarded for the fall semester of marching band. (i.e., 9th and 10th grade fall semester of Band awards 2 semesters of P.E.)
- Credit may be given in athletics, P.E., or Drill Team to meet state and local requirements for P.E., but not more than one per semester.
- Semesters of Physical Education will be granted credit for participation in varsity and junior varsity sports when such participation is limited to after-school workouts:
 - 2 semesters of tennis for 1 credit of P.E.
 - 2 semesters of golf for 1 credit of P.E.
 - 2 semesters of cross-country or track or a combination for 1 credit of P.E.
 - 2 semesters of powerlifting for 1 credit of P.E.
- 1 semester of P.E. will be granted for participation in JV or Varsity Cheerleaders during the fall semester.
- 1 semester of P.E. will be awarded for each semester a student is enrolled in an Athletic training/Trainer Aide course
- Students may be granted up to two credits for off-campus physical education for appropriate private or commercially sponsored physical activity programs conducted on or off campus. This is to help assist students who are making a serious effort to develop high-level capabilities and allow those students to be involved in a program that provides training exceeding that offered in the school district. The student taking this option may NOT be enrolled in another physical education class or athletics while participating in this activity. Private or commercially sponsored physical activities include those certified by the superintendent to be of high quality and well supervised by appropriately trained instructors. Student participation of at least five hours per week is required. Students certified to participate at this level may not be dismissed from any part of the regular school day. A student interested in this option should contact his/her counselor for application and guidelines concerning off-campus physical education. Applications must be submitted by July 1 for the fall semester and December 1 for the spring semester.
- Students may earn no more than 3 credits in physical education toward state graduation requirements and may only be awarded 1 credit of physical education per school year. Students taking Athletics may earn 1 credit per year for four years of state graduation credits.

89##	Physical Education	(PEFOUND)	PE
9-12	PES00052	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): None

Fee Required: No

Description: The physical education program is designed to develop the student mentally as well as physically. The program consists of a fitness test, a written test on each sport presented, and a skills test. The program may include the following activities: flag football, basketball, volleyball, tennis, table tennis, soccer, track and field, gymnastics, softball, scooter hockey, etc.

89##	Athletics (Boys or Girls)	(SUBATH1-4)	PE
9-12	PES00001-4	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): Athletic Director approval & physical

Fee Required: No

Description: Students must participate in a sport to be enrolled in athletics. Students participating in a team sport MUST be enrolled in athletics (baseball, football, soccer, softball, or volleyball). Participants prepare to compete in scheduled UIL competitions. During the off-season, students participate in weight training, running, agility, and technique days. Team sizes are limited, and coaches will make player selections. Other sports, including cross country, track, golf, and powerlifting, may choose after-school participation only.

0995	Athletic Training		(TRNRAIDE)	PE
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9-12	85000300	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): Sports Medicine I **Fee Required:** No

Description: Students will receive extensive training in the areas of prevention, care, and rehabilitation of sports injuries. This training will then be used when covering practices, scrimmages, and competitions. Students will assist the coach as needed in areas such as care and management of equipment, statistics, etc. Students will be assigned to work various sports throughout the year. This will require time after school for workouts and competitions. Once total credits allowed have been earned, additional credits do not count toward graduation.

0915	Sports Medicine I			PE
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9-11	N1150040	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): None **Fee Required:** No

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

	Personal Health and Hygiene (F) * 1, 2, 3, 4, 5, 6			HEALTH
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9-12	03810100	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): Placement by ARD **Fee Required:** No

Description: This course is designed to provide persons with moderate to severe impairments an opportunity to participate in personal care, health, and safety routines in order to present an appropriate personal appearance and acceptable level of health, fitness, and safety.

8915	Lifetime Fitness 1			PE
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9-12	PES00054	Length of Course: Year	Credit: .5	4.0
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Prerequisite(s): None **Fee Required:** No

Description: The basic purpose of this course is to motivate students to achieve lifetime personal fitness with an emphasis on the health-related components of physical fitness. The concept of wellness, or striving to reach optimal levels of health, is the cornerstone of this course and is exemplified by one of the course objectives: students designing their own personal fitness program as a way to develop the skills necessary to become fit and achieve some degree of fitness within the course. (Note: This course requires physical exertion equal to that of the regular physical education class. Students who have any doubt as to their physical condition should consult a physician before attempting this course.)

