

# White Oak

Independent School District



2023-2024

**HIGH SCHOOL  
COURSE DESCRIPTION  
GUIDE**

*White Oak Independent School District does not discriminate on the basis of race, color, national origin, sex or disability in providing education or providing access to benefits of education services, activities, and programs, including vocational programs in accordance with Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Educational Amendments of 1972; Section 504 of the Rehabilitation Act of 1973, as amended; and Title II of the American Disabilities Act.*



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## SCHEDULING AND OTHER INFORMATION

Please read this guide carefully. Contact your counselor for additional information regarding scheduling, course prerequisites, dual credit, testing, and/or graduation requirements. Credit is awarded at the end of each course with a grade of 70 or better.

There are many factors to consider in selecting courses that will meet individual needs for next year. Remember to select courses to fit overall planning which projects beyond the high school years. Interest and ability should determine choices. Experience shows that those who plan an entire high school program early and frequently review the plan will be able to graduate without difficulty.

**It is important to know that this course description guide includes all courses that are offered at White Oak ISD. However, due to enrollment and teacher availability, not every class will be offered every year.**

## REGISTRATION

Registration will take place in the spring of each school year. Although students will receive specific instructions during that time from high school personnel, the responsibility for appropriate graduation and career choices rests with students and parents. The counseling staff is available to assist in making decisions related to course selections.

One of the most critical functions performed by a school is the registration of students. Based upon registration information courses are scheduled, and teachers are employed for the next year; therefore, **it is important that course selections be given serious consideration. After May 1st of each year, changes will be made only to correct scheduling errors or to equalize class enrollments.**

## Class Schedule

White Oak High School's class schedule is organized as a straight 8 period day with classes 45 minutes in length. The day also has a 40 Enrichment period for students to train and practice for participation in UIL Academic Activities. Ninth, Tenth, and Eleventh grade students are required to take eight classes and participate in an Enrichment class. Seniors who have passed all required End Of Course (EOC) exams and have met the CCMR graduation requirements will be required to take 7 classes plus an Enrichment class but may be dismissed early for one flex (privilege) period. **Seniors who have not passed their required EOC's and met College Career and Military Readiness (CCMR) or any other graduation requirements must take 8 classes.** However, all seniors are strongly advised to take advantage of the educational opportunities found at White Oak High School and take 8 classes per semester. Seniors not taking 8 classes each semester must register for a senior Flex period and must leave campus during this release. Flex periods may be taken away at any time for failing a class or not following all of these guidelines. A Flex period is a privilege.



# **FUTURE YOU**

## **House Bill 5 Graduation Programs**

**White Oak ISD expects all students to complete high school as a Foundation Plan graduate at the distinguished level with a minimum of one Endorsement and with a required 28 credits.**

**Foundation Plan Graduate with an Endorsement Diploma requires credits as follows:**

- 4 English Credits
- 4 Math Credits (Algebra I, Geometry, 2 Advanced Maths)
- 4 Science Credits (Biology, Chemistry and/or Physics, and 2 Advanced Science)
- 3 Social Studies Credits (World Geography or World History, U.S. History, Government and Economics)
- 2 Credits of the Same Foreign Language.
- 1 Physical Education Credit (A PE substitution credit may be earned from Marching Band (2 Fall Semesters), Athletics (1/2 during or after school), Cheerleading 1/2, or an activity outside of school that includes a minimum of 15 hours per week of supervised activity with a trained instructor)
- ½ Credit of Speech (Professional Communications *or* Public Speaking for Debate Students --1 credit that counts toward your speech credit and your Debate Program of Study)
- ½ Credit of Health
- 1 Credit of a Fine Art (Art, Band, Choir, Floral Design, Theatre Arts)
- 4 Credits in one Endorsement Area.
- 4 Elective Credits



**Students are strongly encouraged to make the extra effort to graduate on the Distinguished Level of Achievement Plan.**

Students graduating on the Distinguished Level of Achievement plan and in the Top 10% of their graduating class, will be eligible for automatic admission to most Texas public 4 year universities.

**Distinguished Level of Achievement Diploma requires credits as follows:**

- 4 English Credits (English I, English II, English III, English 4)
- 4 Math Credits (Algebra I, Geometry, Algebra II and an Advanced Math)
- 4 Science Credits (Biology, Chemistry and/or Physics, 2 Advanced Sciences)
- 3 Social Studies Credits (World Geography or World History, U.S. History, Government and Economics)
- 2 Credits of the Same Foreign Languages
- 1 Physical Education Credit (A PE substitution credit may be gained earned from Marching Band (2 Fall Semesters), Athletics (during or after school), Cheerleading, or an activity outside of school that includes a minimum of 15 hours per week of supervised activity with a trained instructor)
- ½ Credit of Speech (Professional Communications or Public Speaking for Debate Students --1 credit that counts toward your speech credit and your Debate Program of Study)
- ½ Credit of Health
- 1 Credit of a Fine Art (Art, Band, Choir, Floral Design, Theatre Arts)
- 4 Credits in one Endorsement Area.
- 4 Elective Credits



## COLLEGE PREPARATION TIMELINE

### GRADE 8

Each student will carefully complete a four-year high school academic plan. Parents and students will be invited to a small group information session in the spring. Each student will carefully complete a four-year high school academic plan. It is strongly recommended that each student carefully read the course selection guide and carefully choose courses for high school.

### GRADE 9

Four year plans that were developed in the eighth grade will be re-evaluated during the ninth grade registration process. Careful consideration should be given to reviewing the four-year graduation plan with your high school counselor and parents. Students should continue exploring their interests. Students should research colleges and review college catalogs and publications which give college profiles. Begin keeping in your portfolio report cards, test scores, honors, school activities, community activities and work experience. You may also want to keep samples of your major school projects, papers, etc. Know National Collegiate Athletic Association (NCAA) requirements if you want to play sports in college. Take courses that are challenging and work to your full potential. Be a self-advocate, attend tutorials and do not let yourself fall behind in your classes. Remember your GPA and class rank will be important when applying to Colleges.

### GRADE 10

Review the four-year plan. Take courses that are challenging and continue working to your full potential. Take the PSAT test in October if you want to get the experience of taking a college entrance exam. Take the ACT test in the Spring to get a baseline college entrance score if you are planning to attend college. Continue to research colleges online that you might be interested in attending. Begin to visit colleges in the summer, especially if you are interested in a highly selective college. Be sure to study to make your grades representative of your abilities. Continue adding to your profile. Remember to choose your college based on what you want your major to be. Not all colleges offer all majors. **Remember to qualify for access to dual credit courses you must have an overall grade point average of at least an 80 and pass the TSI test or ACT test with college ready scores.**

### GRADE 11

Review the graduation plan and narrow college choices. Confer with parent(s) and the counselor to decide on courses for the senior year and to discuss post-graduation plans. Take challenging courses. Attend the Greater East Texas College Night at Maud Cobb Activity Center sponsored by the Greater Longview Organization for Business and Education. Representatives from over 100 colleges, universities, technical schools and the military will be present to answer questions about admission, cost of tuition and housing, financial aid and academic programs. Begin your high school resume and be sure to include all your school, church, and community activities, honors, awards, volunteer hours/projects, work experience, and technology skills. Take the SAT and/or

ACT in the late spring. Visit colleges in the summer. Look for college information and applications online or contact the college. Make grades representative of your ability. Continue adding to your portfolio.

## GRADE 12

Finalize college choices and send letters/applications to the colleges of your choice. Check with the counseling center, the Internet and the catalog from the college(s) of your choice to apply for any scholarships for which you may qualify. Confer with your counselor in early fall. In September, gather the financial data needed for the Free Application for Federal Student Aid (FAFSA). Attend the Greater East Texas College Night at Maud Cobb Activity Center sponsored by the Greater Longview Organization for Business and Education. Representatives from over 100 colleges, universities, and technical schools and the military will be present to answer questions about admission, cost of tuition and housing, financial aid and academic programs. Take the SAT and/or ACT in October or November. Complete the Financial Aid application (FAFSA) in October. Once a college receives your FAFSA and application they may begin offering you financial aid. Send regular decision applications in the fall semester (preferably by December 1<sup>st</sup>). After you are accepted to a college, send in housing applications in early fall, especially to colleges that are highly competitive for dorm space. Analyze SAT and ACT test results in December to determine if you need to take the test again. Finalize your resume. Continue adding to your portfolio.

- **Financial Aid:** The FAFSA becomes available on October 1<sup>st</sup>. The information for the application is based on income tax returns. Through this application, eligibility is determined for grants, loans, work-study programs, and some scholarships. Beginning 2020, students will be required to complete the FAFSA or parents will be required to sign a waiver. You may apply on-line at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). If you do not complete the FAFSA you will be required to complete an OPT OUT form in order to graduate.
- **Scholarships:** The best resource for scholarship information is directly from the financial aid office at the college(s) you wish to attend. The counseling center will also have information about certain scholarships. Most scholarship opportunities are posted online, allowing student's the opportunity to do local and national scholarship searches on their own. Local scholarships will be linked to the google classroom for that particular senior class.
- **Common Application:** Texas offers a common application for all public universities. This application may be obtained online at [www.applytexas.org](http://www.applytexas.org).