OTHER ELECTIVES

05 033	Freshman Focus		(GEMPLS)	ELEC
9	N1270153	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): None			Fee Required: No	
Description: The Freshman Focus course provides academic support during the school day. Students learn organizational and study skills, work on critical thinking and asking probing questions, get academic help from peers and teachers, and participate in enrichment and motivational activities that make all kinds of post-secondary dreams, including college, career, and the military seem attainable. Freshman Focus helps students adjust to the high school curriculum and gives them the support they need to succeed. The structure of the course focuses on writing, questioning, organization, and reading and includes specific strategies for note-taking, test preparation, and research. The program's main components are academic support, long-term planning, and personal growth. <u>This class will count for Professional Communication (speech) credit and is required of all freshmen.</u>				
0008	Freshman Focus (Dual Credit)		(GEMPLS)	ELEC
9	N1270153	Length of Course: Year	Credit: 1	5.0
Prerequisite(s): Academic requirements for Dual Credit prior to Spring semester			Fee Required: No	
Description: This Dual Credit Freshman Focus course focuses on the Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Before the Spring semester, students must meet the academic requirements for Dual Credit. <u>This class will also count for Professional Communication (speech) credit.</u>				
0160/1	Peer Assisted Leadership (PALs)		(PAAL1, 2)	ELEC
11-12	N1290005	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Application and interview process			Fee Required: No	
Description: The PALs course is a peer-helping program in which selected high school students will be trained to work as peer facilitators with other students in elementary or intermediate schools. Participants will be trained in a variety of helping skills.				
0199	Texas College Bridge - English		(CPELA)	ELEC
11-12	CP110100	Length of Course: Semester	Credit: 1	4.0
Prerequisite(s): Junior or Senior; has not met "College and Career Ready" standard			Fee Required: No	
Description: Students will take this individualized online college prep course with a teacher facilitator. The pre-assessment tailors the course content to each student, and then the student can work at their own pace to complete the course. When it is successfully completed, the student will have earned both college credit and the benchmark for College and Career Readiness.				
0299	Texas College Bridge - Math		(CPMC)	ELEC
11-12	CP111200	Length of Course: Semester	Credit: 1	4.0
Prerequisite(s): Junior or Senior; has not met "College and Career Ready" standard			Fee Required: No	
Description: Students will take this individualized online college prep course with a teacher facilitator. The pre-assessment tailors the course content to each student, and then the student can work at their own pace to complete the course. When it is successfully completed, the student will have earned both college credit and the benchmark for College and Career Readiness.				
0997	Office/Library Aide		(OFCAIDE)	ELEC
11-12	85000103/4	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Student has met the "College and Career Ready" standard			Fee Required: No	
Description: Students will aid in the office or the library. Additionally, students must have a 2.0 grade point average or higher, be on track to graduate with their class, and have had no discipline referrals for the previous school year. Students will help with clerical duties, including but not limited to copy-making, filing, campus errands, stocking office supplies, and organizing supplies. Students will be graded on their employability skills by their supervising teacher using an established rubric every six weeks.				
1201	College and Career Readiness - Senior Off-Campus		()	ELEC
12		Length of Course: Semester	Credit: 0	4.0
Prerequisite(s): Senior; met "College and Career Ready" standard			Fee Required: No	
Description: Seniors who have met the CCMR standard are eligible for an additional off-campus period..				

SECTION V: CTE Course Offerings and Descriptions

Every Career and Technical Education class falls into one of 16 “career clusters.” A career cluster is a group of jobs and industries that are related by skills or products. Here at Rockdale, we offer students the opportunity to take a coherent sequence of courses in 10 of the 16 career clusters. After looking at the programs of study, read the course descriptions and make a plan for your future!

AGRICULTURE, FOOD & NATURAL RESOURCES

7000	Principles of Agriculture, Food, and Natural Resources	(PRINAFNR)	ELEC
9-10	1300200	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): None

Fee Required: No

Description: Ever wonder where the shoes on your feet come from? How about the food on your table? Take this class to learn about the diversity of agriculture in our world. The class will help students expand their leadership and communication skills through the lens of agriculture in our world. The class will focus on the elements of the FFA, a basic study of soils, plants, and various livestock species. Come learn why agriculture is more than just farming.

7005	Agricultural Mechanics and Metal Technologies	(AGMECHM)	ELEC
10-12	1302200	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): Principles of AFNR or Principles of Skilled Trades (*recommended*)

Fee Required: No

Description: Do you like working in a hands-on environment? This class may be the right choice for you. Students will actively learn how to properly use tools to work with a variety of materials including concrete, electricity, plumbing and basic carpentry. Proper safety is also an integral part in learning how to weld using Oxy-Fuel, Arc, and MIG techniques. You can be sure this class will strike an interest in you and lay a foundation of useful skills for the future.

7023	Agricultural Equipment Design and Fabrication	(AGEQDF)	ELEC
11-12	1302350	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): Agricultural Mechanics and Metal Technologies (*or equivalent*)

Fee Required: No

Description: Does your future include building projects in your own backyard shop, but you might not make a career out of it? This course is designed to further develop the knowledge and skills related to the design and fabrication of agricultural equipment (ag mechanics projects), but is not seeking industry-level certifications. This course is 75% lab-based and requires the fabrication and exhibition of a project at an agriculture mechanics show in the spring.

7006	Agricultural Structures Design and Fabrication	(AGSDF)	ELEC
12	1302300	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): Agricultural Mechanics and Metal Technologies (*or equivalent*)

Fee Required: No

Description: If you enjoy looking at blueprints, and working with your hands, this is the course for you! This course is designed to further develop the knowledge and skills related to the design and fabrication of agricultural structures, but are not seeking industry-level certifications. Topics include developing blueprints, site analysis for agricultural buildings, use of GPS and GIS, basic welding and oxy-fuel cutting techniques. This course is 75% lab-based.

7103	Small Animal Management	(SMANIMGT)	ELEC
10-12	13000400	Length of Course: Semester	Credit: .5 4.0

Prerequisite(s): Principles of AFNR (*recommended*)

Fee Required: No

Description: Small animals are special creatures, whether you are a cat person, a dog person, a reptile lover or you prefer pocket pets, all small domesticated animals are covered in this course.. Students will attain knowledge and skills related to animal identification, animal behavior, anatomy, career opportunities, and the care and management of animals ranging from small mammals such as dogs and cats to amphibians and reptiles.

7107	Equine Science		(EQUINSCI)	ELEC
10-12	13000500	Length of Course: Semester	Credit: .5	4.0
Prerequisite(s): Principles of AFNR (<i>recommended</i>)			Fee Required: No	
Description: Saddle up! Hang on tight and develop knowledge about the importance of the equine industry in Texas and the U.S. Students will study selection, nutrition, reproduction, handling, and management to prepare for a career in the horse industry. Horseplay allowed!				
7101	Livestock Production		(LIVEPROD)	ELEC
11-12	13000300	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Small Animal Management, Equine Science (<i>required</i>)			Fee Required: No	
Description: Go hog wild! Enroll in Livestock Production and learn about the impact livestock production has on the U.S. Students will have the opportunity to learn about careers in the livestock industry, livestock management, nutrition, genetics, reproduction, and common diseases and pests of cattle, swine, lambs, goats and poultry.				
0340	Advanced Animal Science		(ADVANSCI)	ELEC/SCIENCE
11-12	13000700	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Livestock Production (<i>required</i>)			Fee Required: No	
Description: Students with an interest in agriculture seeking the fourth science credit will benefit from this course. The course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Students will apply their knowledge through safe participation in labs in the areas of classes and grades of livestock, animal genetics and heredity, animal anatomy and physiology, animal nutrition for ruminants and non-ruminants, and animal diseases and parasites.				
0621	Floral Design		(FLORAL)	ELEC/FINE ARTS
10-12	13001800	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Principles of AFNR (<i>recommended</i>)				
Description: Stop and smell the roses! Students who successfully complete this class will construct cost effective geometric designs, corsages and homecoming mums. Special occasion designs and business management practices are an integral part of the course which will prepare students for a career in the floral industry. Students will be able to keep their designs at the end of the unit. The course is approximately 30% lab based and counts as a fine arts credit.				
0626	Advanced Floral Design		(ADVFLDES)	ELEC
11-12	N1300270	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Floral Design (<i>required</i>), Level 1 TSFA Floral Certification (<i>required</i>), Enrollment Review in Committee*				
Description: Want to build upon the knowledge and skills you learned in Floral Design? In this course, you will be introduced to more advanced floral design concepts, with an emphasis in specialty designs and specific occasion designs.				
7022	Practicum in Agriculture, Food, and Natural Resources		(PRACAFNR1)	ELEC
11-12	13002500/5	Length of Course: Year	Credit: 2-3	4.0
Prerequisite(s): Coherent sequence of AFNR courses, Enrollment Review in Committee*			Fee Required: No	
Description: This cooperative education program offers technical instruction, on the job training, and work experience. Students are preparing to enter employment in occupations requiring knowledge and skills in one or more of these agricultural subjects: animal science, soil science, agricultural mechanization, farm and ranch management, agricultural leadership, and agricultural resource development. Students may be in paid or unpaid work experiences for this course.				
	Entrepreneurship		(ENTREP)	ELEC
9-12	13011101	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): None			Fee Required: No	
Description: 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.				