## College Board Advanced Placement (AP)

The Advanced Placement Program allows students to take college-level courses to prepare them for exams which allow them to earn college credit or placement while still in high school. Most colleges and universities have an AP policy granting incoming student credit and/or placement on the basis of their AP Exam grades. Each college or university sets its own standards so you will need to check with the college of your choice for their established requirement to receive credit. AP Exams represent the culmination of the AP.

## Dual Credit Enrollment

Dual Credit is a process by which a high school student enrolls in a college course and receives simultaneous academic credit for the course from both the college and the high school. The Dual Credit program provides an opportunity for academically strong high school students to enroll in college-level courses that fulfill high school graduation requirements. In order for a course to be dual credit it must be offered as a high school credit and a college credit.

**A Dual Credit course is a college course in all respects it is simply taught on the high school campus by a College instructor.** Students are considered college students and must be their own advocates with the college professors. These courses are Kilgore College classes grading and content are not under the control of White Oak ISD. The curriculum and teaching methods are the same as used in other college courses. Students will be expected to conduct themselves as college students, and regular college academic policies will apply. While taking courses through Kilgore College, students must know:

- To prepare for college course assignments, all college students should expect to invest at least as much time out-of-class as in-class reading and studying.
- High school courses may not address the same controversial issues or subject matter as a college course. Dual Credit students should be prepared to participate in college level class discussions.
- The student should pay careful attention to the instructor's system for assigning grades. The instructor's grading system is covered in the course syllabus which is distributed at the beginning of each course.
  - Do not expect to repeat work in order to improve a grade.
  - Do not expect to do extra work to bring up a low grade.
- High school extra-curricular activities may conflict with a Dual Credit course. Students are responsible for all materials related to the course whether or not they are in class the day the information is given or the assignment is made. Students will need to talk to their instructor to make arrangements for receiving handouts, classroom information, obtaining lecture notes, or turning in work. Kilgore College has a policy that students are dropped after 2 weeks of absences. That is 4 times for a class that meets 2 times a week. **Parents and students should seriously discuss priorities before enrollment in a Dual Credit course. Keep in mind, an absence is defined as "a student not being in class".**



- While taking courses through Kilgore College, the student must adhere to all college policies and regulations contained in the college catalog, student handbook, class schedule, and course syllabus.

## Weighted Courses

Courses offered for weighted GPA points include all Honors, AP and district approved Dual Credit courses. Additional weights are not calculated into the numerical average, it is only calculated into the GPA. The numerical grade itself is not weighted. The weighted points are calculated into the student's GPA on the transcript. If a student's numerical grade is less than a 70 no weighted GPA points will be awarded.

**Level 3:** AP Calculus, AP English III, AP English IV, AP Biology, AP Chemistry, Honors Anatomy and Physiology, and District approved Dual Credit Courses. Current courses taught for dual credit on campus are Federal Government 2305, US History 1301&1302, English 1301 & 1302, College Algebra, College Statistics.

**Dual credit classes with grades below 70 do not receive high school credit.**

**Level 2:** Honors English 1 & II, Honors Geometry, Honors Algebra 2, Honors Precalculus, Honors Biology, Honors Chemistry, Honors Physics, Scientific Research & Design, Engineering Science, Debate (3<sup>rd</sup> and 4<sup>th</sup> year), Advanced Journalism (3<sup>rd</sup> and 4<sup>th</sup> course during 11<sup>th</sup> and 12<sup>th</sup> grade year), Honors Spanish 1, 2, 3 & 4,

**\*Students in Advanced Journalism who have completed journalism courses for at least 2 years prior will receive weighted credit during their Junior and Senior years. No student may receive weight for more than one advanced journalism course per year.**

**Availability of courses depends on staff, budget, enrollment and the master schedule each year.**

## Early (3-Year) Graduation

To be considered for early (3-year) graduation a student must complete the appropriate application which must be returned to the student's counselor **no later than May 1st of the student's sophomore year and must be approved by the principal.** Early (3-year) graduates may participate in the graduation exercises.

**To apply for early (3-year) graduation,** a student must meet the following criteria:

- The student must have earned a minimum of 20 credits prior to the first day of the student's junior year (final year of high school).
- The student must have completed or is enrolled in all courses required graduate with at least one endorsement.
- The student must have passed all sections of the Exit EOC test prior to the last day of the student's junior year (final year of high school).
- If the student is participating in a correspondence course or taking a credit-by-exam, documentation of completion of the course/exam must be submitted to the student's counselor prior to the final day of the student's junior year (final year in high school) in order for the student to be considered an early (3-year) graduate.



# White Oak High School Personal Graduation Plan



The Four Year Plan is intended to give you and your parent(s) a guide to use as you progress through high school. You will want to review the plan each year to make sure you are taking the required courses for graduation. On the back of this sheet are suggested Plans of Study for each of the 5 Endorsements that are listed on this page. You may use these as guides to help you select courses that support your career goals. Make sure that you are taking the academic courses that support your post-secondary plans.

**Endorsement(s):**  
(Mark 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> Choice as needed)

\_\_\_\_\_ STEM  
\_\_\_\_\_ Business and Industry  
\_\_\_\_\_ Arts and Humanities  
\_\_\_\_\_ Multidisciplinary Studies  
\_\_\_\_\_ Public Services

**Specialization Area:**  
\_\_\_\_\_

**My Post High School Plans will take me to:**  
(Check as many as apply)

\_\_\_\_\_ Two Year College  
\_\_\_\_\_ Technical Training  
\_\_\_\_\_ Four Year College  
\_\_\_\_\_ Employment  
\_\_\_\_\_ Military  
\_\_\_\_\_ Other

**My Graduation Plan Type Is:**

\_\_\_\_\_ Foundation w/ Endorsement  
\_\_\_\_\_ **Distinguished Level of Achievement**

## GRADUATION PLANS 2021-2022

**Foundation + Endorsement(s)**  
(Distinguished Level of Achievement Requires Algebra II)

DISCIPLINE	CREDITS
Endorsement Courses	4
English	4
Math	4
Science	4
Social Studies	3
Foreign Language	2
Fine Arts	1
Physical Education	1
Professional Communication / Speech	½
Health	½
Electives (Should be 2 <sup>nd</sup> Endorsement)	4
<b>Total Credits Required To Graduate From WOHS</b>	<b>28</b>

**Directions:** Students seeking **Distinguished Level of Achievement** need to complete 4 courses in Math and Science including **Algebra 2**.

Periods	9 <sup>th</sup> GRADE	10 <sup>th</sup> GRADE	11 <sup>th</sup> GRADE	12 <sup>th</sup> GRADE
<b>1</b>	English 1 / Honors English 1	English 2 / Honors English 2	English 3/ AP English 3	English 4 / English 4CP/ AP English 4 / Dual Credit English 4
<b>2</b>	Algebra I/ Geometry/Honors Geometry	Geometry / Honors Geometry / Algebra II /Honors Algebra II	Algebra II / Honors Algebra II / PreCal Honors PreCalculus	PreCal/Honors PreCalculus /AP Calculus / Dual Credit Math / Math 4
<b>3</b>	Biology / Honors Biology	Chemistry / Honors Chemistry	Physics / Honors Physics / Anatomy/ Honors Anatomy/ Plant Sci/ Animal Sci / Environmental Science	AP Bio/ AP Chem/ Honors Anatomy/ Plant Sci / Animal Sci/ Environmental Sci / Scientific Research & Dsn / Engineering Sci
<b>4</b>	Speech / Health	World Geography/ World History	US History / Dual Credit US History	Government / Dual Credit Government <b>AND</b> Economics
<b>5</b>	Spanish 1 / Honors Spanish 1/ Or Elective	Spanish 1 /Spanish 2/Honors Spanish 2 Computer Science 1 / or Elective	Spanish 2 / Honors Spanish 3 or Computer Science 1 / Comp Sci 2 or Elective	Honors Spanish 4 /Computer Sci 2 /Computer Sci 3 / Elective
<b>6</b> (1 Fine Arts)	Band 1, Art 1, Choir 1, Theatre 1 or Elective	Floral Design or Elective	Elective	Elective
<b>7</b> (1 PE Credit)	P.E. / Boys Athletics / Girls Athletics.	Elective	Elective	Elective
<b>8</b>	Endorsement #1 Course 1 <b>Circle Choice on Back</b>	Endorsement #1 Course 2	Endorsement #1 Course 3	Endorsement #1 Course 4

## Endorsements

(Select at least one box and complete the requirements for at least one Endorsement)