Greenhouse Operation and Production		(GREOP)	ELEC
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10-12	13002050	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): None

Fee Required: No

Description: Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

ARTS, AUDIO-VISUAL TECHNOLOGY & COMMUNICATIONS

7701	Principles of Arts, Audio-Visual Technology, and Communications	(PRINAAVTC)	ELEC
9-10	13008200	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): None

Fee Required: No

Description: Interested in video, advertising, or design? This course is designed to introduce technology used in the workplace. 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. This course will offer a hands-on approach to real world problems by creating multimedia projects for real-life situations. Students will gain experience using audio and video equipment as well as animation and graphic design software.

0861	Graphic Design and Illustration I	(GRAPHDI1)	ELEC
10-12	13008800	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): Principles of AAVTC

Fee Required: No

Description: Magazines, Digital Photography, Advertising, The Internet – Graphic Design is the foundation for media outlets worldwide. Graphic Design and Illustration will teach students the fundamental software tools and design elements used in this industry. From digital enhancements to vector graphics, prepare yourself to create a wide variety of design projects that will lead to a solid foundation in the world of graphics and advertising design.

7402	Graphic Design and Illustration II	(GRAPHDI2)	ELEC
11-12	13008900	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): Graphic Design I

Fee Required: No

Description: Are you ready to take your design skills to the next level? With Graphic Design II you will take your knowledge of Typography and Design Principles to a new level. Pushing through the boundary of print work into graphic arts and web based advertising. Students will have the opportunity to take the Adobe Certified Associates test (ACA) in Photoshop and Illustrator.

7335	Practicum in Graphic Design	(PRACGRD1)	ELEC
12	13009000/5	Length of Course: Year	Credit: 2-3 4.0

Prerequisite(s): Coherent sequence in Graphic Design courses, Enrollment Review Committee*

Fee Required: No

Description: This cooperative education program offers technical instruction, on the job training, and work experience. Students are preparing to enter employment in occupations requiring knowledge and skills in graphic design. Students may be in paid or unpaid work experiences for this course.

Digital Media		(DIMEDIA)	ELEC
9-12	13027800	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): None

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

Commercial Photography		(CPHOTO1)	ELEC
9-12	13009100	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): None

Fee Required: No

Description: In addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

Commercial Photography		(CPHOTO2)	ELEC
10-12	13009200	Length of Course: Year	Credit: 1 4.0
Prerequisite(s): Commercial Photography I			Fee Required: No
Description: 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 advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.			

Commercial Photography Practicum			ELEC
11-12	13009250	Length of Course: Year	Credits: 2 4.0
Prerequisite(s): None			Fee Required: No
Description: 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 advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.			

BUSINESS, MARKETING & FINANCE

0841	Business Information Management I	(BUSIM1)	ELEC
9-12	13011400	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): None

Fee Required: No

Description: Have you dreamed of becoming an entrepreneur or a tycoon in the business industry? As a student in Business Information Management you will go beyond the basics and get a head start on mastering the most popular business software suite--Microsoft Office. Learn Word, Excel, PowerPoint and Access and have the opportunity to earn the MOS Certification. Learn important technology and business skills while utilizing your creativity. Field trips to area businesses will be planned to discover and emphasize how "business" can be found in every career. This course is highly recommended for preparing students for career and college entry. Skills learned in this course will prepare students for secondary education as well as enhancing their ability to make a successful transition in the workforce.

0842	Business Information Management II	(BUSIM2)	ELEC
10-12	13011500	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): Business Information Management I

Fee Required: No

Description: As a student in the second year of Business Information Management you will strengthen your individual performance in workplace, society, and business management skills. Oral & written communication, teamwork, public relations, and leadership skills are emphasized through student's implementation of their own business projects. Students will have further opportunities to receive their MOS Certifications. Field trips to area businesses help discover and emphasize how "business" can be found in every career. This course will allow students to apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using graphs and charts, and make an electronic presentation using appropriate multimedia software. Students gain personal and interpersonal skills that will strengthen their opportunity to make a successful transition to the workforce or postsecondary education.

	Business Management	(BUSMGT)	ELEC
10-12	13012100	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): Business Management

Fee Required: No

Description: Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

	Practicum of Business Management	(PRACBM)	ELEC
10-12	13012200	Length of Course: Year	Credit: 1 4.0

Prerequisite(s): Practicum of Business Management

Fee Required: No

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

EDUCATION & TRAINING

7207	Principles of Education and Training		(PRINEDTR)	ELEC
9-10	13014200	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): None			Fee Required: No	
Description: "A teacher affects eternity; he can never tell where his influence stops" --Henry Adams. If you want to influence the future, teaching might be for you! This course is designed to introduce learners to the various careers available within the education and training career clusters. Students use self-knowledge, educational, and career information to analyze various careers within the education field.				

	Child Development		(CHILDDEV)	ELEC
10-12	13024700	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Recommended- Principles of Education and Training			Fee Required: No	
Description: Child Development is a technical laboratory course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.				

7201	Instructional Practices		(INPRAC)	ELEC
11-12	13014400	Length of Course: Year (Block)	Credit: 2	4.0
Prerequisite(s): Child Development			Fee Required: No	
Description: If you see a future as a kindergarten teacher, or a math teacher, or a coach, come get some experience first! This course is a field-based internship which provides students background knowledge of effective teaching practices. Students participate in activities at both their home campus and field site elementary school, intermediate, or junior high school. Students are involved in direct instruction as well as observations.				

7330	Practicum in Education and Training		(PRACEDT1)	ELEC
12	13014500	Length of Course: Year (Block)	Credit: 2-3	4.0
Prerequisite(s): Instructional Practices			Fee Required: No	
Description: Students that have chosen teaching as a career can continue an internship their senior year. Students will participate in activities at both their home campus and field site elementary, intermediate, or middle schools. Students are involved in direct instruction as well as observations.				

HEALTH SCIENCE

0352	Medical Terminology		(MEDTERM)	ELEC
9-11	13020300	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): None			Fee Required: No	
Description: Astigmatism, Bronchiectasis, Conjunctiva, easy as A, B, C....or it might be if you take this class! This course is designed to develop a working knowledge of the language of medicine. Students acquire word building skills by learning prefixes, suffixes, word roots, abbreviations, and acronyms. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the ability to successfully secure employment.				
0917	Principles of Health Science		(PRINHLSC)	ELEC/HEALTH
10-11	13020200	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Biology (may be taken concurrently)			Fee Required: No	
Description: Attention future Nurses, Doctors, and other Medical Professionals: This course includes skills related to the healthcare industry such as taking vital signs, body mechanics, medical terminology and other entry level skills. Course content relates to patient relationships, working environments, ethical and legal responsibilities. Varied health care occupations are explored to aid students in career selection and prepare them for future employment.				
0918	Health Science Theory		(HLTHSCI)	ELEC
11-12	13020400	Length of Course: Year	Credit: 1	4.0
Prerequisite(s): Principles of Health Science, Enrollment Review in Committee*			Fee Required: No	
Description: This course is for students pursuing a career in healthcare. It is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have in class hands-on experiences for continued knowledge and skill development. Students will have the opportunity to investigate and observe a large variety of health care areas rather than a single health care field. Testing, including drug screenings, background checks and additional immunizations may be required by the cooperating health care facility.				
0922	Practicum of Health Science		(PRACHLS1)	ELEC
12	13020500	Length of Course: Year (Block)	Credit: 2	4.0
Prerequisite(s): Health Science Theory, Enrollment Review in Committee*			Fee Required: No	
Description: This course is for students pursuing their Certified Nursing Assistant (CNA). Students will have in class hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation, internships and simulation lab training. Students will have the opportunity to investigate and observe a large variety of health care areas rather than a single health care field. Testing, including drug screenings, background checks and additional immunizations may be required by the cooperating health care facility. Graduates will be qualified to take the certification examination for Certified Nursing Assistant (CNA)				

INFORMATION TECHNOLOGY

0847	Principles of Information Technology	(PRINIT)	ELEC
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9-10	13027200	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): None

Fee Required: No

Description: Are you interested in the fast-paced, changing industry of Information Technology? This course will offer an introductory level of knowledge on a variety of subjects including blogs, forums and messaging. Areas covered would include computer hardware and software, networking, programming, web page design, Microsoft Office applications, file management and operating systems.