STEM Endorsement (Must Complete Algebra 2, Chemistry & Physics)	Public Services Endorsement	Business & Industry Endorsement			Arts & Humanities Endorsement	Multidisciplinary Studies Endorsement
<b>Mathematics</b> 5 Courses in Math including Algebra 1, Geometry, • Algebra 2 + 2 courses for which Alg 2 is a prerequisite	<b>Teaching and Training</b> •Principles of Education •Human Growth •Instructional Practices (2) •Practicum in Education and Training (2)	<b>Animal Science</b> •Principles of Agriculture •Livestock Production •Veterinary Medical Applications •Adv Animal Science and/or Practicum in Agriculture (2)	<b>Business Management &amp; Administration</b> • Principles of Business, Marketing and Finance • Business Info Mgt1 • Business Information Management 2 •Business Management	<b>Culinary Arts</b> •Intro to Culinary •Culinary Arts (2) •Adv Cul. Arts (2) •Practicum in Culinary Arts (2)	<b>Social Studies</b> 5 Credits from Social Studies Courses	<b>4 X 4 Foundation Credits</b> 4 credits in the 4 foundation areas to include English 4 and Chemistry and/or Physics
				<b>Debate</b> •Public Speaking •Debate 1 •Debate 2 •Debate 3		
<b>Computer Science</b> •Fundamentals of Computer Science •Comp Sci 1 •Comp Sci 2 •Comp Sci 3		<b>Applied Agricultural Engineering</b> •Principles of Agriculture •Agricultural Mechanics & Metal Technologies •Agricultural Structures Design •Practicum in Ag (2)	<b>Design and Multimedia Arts</b> • Principles of Arts / AV •Animation 1 •Animation 2 •Animation 3	<b>Print Shop</b> •Graphic Design •Print Shop 1 •Print Shop 2 •Prac in Print Shop(2)	<b>Foreign Language</b> •4 of the Same Foreign Language or •2 Levels of 2 Foreign Languages	<b>4 Credits in AP or Dual Credit</b> 4 Credits in AP or Dual Credit selected from English, Math, Science, Social Studies, Economics, Foreign Language or Fine Arts
<b>Science</b> 5 Courses in Science including Biology, Chemistry, Physics, and 2 Additional Science courses	<b>Health Care Therapeutic</b> •Principles of Health Science •Medical Terminology •Anatomy and Physiology •Practicum in Nursing (2)	<b>Agriculture: Plant Science</b> •Principles of Agriculture •Floral Design •Advanced Floral Design •Adv Plant and Soil Science and/or •Practicum in Ag (2)	<b>Digital Communications</b> • Principles of Arts / AV • Digital Audio Tech 1 /Radio Broadcasting 1 • Audio/Video Prod 1 • Audio/Video Prod 2	<b>Agriculture: Plant Science</b> •Principles of Agriculture •Horticulture Science •Adv Plant and Soil Science •Practicum in Ag (2)	<b>Fine Arts</b> 4 Credits from one or two categories in Fine Arts (Band, Art, Choir, Theatre)	<b>4 Advanced Workforce Courses</b> 4 Advanced courses that prepare a student to enter the workforce or postsecondary education from one endorsement area or among endorsement areas that are not in a coherent sequence
		<b>Accounting &amp; Financial Services</b> •Principles of Business, Marketing and Finance •Accounting 1 •Accounting 2 •Accounting 3	<b>Journalism</b> •Journalism /Prn of AV – (8 <sup>th</sup> grade) •Journalism 1 / Digital Media •Journalism 2 / Graphic Design •Journalism 3H / Graphic Design 2 •Journalism 4H / Digital Art & Comm			

## Performance Acknowledgments

Students may earn this additional acknowledgment on their diploma by completing one or more of the following:

- ☐ **Dual Credit:** At least 12 hours of college academic courses including core curriculum, ATC and locally articulated courses with a grade equivalent of 3.0 on a 4.0 scale.
- ☐ **Bilingualism and Biliteracy:**  
Completing all English language arts requirements with a minimum GPA of 80 AND one of the following:
  - Demonstrate proficiency in a LEVEL 4 or higher in a language other than English with a GPA of 80
  - Complete at least 3 credits in a Language Other Than English (LOTE) with a GPA of 80
 In Addition to the above, an English language learner must also have:
  - participated in and met exit criteria for a bilingual or ESL program and scored at the Advanced High Level on the TELPAS exam
- ☐ **AP Exams:**  
A score of 3 or above on an AP exam
- ☐ **PSAT/ ACT-PLAN / SAT/ ACT Exams:**
  - Earning a score on the PSAT that qualifies the student for recognition as a commended scholar or higher
  - Earning a combined critical reading and math score of at least 1250 on the SAT exam
  - Earning a composite score on the ACT exam of 28 (excluding writing).
- ☐ **Business/Industry Certification:**
  - Performance on an exam or series of exams sufficient to obtain a nationally or internationally recognized business certification

### ASSURANCE OF NONDISCRIMINATION

No student shall be denied the right to participate in any school program, education service, or activity because of the student's race, religion, color, sex, national origin, or disability. White Oak Independent School District does not discriminate on the basis of race, religion, color, national origin, sex or disability in providing educational services, activities, and programs, in accordance with Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Educational Amendments of 1972; Section 504 of the Rehabilitation Act of 1973, as amended; and Title II of the Americans with Disabilities Act.



## Chart of Courses by Department



Department	English Language Arts			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
English I	ENG1	9	1	
Honors English 1	ENG1H	9	1	Summer Reading
English 2	ENG2	10	1	English 1
Honors English 2	ENG2H	10	1	Honors English 1 with an 80 <b>or</b> Eng1 with a 90 <b>and</b> Summer Reading
English 3	ENG3	11	1	English 2
AP English 3	ENG3P	11	1	Recommended: Honors English 2 with a 80 <b>or</b> English 2 with a 90 <b>and</b> Summer Reading
English 4	ENG4	12	1	English 3 + passing TSI Score or IBC
English 4CP	ENG4CP	12	1	English 3
AP English 4	ENG4P	12	1	AP English 3 <b>or</b> English 3 with an 90 avg. recommended <b>and</b> Summer Reading
Dual Credit English 4	ENGDC (ENGL 1301 & ENGL 1302)	12	1	AP English 3 <b>or</b> English 3   Kilgore College Online Application and Dual Credit form signed.   Admission to College with required TSI Scores   Student must pay for tuition and books.

Department	Mathematics			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Algebra 1	ALG1	9	1	
Geometry	GEOM	9-10	1	Algebra 1
Honors Geometry	GEOMH	9-10	1	Algebra 1
Algebra 2	ALG2	10-12	1	Algebra 1 <b>and</b> Geometry
Honors Algebra 2	ALG2H	10-12	1	Algebra 1 <b>and</b> Honors Geometry
Honors Precalculus	PCALCH	11-12	1	Algebra 1 <b>and</b> Geometry <b>and</b> Algebra 2
Precalculus	PCALC	11-12	1	Algebra 1 <b>and</b> Geometry <b>and</b> Algebra 2
AP Calculus	CALCP	12	1	Honors Precalculus
Math4	MATH4CP	12	1	Algebra 2
Dual Credit Math College Algebra   Statistics	MATHDC	12	1	Algebra 2 and passing TSI score in Math, enrolled in Kilgore College, Tuition fees

Department	Science			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Biology	BIO	9-10	1	
Integrated Physics & Chemistry	IPC	9-10	1	ONLINE Course
Chemistry	CHEM	10-12	1	Algebra 1 and Biology
Honors Chemistry	CHEMH			Algebra 1 <b>and</b> Biology   Strong interest in science
Physics	PHYS	10-12	1	Algebra 1
Honors Physics	PHYSH	11-12	1	Algebra 1 <b>and</b> Biology   Strong interest in science
Anatomy and Physiology	ANAT	11-12		Biology and Chemistry
Honors Anatomy and Physiology	ANATH	11-12	1	2 Science courses including Biology, Strong interest in science
AP Biology	BIOP	12	1	Biology
AP Chemistry	CHEMP	12	1	Chemistry
Environmental Systems	ENVSYS	11-12	1	Chemistry
Advanced Animal Science	ANIMSC	11-12	1	Biology <b>and</b> Chemistry   Algebra 1 and Geometry   Livestock Production
Advanced Plant and Soil Science	PLTSC	11-12	1	Biology, Chemistry <b>or</b> Physics <b>and</b> a minimum of one credit from the courses in Agriculture
Scientific Research and Design (Honors)	SCIRD	12	1	Biology, Chemistry and Physics
Engineering Science (Honors)	ENGSCI	12	1	Algebra 1, Biology, Chemistry, and Physics
Department	Social Studies			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
World Geography	WGEO	9-12	1	
World History	WHIS	9-12	1	
U.S. History	USHIS	10-12	1	
Dual Credit US History	HISDC (HIST1301 & HIST 1302)	11-12	1	Online Kilgore College Application.   Dual Credit Form Signed   Admission to College with required TSI Scores   Student must pay for TSI test, course tuition both semesters and books. (These 2 courses will give the student credit for High School U.S. History.)



Department	Social Studies			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Government	GOVT	12	½	U.S. History
Economics	ECON	12	½	U.S. History
Dual Credit Government	GOVTDC	12	½	Online Kilgore College Application.   Dual Credit Form Signed   Admission to College with required TSI Scores   Student must pay for TSI test, course tuition and books.
Kilgore College Texas Government	TXGVT	12	½	College Credit Only
Psychology	PSYCH	9-12	½	Online – in lab on campus
Sociology	SOC	9-12	½	Online – in lab on campus
Personal Financial Literacy	PFL	9-12	½	Online – in lab on campus
Personal Financial Literacy / Economics	PFLECO	11-12	½	Online – in lab on campus
Department	Speech and Debate			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Professional Communications	SPCH	9-12	½	Fulfills Speech requirement for graduation
Public Speaking	PUBSPK	9-12	1	Fulfills Speech requirement for graduation and the 1 <sup>st</sup> course in Debate Program of Study
Debate 1	DEB1	10-12	1	Public Speaking
Debate 2	DEB2H	11-12	1	Debate 1
Debate 3	DEB3H	12	1	Debate 2
Department	Foreign Language (Languages Other Than English)			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Spanish 1	SPAN1	9-10	1	
Honors Spanish 1	SPAN1H	9-10	1	Summer Work required
Spanish 2	SPAN2	10-11	1	Spanish 1
Honors Spanish 2	SPAN2H	10-11	1	Honors Spanish 1
Honors Spanish 3	SPAN3H	11-12	1	Honors Spanish 2
Honors Spanish 4	SPAN4H	12	1	Honors Spanish 3
Computer Science 1	COSC1	10-12	1	Algebra 1
Computer Science 2	COSC2	11-12	1	Computer Science 1
Computer Science 3	COSC3	12	1	Computer Science 3

Department	Fine Arts			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Art 1	ART1	9-12	1	
Art 2	ART2	10-12	1	Art 1 and Competes in Art Competitions
Art 3	ART3	11-12	1	Art 2 and Competes in Art Competitions
Art 4	ART4	12	1	Art 3 and Competes in Art Competition
Band 1	BAND1	9-12	1	Practices out side the school day and games required. All band courses are for a full year.
Band 2	BAND2	10-12	1	Band 1
Band 3	BAND3	11-12	1	Band 2
Band 4	BAND4	12	1	Band 3
JV Choir 1	CHRV1	9-12	1	Choirs are competitive and have competitions on some Saturdays.
JV Choir 2	CHRV2	10-12	1	CHRV1
JV Choir 3	CHRV3	11-12	1	CHRV2
JV Choir 4	CHRV4	12	1	CHRV3
Varsity Choir 1	CHRV1	9-12	1	Choirs are competitive and have competitions on some Saturdays.
Varsity Choir 2	CHRV2	10-12	1	CHRV1
Varsity Choir 3	CHRV3	11-12	1	CHRV2
Varsity Choir 4	CHRV4	12	1	CHRV3
Theatre Arts 1	THART1	9-12	1	Theatre requires participation in plays and speaking activities.
Theatre Arts 2	THART2	10-12	1	Theatre Arts 1
Theatre Arts 3	THART3	11-12	1	Theatre Arts 2
Theatre Arts 4	THART4	12	1	Theatre Arts 3
Floral Design	FLODES	9-12	1	Prn of Agriculture



Department	Health / Physical Education			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Health	HLTH1	9-12	½	
Boys PE	PE1B	9-12	1	For students not in Athletics, Marching Band, or other after school sport.
Girls PE	PE1G	9-12	1	For students not in Athletics, Marching Band, or other after school sport.
Department	Athletics			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Girl's Athletics	ATH1G, ATH2G, ATH3G, ATH4G	9-12	1	Girls who actively participates in Volleyball, Basketball, or Softball. *** All other sports are after school and do not require an Athletics period. You may however receive ½ credit during the season.
Boy's Athletics	ATH1B, ATH2B, ATH3B, ATH4B	9-12	1	Boys who actively participates in Football or Basketball, or Baseball. *** All other sports are after school and do not require an Athletics period. You may however receive ½ credit during the season.
Department	Journalism			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Journalism /Prn of Arts AV	JRN	8th	1	
Journalism / Digital Media	JRNDM	9th	1	Only for students who took 8 <sup>th</sup> Grade Journalism
Journalism 2 / Graphic Design	J2	10th	1	10 <sup>th</sup> grade + one Journalism class
Journalism 3H / Graphic Design	J3	11-12	1	Journalism 2 and UIL, Yearbook or Newspaper staff / Application/ Instructor Approval
Journalism 4H / Commercial Photo 1	J4	12	1	Journalism 3 and UIL, Yearbook or Newspaper staff / Application/Instructor Approval

Department				
Agriculture, Food and Natural Resources				
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Principles of Agriculture, Food, and Natural Resources	PRNAG	8-10	1	
Livestock Production	LIVEST	11-12	1	Prn of Ag
Veterinary Medical Applications	VETMED	11-12	1	Livestock Production, Animal Science (May be concurrently taken)
Advanced Animal Science	ANIMSC	11-12	1 Science Credit	2 Sciences / 2 Maths / 1 Ag class preferably Livestock Production
Floral Design	FLODES	10-11	1	Prn of Agriculture (Fine Arts Credit)
Adv. Floral Design	ADVFLRS	11-12	1	
Horticulture Science	HORTSC	11-12	1	(Not a science class)
Advanced Plant and Soil Science	PLTSC	12	1 Science Credit	2 Sciences + 1 Agriculture class
Agricultural Structures Design and Fabrication	AGSTR	10-12	1	Algebra 1 <b>and</b> Principles of Agriculture
Agricultural Equipment Design and Fabrication	AGEQU	11-12		Agricultural Structures Design and Fabrication
Practicum in Agriculture, Food, and Natural Resources	PRCWLD, PRCANI, PRCHOR; PRCFLO	12	2	At least 3 Agriculture Classes <b>You may only take one Practicum of Ag class per junior and senior year</b>

Department				
Arts, A/V Technology and Communications				
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Principles of Arts, A/V Technology, and Communications	PRNAV	9-12	1	
Audio/Video Production 1	AVPRO1	10-12	1	Principles of Arts, A/V Tech and Comm.
Audio/Video Production 2	AVPRO2	11-12	1	Audio/Video Production 1
Digital Audio Technology 1 / Radio Broadcasting 1	RADIO1	10-12	1	Principles of Arts, A/V Tech and Comm.
Digital Audio Technology 2 / Radio Broadcasting 2	RADIO2	10-12	1	Digital Audio Technology 1 / Radio Broadcasting 1
Animation 1	ANIM1	10-12	1	Prn of Arts, A/V
Animation 2	ANIM2	10-12	1	Animation 1
Animation 3	ANIM3	12	1	Animation 2
Graphic Design	GRAPHD	9	1	Algebra 1
Print Shop 1	PRINT1	10-11	1	
Print Shop 2	PRINT2	10-12	1	Print Shop 1
Practicum in Print Shop	PRCPRT	12	2	Print Shop 1 & 2

Department	Business Management and Administration and Finance			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Principles of Business, Marketing and Finance	PRNBUS	9	1	
Business Information Management 1	BIM1	10	1	
Business Information Management 2	BIM2	11	1	Business Information Management 1
Business Management	BUSMGT	11	1	2 Business courses
Accounting 1	ACCT1	10-12	1	Prn of Business, Marketing and Finance
Accounting 2	ACCT2	11-12	1	Accounting 1
Accounting 3	ACCT3	12	1	Accounting 2
Department	Education and Training			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Principles of Education and Training	PRNED	9-10	1	
Human Growth and Development	HGROW	10-12	1	Principles of Education and Training
Instructional Practices	IPET	11-12	2	Principles of Education and Training
Practicum in Education and Training	PET	12	2	Instructional Practices
Department	Health Science			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Principles of Health Science	PRNHSC	9	1	
Medical Terminology	MEDTRM	10-11	1	Principles of Health Science
Anatomy and Physiology or Honors Anatomy and Physiology	ANAT ANATH	11-12	1	2 Science courses including Biology
Practicum in Health Science	PRCHSC	12	2	3 Courses in Health Science and interest in a Health Science Career

Department	Hospitality and Tourism / Culinary Arts			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Intro to Culinary Arts	INCUL	9-10	1	
Culinary Arts	CULART	10-11	2	
Advanced Culinary Arts	CULAR2	11-12	2	Culinary Arts 1/ ServSafe Certification Required
Practicum in Culinary Arts	PRCCUL	12	2	3 Courses in Culinary Arts
Department	Science, Technology, Engineering, and Math			
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Fundamentals of Computer Science	FNCOSC	9	1	
Computer Science 1	COSC1	10-11	1	
Computer Science 2	COSC2	11-12	1	Computer Science 1
Computer Science 3	COSC3	12	1	Computer Science 2
Course	Course Code	Grade	Credits	Prerequisites   Requirements
Fire Fighter	FIRE	11-12	2	





## COURSE DESCRIPTIONS

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### DEPARTMENT: ENGLISH

#### English 1

**Course Code: ENG1**

**Prerequisites: None**

**Grade Level: 9**

**Credits: 1**

English 1 stresses the genre approach to literature and provides a year-long program of interrelated language skills with study in the areas of reading, writing, speaking, and listening. The course includes a study of literature, creative writing, and introductory research skills. **Students must pass a STAAR End of Course Exam in English 1.**

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#### Honors English 1

**Course Code: ENG1Q**

**Prerequisites: Required Summer Reading**

**Grade Level: 9**

**Credits: 1**

Honors English 1 is an advanced level English course designed for students identified as gifted and for students with a high degree of skill in reading, grammar, writing and interpretation of literature. The course provides for the development of high level thinking skills and an intensive in-depth study of literature and composition including grammar, mechanics and usage, reading concepts, and study skills. Honors English 1 places greater emphasis on critical thinking skills, student interaction, and independent research than does the English 1 class. A summer reading assignment is required. Students should see their eighth grade English teacher for assignment information. **Students must pass a STAAR End of Course Exam in English 1.**

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#### English 2

**Course Code: ENG2**

**Prerequisites: English 1**

**Grade Level: 10**

**Credits: 1**

English 2 reviews the literary genres within the context of world literature. The language study stresses the four major writing styles of description, exposition, narration, and persuasion. Vocabulary development, language usage, grammar, and elements of style receive special priority in the study of both literature and language. A research component is included. **Students must pass a STAAR End of Course Exam in English 2.**