7705	Computer Maintenance	(COMMT)	ELEC
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10-12	13027250	Length of Course: Year	Credit: 1	4.0
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Prerequisite(s): Principles of Information Technology

Fee Required: No

Description: Computer safety, security, hardware components, assembly and architecture will be studied in depth. Students will assemble and dismantle a working computer, and will install and study several different operating systems ranging from Windows XP. Windows 7, Windows 10, Linux and Mac OS. DC electronics will be covered as well as principles and techniques of electronic soldering. Students will be prepared to take the internationally recognized CompTIA A+ Certification Exam.

7710	Networking	(NETWRK)	ELEC
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11-12	13027310	Length of Course: Year	Credit: 2	4.0
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Prerequisite(s): Computer Maintenance

Fee Required: No

Description: Ever wonder what keeps us connected to the internet and to our cell phones? In this course students will study the fundamentals of computer networks and internet connectivity. Hands-on applications will be used to learn network server administration, security, imaging cloning and casting, disaster recovery, windows domain environments and web server hosting administration. Students will maintain classroom networks as well as dedicated file servers. Students will be prepared to take the internationally recognized CompTIA Network+ Certification Exam

7715	Practicum of Information Technology	(PRACIT1)	ELEC
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12	13028000	Length of Course: Year	Credit: 2	4.0
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Prerequisite(s): Coherent sequence

Fee Required: No

Description: This cooperative education program offers technical instruction, on the job training, and work experience. Students are preparing to enter employment in occupations requiring knowledge and skills in information technology courses. Students may be in paid or unpaid work experiences for this course.

MANUFACTURING

Electro-Mechanical Engineering Technology “Mechatronics”

Principles of Applied Engineering (Dual Credit)		(PRAPPENG)		ELEC
9-11	13036200	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): None

Fee Required: No

Description: This is a dual credit program with Temple College. Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

AC/DC Electronics (Dual Credit)		(ACDCELEC)		ELEC
10-11	13036800	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): Principles of Applied Engineering.

Fee Required: No

Description: This dual credit program is with Temple College. AC/DC Electronics focuses on the basic electricity principles of alternating current/direct current (AC/DC) circuits. Students 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 will explore career opportunities, employer expectations, and educational needs in the electronics industry.

Digital Electronics (Dual Credit)		(DIGELC)		ELEC
11-12	13032950	Length of Course: Year	Credit: 1	4.0

Prerequisite(s): Algebra I and Geometry

Fee Required: No

Description: This dual credit program is with Temple College. Digital Electronics is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discrete voltages or logic levels. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. Digital electronics is the foundation of modern electronic devices such as cellular phones, digital audio players, laptop computers, digital cameras, and high-definition televisions. The primary focus of Digital Electronics is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Practicum in Manufacturing + Extended Practicum in Manufacturing (Dual Credit)		(EXPRMAN1)		ELEC
11-12	13033005	Length of Course: Year	Credit: 3	4.0

Prerequisite(s): Coherent sequence

Fee Required: No

Description: This dual credit program with Temple College. The Extended Practicum in Manufacturing course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

CAREER DEVELOPMENT

7200	Career Preparation I		(CPGEN1)	ELEC
11-12	12701111	Length of Course: Year	Credit: 3	4.0
Prerequisite(s): None			Fee Required: No	
Description: Career Preparation 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.				

	Career Preparation for Program of Study		(CPPS1)	ELEC
11-12	12701121	Length of Course: Year	Credit: 3	4.0
Prerequisite(s): Coherent sequence			Fee Required: No	
Description: Career Preparation 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.				

*NOTE: In indicated Career and Technical Education (CTE) courses; Enrollment Review in Committee (ERIC) processes may be conducted when a course requires limited enrollment considerations due to facility space, safety and skills competence, and/or community partnership agreements.