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## Honors English 2

**Course Code: ENG2Q**

**Grade Level: 10**

**Prerequisites: English 1 or Honors English 1 and Required Summer Reading Credits: 1**

**Recommended: Grade of 90 in English 1 or 80 in Honors English 1**

Honors English 2 is an advanced level English course designed for students identified as gifted and for students with a high degree of skill in reading, writing, and interpretation of literature. The course provides for the development of high level thinking skills and an intensive in-depth study of literature and composition. A research component is included. Honors English 2 continues to develop skills acquired in Honors English 1 and focuses on the necessary skills for success in AP English 3. A summer reading assignment is required. See ninth grade English teacher for assignment information. **Students must pass a STAAR End of Course Exam in English 2.**

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## English 3

**Course Code: ENG3**

**Grade Level: 11**

**Prerequisites: English 2**

**Credits: 1**

English 3 balances the study of literature, composition, and language while reviewing the fundamentals of composition and sentence structure employed in effective writing. English 3 studies American literature from the beginning of literary development in the United States through contemporary times, including representative writers and their contributions to the literary heritage of the United States. The course integrates writing skills with the study of literature and the research process

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## AP English 3: Language and Composition

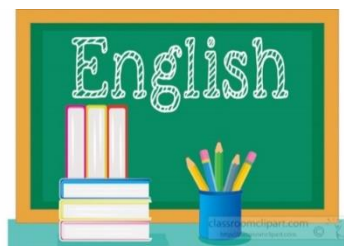
**Course Code: ENG3P**

**Grade Level: 11**

**Prerequisites: English 2 or Honors English 2 and Required Summer Reading Credits: 1**

**Recommended: Grade of 90 in English 2 or 80 in Honors English 2**

AP English 3 is designed for students identified as gifted and for college-bound students who demonstrate high levels of proficiency in the composition process and study of literature. The course presents a thematic or chronological study of American literature including an in-depth study of selected authors and their contributions to the literary heritage of the United States. A natural continuation of Honors English 1 and 2, this course uses instructional strategies to challenge students academically and intellectually. It includes reading-, writing-, and research-related skills in preparation for the Advanced Placement Language and Composition Examination for possible college credit. A summer reading assignment is required. See tenth grade English teacher for assignment information.



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## English 4

**Course Code: ENG4**

**Grade Level: 12**

**Prerequisites: English 3**

**Credits: 1**

English 4 introduces well-known British authors, their works and the thoughts that shape them. The course emphasizes the history and development of the English language, the art of critical thinking and writing, the techniques of research, and all grammatical structures that aid in effective communication. A research project is required.

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## English 4 CP

**Course Code: ENG4CP**

**Grade Level: 12**

**Prerequisites: English 3**

**Credits: 1**

English 4 students who are not yet college or career ready in English will complete the Texas College Bridge program in order to gain the skill needed in Reading and Writing. In this course, students will improve integrated critical reading, writing, and thinking skills through engagement with a variety of texts across content areas and genres. As a result, students will be able to develop and express ideas clearly and effectively to communicate with various audiences for different purposes and occasions.

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## AP English 4: Literature and Composition

**Course Code: ENG4P**

**Grade Level: 12**

**Prerequisites: English 3 or AP English 3 and Required Summer Reading**

**Credits: 1**

**Recommended: Grade of 90 in English 3 or 80 in Honors English 3**

AP English 4 is designed for students identified as gifted and for college-bound students who demonstrate high levels of proficiency in the composition process and study of literature. Students taking AP English 4 study major genres of the world's most complex literature. Students write multiple papers to challenge and develop their levels of language perception and literary analysis. Coursework prepares them to take the Advanced Placement Literature and Composition Exam for possible college credit. A summer reading assignment is required. See eleventh grade English teacher for assignment information.

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## Dual Credit: English 4 and College Freshman English

**Course Code: ENGDC1 & ENGDC2**

**Grade Level: 12**

**Prerequisites: English 3 or AP English 3**

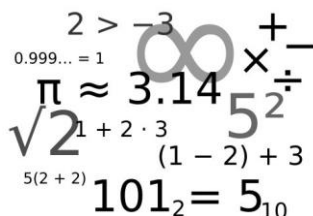
**Credits: 1**

**Requirement: Admission to College. College Ready Test Scores on a college entrance exam.**

**Online Dual Credit Application Completed. Dual Credit form signed and submitted. Student must pay for TSI test, course tuition and books.**

White Oak High School students who meet "early admission" standards at Kilgore College, and are accepted as students, may earn dual credit at the college and at high school through concurrent enrollment in English 1301 and English 1302. These courses are available at the Longview and Kilgore campuses and are offered on the White Oak High School Campus. Customized schedules at the high school will be allowed for academically gifted students who are enrolled in the class.

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## DEPARTMENT: MATHEMATICS

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### Algebra 1

**Course Code: ALG1**

**Grade Level: 9**

**Prerequisites: None**

**Credits: 1**

Algebra 1 covers the study of equations in one and two variables, polynomials, algebraic fractions, roots and powers, quadratic functions and other non-linear functions. Students learn to apply the material to real life situations by solving word problems. Students learn to use the graphing calculator as a tool in working with mathematical concepts and real life word problems. **Students must pass a STAAR End of Course Exam in Algebra 1.**

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### Geometry

**Course Code: GEOM**

**Grade Level: 9 – 10**

**Prerequisites: Algebra 1**

**Credits: 1**

Geometry is a course designed to develop thinking skills, logic problem solving, application of algebraic skills to geometric problems, and proofs based on deductive reasoning. Students use coordinate, transformational, and axiomatic approaches to develop an understanding of a variety of concepts including polygon congruence, similarity, angle relationships in polygons and circles, parallel and perpendicular lines, and the relationships between three dimensional figures. Students develop and apply formulas including distance, midpoint, perimeter, area, surface area, and volume.

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### Honors Geometry

**Course Code: GEOMQ**

**Grade Level: 9 – 10**

**Prerequisites: Algebra 1**

**Credits: 1**

Honors Geometry provides an enriched course of study for students with strong math skills. The basic content is the same as regular geometry, but an emphasis is placed upon the development of logical thinking through complex geometric proofs. Applications of geometric concepts to problem solving using algebra and trigonometry are also stressed.

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## Algebra 2

**Course Code: ALG2**  
**Prerequisites: Geometry**

**Grade Level: 10 – 12**  
**Credits: 1**

Algebra 2 is strongly recommended for college bound students and for the student who will enter a technical career. In Algebra 2, the study of functions begun in Algebra 1 is reinforced, connecting algebraic and geometric representations of functions. The content of Algebra 2 is organized around families of functions, including linear, quadratic, exponential, logarithmic, radical, and rational functions. As students study each family of functions, students will learn to represent them in multiple ways--as verbal descriptions, equations, tables, and graphs. Students will also learn to model real-world situations using functions in order to solve problems arising from those situations.

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## Honors Algebra 2

**Course Code: ALG2Q**  
**Prerequisites: Honors Geometry**

**Grade Level: 10 – 12**  
**Credits: 1**

Honors Algebra II is designed for students who want to better prepare themselves for AP Calculus and college level mathematics. The standard Algebra II class has been enhanced with additional materials that promote a deeper mathematical understanding of Algebra topics, and includes topics not covered in the standard Algebra II course. The course contents are centered on families of functions, including linear, quadratic, exponential, logarithmic, radical, and rational functions. Students learn to represent functions in multiple ways, including verbal descriptions, equations, tables and graphs. Students will also model real-world situations by solving application problems of each function type.

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## Precalculus

**Course Code: PCALC**  
**Prerequisites: Algebra 2**

**Grade Level: 11 – 12**  
**Credits: 1**

Pre-Calculus is the preparation for higher level math courses. Course content continues the development of fundamental concepts and skills that were introduced in Algebra II. The core curriculum includes concepts, skills, and applications of equations and inequalities with square roots, rational, exponential, logarithmic, polynomial, absolute value, trigonometric and other special functions. This course is highly recommended for college-bound students who wish to leave open the option of taking calculus in college.

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## Honors Precalculus

**Course Code: PCALCQ**

**Grade Level: 11 – 12**

**Prerequisites: Honors Algebra 2**

**Credits: 1**

This course is designed for serious math students who are preparing to take AP Calculus as a high school senior. It covers the knowledge and skills described in Precalculus at an accelerated rate and with greater depth. Higher level thinking skills are required as connections are made to previous courses and extended to concepts required for Calculus. Students who plan to take AP Calculus as a senior should take Honors Precalculus as a junior.

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## AP Calculus

**Course Code: CALCP**

**Grade Level: 12**

**Prerequisites: Honors Precalculus**

**Credits: 1**

**Recommended: Grade of 80 in Honors Precalculus**

AP Calculus AB emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. The course contents include the study of functions, graphs and limits, derivatives, integrals and the applications of each. This course will prepare students for the AP Calculus AB exam, administered by the College Board, which can result in credit for first semester college calculus, if passed.

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## Math 4 CP

**Course Code: CPMAT**

**Grade Level: 12**

**Prerequisites: Algebra 2**

**Credits: 1**

Students will learn skills to prepare them for the math they will need in their future careers, technical schools and colleges. Students to learn skills to allow them to score College Ready on the Texas Success Initiative Assessment (TSIA). Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

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## Dual Credit Math (College Algebra and Statistics)

**Course Code: MATHDC**

**Grade Level: 12**

**Prerequisites: Algebra 2**

**Credits: 1**

**Requirement: Admission to College. College Ready Test Scores on a college entrance exam. Online Dual Credit Application Completed. Dual Credit form signed and submitted. Student must pay for TSI test, course tuition and books.**

White Oak High School students who meet “early admission” standards at Kilgore College, and are accepted as students, may earn dual credit at the college and at high school through concurrent enrollment in College Algebra and College Statistics.





## DEPARTMENT: SCIENCE

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### Biology

**Course Code: BIO**  
**Prerequisites: None**

**Grade Level: 9 – 10**  
**Credits: 1**

Biology is a required course for all graduation plans. In biology, students study the structure and function of cells and viruses; growth and development of organisms; nucleic acids and genetics; biological evolution; taxonomic classification; metabolism and energy transfers in living organisms; homeostasis; ecosystems; and plants and the environment. **Students must pass a STAAR End of Course Exam in Biology.**

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### Honors Biology

**Course Code: BIOH**  
**Prerequisites: None**

**Grade Level: 9 – 10**  
**Credits: 1**

Biology is a required course for all graduation plans. Honors Biology is for students who enjoy learning science at a faster pace and more in-depth than the traditional course. In biology, students study the structure and function of cells and viruses; growth and development of organisms; nucleic acids and genetics; biological evolution; taxonomic classification; metabolism and energy transfers in living organisms; homeostasis; ecosystems; and plants and the environment. **Students must pass a STAAR End of Course Exam in Biology.**

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### Integrated Physics and Chemistry

**Course Code: IPC**  
**Prerequisites: Online only**

**Grade Level: 9-10**  
**Credits: 1**

In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use scientific practices during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter..

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## Chemistry

**Course Code: CHEM**

**Grade Level: 10 – 11**

**Prerequisites: Biology**

**Credits: 1**

This course is the study of the basic principles of chemistry with an emphasis on problem solving and chemistry in the environment. The course will help students to attain a good understanding of chemistry fundamentals and a reasonable competence in dealing with chemical problems. It will help to develop problem solving skills related to the nature of matter, chemical reactions, stoichiometry, energy transformations, atomic and molecular structure, quantum theory, chemical bonding, and periodic properties.

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## Honors Chemistry

**Course Code: CHEMQ**

**Grade Level: 10 – 11**

**Prerequisites: IPC and/or Biology with a strong interest/ability in science**

**Credits: 1**

Honors Chemistry is an advanced level course taking the concepts of Chemistry and expanding them to include dimensional analysis and a greater emphasis on data collection and laboratory investigations. A more in-depth look at chemical concepts will prepare students to take future college courses in chemistry.

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## Physics

**Course Code: PHYS**

**Grade Level: 11 – 12**

**Prerequisites: Biology**

**Credits: 1**

This is a beginner level physics course which looks at the principles of motion and will provide students with a better understanding of the way our world works. This course is designed to provide students with a strong foundation and conceptual understanding of physics which will prepare students to take a variety of other physics courses.

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## Honors Physics

**Course Code: PHYSH**

**Grade Level: 11 – 12**

**Prerequisites: Biology**

**Credits: 1**

**Recommended for stronger science students.**

This is an honors course and contains rigorous coursework. It provides a systematic introduction to the main principles of physics and emphasizes the development of problem-solving ability. Topics include mechanics, dynamics, energy, momentum, rotation, waves, and basic electricity.

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## **Anatomy and Physiology**

**Course Code ANAT**

**Grade Level: 11 – 12**

**Prerequisites: Biology and Chemistry**

**Credits: 1**

Students are required to locate, identify, and describe functions and structures of the organ systems. They will participate in laboratory investigations and dissections exploring the organ systems and related epidemiological issues of human disease. Students will use critical thinking, scientific reasoning, and problem solving to explore the human body as well as current issues in the medical fields.

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## **Honors Anatomy & Physiology**

**Course Code: ANAT**

**Grade Level: 12**

**Prerequisites: Chemistry and/or Physics and strong science/study skills**

**Credits: 1**

This honors course is a study of the anatomy and physiology of the human body. Students are required to locate, identify, and describe functions and structures of the organ systems. They will participate in laboratory investigations and dissections exploring the organ systems and related epidemiological issues of human disease. Students will use critical thinking, scientific reasoning, and problem solving to explore the human body as well as current issues in the medical fields. This is a very rigorous course and students should possess excellent study and laboratory skills.

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## **Scientific Research & Design**

**Course Code SCIRD**

**Grade Level: 12**

**Prerequisites: Physics**

**Credits: 1**

Scientific Research and Design is a rigorous project-based learning course. In this course, students will learn about the nature of science, methods of scientific inquiry, and the application of scientific information in society. This course allows students to explore science while improving fundamental research skills, implementing the scientific method, and enhancing oral and visual presentation techniques. Each student develops his/her own independent science research project and learns how to structure, organize, and present the project in one or more formal presentations. This course is for an honors course of study.

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## **Engineering Science**

**Course Code ENGSCI**

**Grade Level: 12**

**Prerequisites: Physics**

**Credits: 1**

In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. This is for an honors course of study.

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## Advanced Plant and Soil Science

**Course Code: PLTSC**

**Grade Level: 11 – 12**

**Prerequisites: Biology, Chemistry or Physics and One Agriculture Class**

**Credits: 1**

This course provides a way of learning about the natural world through plant and soil science realizing that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. This science course is designed to prepare students for careers in the food and fiber industry. **This course counts as an advanced science.**

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## Advanced Animal Science

**Course Code: ANIMSC**

**Grade Level: 11 – 12**

**Prerequisites: Biology and Chemistry, and**

**Credits: 1**

**Algebra 1, Geometry and**

**One Agriculture course preferably Livestock.**

Want to be a vet? Advanced Animal Science is a lab based technical course that allows students to explore the various areas of livestock production through a hands-on approach to learning. At least 40% of the instructional time will be used to conduct field and laboratory investigations. Nutrition, genetics, breeding systems, anatomy and physiology, health, and selection are some of the areas that will be covered. This course counts as an advanced science.

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## DEPARTMENT: SOCIAL STUDIES

### World Geography

**Course Code: WGEO**  
**Prerequisites: None**

**Grade Level: 9-12**  
**Credits: 1**

Students examine people, places, and environments. A significant portion of the course centers around the physical processes; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region.

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### World History

**Course Code: WHIS**  
**Prerequisites: None**

**Grade Level: 9-12**  
**Credits: 1**

Beginning with the ancient river valley civilizations, this course traces the development of both western and non-western cultures. The historical development of western civilization is traced by examining the Greek and Roman societies, the Middle Ages, the Renaissance, Reformation, Colonization, and the Age of Imperialism. The influence of the major religions upon western thought is also studied. Tracing the cultural development and influence of Russia, India, Japan, China, and Latin America on world events covers the historical development of other regions.

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### US History

**Course Code: USHIS**  
**Prerequisites: World History or World Geography**

**Grade Level: 10-12**  
**Credits: 1**

Students will examine political, economic, social, and cultural developments from the post-Civil War period to recent times. They will see the connection between the past and present and better understand current events in the United States. Students will also be exposed to new ways of thinking about American history – going beyond memorizing names and dates and figuring out why things happened the way they did. Students will become more informed and tolerant citizens of our nation and the world community. Students must pass the STAAR EOC for this course.

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## Dual Credit History

**Course Code: HISDC1 & HISDC2**

**Grade Level: 11-12**

**Prerequisites: College Early Admission**

**Credits: 1**

Taught in conjunction with Kilgore College, students will study post-Civil War United States History through Kilgore College faculty and receive credit for high school US History, as well as College History 1302. Students must take the **US History EOC test**.

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## Government

**Course Code: GOVT**

**Grade Level: 12**

**Prerequisites: US History and World History**

**Credits: 1/2**

This course is designed to explain the foundations, development, structures, and functions of the U.S. political system, and students will be provided opportunities to compare various types of governments and reasons for their establishment. Special attention will be paid to the U.S. Constitution, the Bill of Rights, and the structures and functions of the three branches of the U.S. Government.

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## Economics

**Course Code: ECON**

**Grade Level: 12**

**Prerequisites: US History and World History**

**Credits: 1/2**

This one-semester course provides students the opportunity to study the basic characteristics, benefits, and goals of the American Free Enterprise System. Government's role in the American economic system and international economic relations are also emphasized. Students are provided an opportunity to study basic principles of production, consumption, and distribution of goods and services in a free enterprise environment.

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## Dual Credit Government

**Course Cod: GOVTDC**

**Grade Level: 11-12**

**Prerequisites: College Early Admission**

**Credits: 1/2**

Taught in conjunction with Kilgore College, students will study United States Government through Kilgore College faculty and receive credit for high school US Government, as well as College Government 2305 (Federal Government).

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## Kilgore College Texas Government

**Course Cod: TXGVT**

**Grade Level: 11-12**

**Prerequisites: College Early Admission**

**Credits: 1/2**

Taught in conjunction with Kilgore College, students will study Texas Government through Kilgore College faculty and receive college credit for State Government 2306.

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## Sociology

**Course Cod: SOC (Online)**

**Grade Level: 9-12**

**Credits: 1/2**

Sociology, an elective course, is an introductory study in social behavior and organization of human society. This course will identify methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world. Students will also learn the importance and role of culture, social structure, socialization, and social change in today's society.

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## Psychology

**Course Cod: PSYCH (Online)**

**Grade Level: 9-12**

**Credits: 1/2**

In Psychology, an elective course, students study the science of behavior and mental processes. Students examine the full scope of the science of psychology such as the historical framework, methodologies, human development, motivation, emotion, sensation, perception, personality development, cognition, learning, intelligence, biological foundations, mental health, and social psychology.

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## Personal Financial Literacy

**Course Cod: PFL (Online)**

**Grade Level: 9-12**

**Credits: 1/2**

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

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## Personal Financial Literacy/Economics

**Course Cod: PFLECO (Online)**

**Grade Level: 9-12**

**Credits: 1/2**

The Personal Financial Literacy and Economics Course emphasizes the economic way of thinking, which serves as a framework for the personal financial decision-making opportunities introduced in the course. Students will demonstrate the ability to anticipate and address financial challenges as these challenges occur over their lifetime. In addition, students are introduced to common economic and personal financial planning terms and concepts. As a result of learning objective concepts and integrating subjective information, students gain the ability to lead productive and financially self-sufficient lives. This course fulfills the graduation requirement for Economics

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## DEPARTMENT: FOREIGN LANGUAGE

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### Spanish 1

**Course Code: SPAN1**

**Grade Level: 9-10**

**Prerequisites: None**

**Credits: 1**

This beginning course focuses on the development of communication skills in the areas of listening, speaking, reading, and writing in controlled situations. Students will learn Spanish pronunciation, acquire basic vocabulary sufficient for simple conversations, and practice basic grammatical structures. There is an emphasis on mastery of correct verb usage in all forms of the present tense. Class participation is essential toward the development of oral proficiency.

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### Honors Spanish 1

**Course Code: SPAN1H**

**Grade Level: 9-10**

**Prerequisites: Strong study skills recommended**

**Credits: 1**

This honors course is designed to develop knowledge of the structure of the Spanish language and encourage interest and understanding of other worlds and cultures through the study of the language. Students learn basic listening, speaking, reading, and writing skills with emphasis placed on enabling them to function in practical situations. Students are also introduced to various aspects of Hispanic culture as illustrated in the text. Students will be expected to use current technologies to create and share content, and all students will maintain an e-portfolio while enrolled in classes within the world language department. This course is taught on the same level as a core academic course. You must take this course if you plan to take Honors Spanish 2.

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### Spanish 2

**Course Code: SPAN2**

**Grade Level: 10-11**

**Prerequisites: Spanish 1**

**Credits: 1**

This course continues to develop students' abilities in listening, speaking, reading, and writing Spanish. Opportunities are provided for the development of grammatical understandings, word attack skills, and vocabulary enrichment.

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## Honors Spanish 2

**Course Code: SPAN2H**

**Prerequisites: Honors Spanish 1**

**Grade Level: 10-11**

**Credits: 1**

Students will learn and use Spanish by speaking, listening, reading and writing. Students are expected to learn vocabulary, verb tenses, participate in conversations and projects, and use current technology to create and share content. Students will maintain an e-portfolio while enrolled in classes within the world language department. This class is cumulative as it builds on the skills acquired in the Spanish I course. The course is taught on the same level as a core course.

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## Honors Spanish 3

**Course Code: SPAN3H**

**Prerequisites: Honors Spanish 2**

**Grade Level: 11-12**

**Credits: 1**

This course will encourage mastery of verb tenses via speaking, reading, writing and listening activities. Students will focus on conversation and storytelling. Students will maintain an e-portfolio, and will be expected to use the latest technologies to create and share content. Students will also focus on the customs and cultures of the Spanish-speaking world as they explore Spanish and Latin American literature and art. This class is cumulative as it builds on the skills acquired in the Honors Spanish 2 course. The course is taught on the same level as a core course.

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## Honors Spanish 4

**Course Code: SPAN4H**

**Prerequisites: Honors Spanish 3**

**Grade Level: 11-12**

**Credits: 1**

This course will encourage mastery of verb tenses via speaking, reading, writing and listening activities. Students will focus on conversation and storytelling. Students will maintain an e-portfolio, and will be expected to use the latest technologies to create and share content. Students will also focus on the customs and cultures of the Spanish-speaking world as they explore Spanish and Latin American literature and art. This class is cumulative as it builds on the skills acquired in the Honors Spanish 3 course. The course is taught on the same level as a core course.

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## Computer Science 1

**Course Code: COSC1**  
**Prerequisites: Algebra 1**

**Grade Level: 10**  
**Credits: 1**

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

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## Computer Science 2

**Course Code: COSC2**  
**Prerequisites: Computer Science 1**

**Grade Level: 11**  
**Credits: 1**

Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.

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```
def add5(x):  
    return x+5  
  
def dotwrite(ast):  
    nodename = getNodeName()  
    label=symbol.sym_name.get(int(ast[0]),ast[0])  
    print '    %s [label="%s" % (nodename, label)  
    if isinstance(ast[1], str):  
        if ast[1].strip():  
            print '    %s';' % ast[1]  
        else:  
            print '    ]'  
    else:  
        print '    ]';  
        children = []  
        for n, child in enumerate(ast[1:]):  
            children.append(dotwrite(child))  
        print '    %s -> {' % nodename  
        for n, child in enumerate(children):  
            print '    %s' % name,
```



## DEPARTMENT: SPEECH AND DEBATE

### Professional Communications

**Course Code: SPCH**

**Grade Level: 9-12**

**Prerequisites: None**

**Credits: 1/2**

This is a course designed primarily to familiarize the student with the importance of effective communication at school, at home, in the community, and in a very competitive marketplace. It is the aim of this class to create confidence when it comes to speaking with others, making formal presentations, interviewing for a job, and preparing to meet the social challenges that await them. Each student will be expected to make anywhere from 3-5 formal speeches during the semester. **This course is required for graduation.**

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### Public Speaking

**Course Code: PUBSPK**

**Grade Level: 9-12**

**Prerequisites: Desire to compete in Debate**

**Credit 1**

This course is designed to teach students the concepts and skills related to preparing and presenting public messages and to analyzing and evaluating the messages of others. Within this process, students gain skills in reading, writing, speaking, listening, and thinking and will examine areas such as invention, organization, style, memory, and delivery. This course will prepare students for the skills needed for Debate. **This course will fulfill the graduation requirement for speech.**

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### Debate 1

**Course Code: DEB1**

**Grade Level: 10-12**

**Prerequisites: Public Speaking**

**Credits: 1**

### Debate 2

**Course Code: DEB2H**

**Grade Level: 11-12**

**Prerequisites: Debate 2**

**Credits: 1**

### Debate 3

**Course Code: DEB3H**

**Grade Level: 12**

**Prerequisites: Debate 3**

**Credits: 1**

The purpose of these courses is to capitalize on speaking and research skills in a competition format. Speech writing and research skills are major components of these courses. ***Extensive work outside of class is necessary for success including at least 4 competitions held on Saturdays.*** Competitions are in a single person and two-person team format. This is a perfect class sequence for students interested in public speaking, political, or legal careers.

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## DEPARTMENT: FINE ARTS

### Theatre Arts 1

**Course Code:** THART1

**Grade Level:** 9-12

**Prerequisites:** None

**Credits:** 1

Theatre Arts 1 incorporates an introduction to theatre, the role of the actor in interpreting dramatic literature, performance theory and techniques, and an overview of the technical elements of theatrical production.

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### Theatre Arts 2

**Course Code:** THART2

**Grade Level:** 10-12

**Prerequisites:** Theater Arts 1

**Credits:** 1

### Theatre Arts 3

**Course Code:** THART3

**Grade Level:** 11-12

**Prerequisites:** Theatre Arts 2

**Credits:** 1

### Theatre Arts 4

**Course Code:** THART4

**Grade Level:** 12

**Prerequisites:** Theatre Arts 3

**Credits:** 1

Theatre Arts 2, 3, and 4 continue the study of the historical evolution and cultural contributions of the theatre, its plays, and its performance and production styles and techniques. Students study basic components of production and apply them through performances in various historic styles and theatrical modes selected from mime, masked theatre, dance drama, puppetry, theatre for children, musical theatre, radio, television, and film.

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## Band 1

**Course Code: BAND1**

**Grade Level: 9-12**

**Prerequisites: Ability to play an instrument and read music**

**Credits: 1**

This course will fulfill the fine arts requirement for graduation. Students participating in Marching Band will receive a ½ credit for P.E.

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## Band 2

**Course Code: BAND2**

**Grade Level: 10-12**

**Prerequisites: Band 1**

**Credits: 1**

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## Band 3

**Course #: BAND3**

**Grade Level: 11-12**

**Prerequisites: Band 2**

**Credits: 1**

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## Band 4

**Course Code: BAND4**

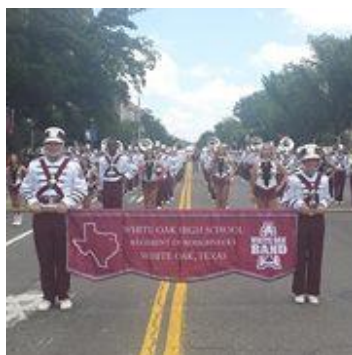
**Grade Level: 12**

**Prerequisites: Band 3**

**Credits: 1**

Through large groups, small groups, and individual instruction, band students are instructed in the following: mental and physical discipline, citizenship through group endeavor, physical conditioning, cultural growth, music theory, proper instrumental technique, creative self-expression, and critical listening for the purpose of making musical value judgments. Band activities include matching and playing, sight-reading, solo work, small ensemble playing, development of individual instrumental technique, concert performance, content competitions, and public appearances (including parades, football games, recitals, and concerts).

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## JV Choir 1

**Course Code:** CHRJV1

**Grade Level:** 9-12

**Prerequisites:** Middle School Choir or

**Credits:** 1

audition of voice placement and sight-reading ability.

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## JV Choir 2

**Course Code:** CHRJV2

**Grade Level:** 10-12

**Prerequisites:** JV Choir 1 or

**Credits:** 1

audition of voice placement and sight-reading ability.

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## JV Choir 3

**Course Code:** CHRJV3

**Grade Level:** 11-12

**Prerequisites:** JV Choir 2 or

**Credits:** 1

audition of voice placement and sight-reading ability.

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## JV Choir 4

**Course Code:** CHRJV4

**Grade Level:** 12

**Prerequisites:** JV Choir 3 or

**Credits:** 1

Audition of voice placement and sight-reading ability.

The purpose of this course is to give the singer the opportunity to develop their singing instrument to its fullest potential. Daily instruction in 3-4 part mixed choir music, sight-reading, solo work, vocal technique and concert performance. All performances will be required. Opportunities will be given to earn individual honors by participation in auditions for the All-Region and Texas All-State Choir and UIL honors at Region and/or State Solo and Ensemble contest, as well as UIL Concert/Sight-Reading contest.

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## Varsity Choir 1

**Course Code:** CHRV1

**Grade Level:** 9-12

**Prerequisites:** Middle School Choir or

**Credits:** 1

**Audition of voice placement and sight-reading ability.**

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## Varsity Choir 2

**Course Code:** CHRV2

**Grade Level:** 10-12

**Prerequisites:** JV/Varsity Choir or

**Credits:** 1

**Audition of voice placement and sight-reading ability.**

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## Varsity Choir 3

**Course Code:** CHRV3

**Grade Level:** 11-12

**Prerequisites:** JV/Varsity Choir or

**Credits:** 1

**Audition of voice placement and sight-reading ability.**

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## Varsity Choir 4

**Course Code:** CHRV4

**Grade Level:** 12

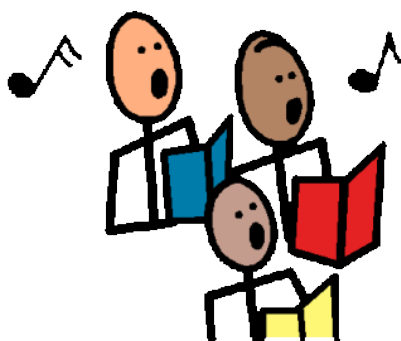
**Prerequisites:** JV/Varsity Choir or

**Credits:** 1

**Audition of voice placement and sight-reading ability.**

The purpose of this choir is to give vocally talented young men and women the opportunity to realize their potential as individual vocalists and large group contributors. All performances will be required. Students will receive daily instruction in 4 to 8-part choral singing, sight-reading, solo work, vocal technique and concert performance. Students will be given the opportunity to earn individual honors by participating in auditions for All-Region, and Texas All-State Choirs, UIL honors at Region and/or State level Solo and Ensemble contests, as well as the UIL Concert/Sight-Reading contest.

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## Art 1

**Course Code: ART1**

**Grade Level: 9-12**

**Prerequisites: None**

**Credits: 1**

This course is designed to introduce the student to the basic principles of art (line, value, texture, color, form, and space). It offers the opportunity for the student to explore techniques, media, and tools in designing, drawing, painting, printmaking, and some crafts. Emphasis is placed on creativity, expression, originality, and development of an aesthetic judgment of art appreciation through art history.

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## Art 2

**Course Code: ART2**

**Grade Level: 10-12**

**Prerequisites: Art 1 and Participation in Art Competition**

**Credits: 1**

Art 2 offers a wide variety of drawing experiences that include: contour, gesture, figure, landscape, abstract, concentrating on modeling and shading. The media are charcoal, pastel, pencil, ink, washes, and mixed media. Painting includes watercolor and acrylic techniques with emphasis on color harmonies and composition (balance, unity, variety, emphasis, rhythm, movement). Silk screening and sculpture will be covered. Terminology and art vocabulary are studied in this course. Art 2 students are encouraged to participate in VASE competition.

---

## Art 3

**Course Code: ART3**

**Grade Level: 11-12**

**Prerequisites: Art 2**

**Credits: 1**

This is an advanced art class with an emphasis on painting and three dimensional art projects. The painting media consists of acrylic, watercolor, and mixed media on various surfaces. The emphasis is developing the student's "individual style". The students become acquainted with different styles and media and are encouraged to experiment, invent, and transfer learning from one medium to another. The three dimensional projects are collage, clay sculpture, plaster projects, and found objects. Students are encouraged to compete in VASE competition.

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## Art 4

**Course Code: ART4**

**Grade Level: 12**

**Prerequisites: Art 3**

**Credits: 1**

Art 4 is an advanced art class with an emphasis on painting and three dimensional art projects. The painting media consists of acrylic, watercolor, and mixed media on various surfaces. The emphasis is developing the student's "individual style". The students become acquainted with different styles and media and are encouraged to experiment, invent, and transfer learning from one medium to another. The three dimensional projects are collage, clay sculpture, plaster projects, and found objects. Students are encouraged to compete in State VASE competitions.

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## DEPARTMENT: JOURNALISM / Graphic Design

### Journalism / Principles of Arts A/V

**Course Code:** JRN1

**Grade Level:** 8

**Prerequisites:** Application/Interview

**Credits:** 1

Journalism is an overview of the field of journalism and its effect on America's past, present, and future. Students will cover topics such as mass media, the role of a journalist, advertising, production of school publications and all types of journalistic writing. Students will do some newspaper production and photography. This is a writing intensive course.

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### Journalism 1 / Digital Media

**Course Code:** J1

**Grade Level:** 9-10

**Prerequisites:** Application/Interview/ Journalism in 8<sup>th</sup> Grade

**Credits:** 1

### Journalism 2 / Graphic Design 1

**Course Code:** J2

**Grade Level:** 10-12

**Prerequisites:** J1+Application and Interview

**Credits:** 1

### Journalism 3H – Graphic Design 2

**Course Code:** J3H

**Grade Level:** 11

**Prerequisites:** J2 and Application/Interview/Instructor Approval

**Credits:** 1

### Journalism 4H– Digital Arts and Animation

**Course Code:** J4H

**Grade Level:** 11

**Prerequisites:** J3H and Application/Interview/Instructor Approval

**Credits:** 1

Students will gain practical experience in the elements and processes used in producing his/her high school's newspaper and yearbook. Students will handle all reporting, editing, photography, layout, advertising, and sales. Students must be willing to attend evening events and to spend additional time to ensure that assignments are completed in time to meet deadlines. Final selection of staff is based on grades, citizenship and recommendations. Students produce the school yearbook directed by a student editor and supervised by the adviser. They choose the cover, theme and make decisions on coverage of school activities/events featured in the yearbook. Staff members learn layout and design techniques and programs as well as overall graphic design appeal. There are many opportunities for photographers as well. Deadlines and budget requirements are also reinforced. Students work together as a staff in an informal, production oriented setting. **Students must be willing to work before or after school and during the summer.** They must be dependable, reliable, trustworthy and responsible in order to meet deadlines. Absences must be minimal. This class requires hard work and dedication for student success.

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## DEPARTMENT: HEALTH, PHYSICAL EDUCATION AND ATHLETICS

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### Health

**Course Code: HLTH1**

**Grade Level: 9-12**

**Prerequisites: None**

**Credits: 1/2**

Students will acquire the knowledge to develop or maintain a healthy mind and body, and how to measure and or evaluate their own health levels. They will learn what is required to have a healthy life-style and maintain health throughout adulthood. Areas to be focused on are fitness, nutrition, hygiene, first aid, safety, tobacco, drugs, alcohol, and current health issues. This is a local requirement for graduation.

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### Boys PE

**Course Code: PE1B**

**Grade Level: 9-12**

**Prerequisites: None**

**Credits: 1**

Students will engage in lifetime sports and cardiovascular fitness development. Flexibility exercises will be done on a daily basis.

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### Girls PE

**Course Code: PE1G**

**Grade Level: 9-12**

**Prerequisites: None**

**Credits: 1**

Students will engage in lifetime sports and cardiovascular fitness development. Flexibility exercises will be done on a daily basis.

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### Boys Athletics 1 / 2 / 3 / 4 (Football, Basketball, Baseball)

**Course Code: ATH1B / ATH2B / ATH3B / ATH4B**

**Grade Level: 9-12**

**Prerequisites: None**

**Credits: 1**

Students will engage in lifetime sports and cardiovascular fitness development. Only Football and Basketball and Baseball participants will take this course all year. **Cross Country, Track, Tennis, Powerlifting, and Golf are taught before/after school and do not require enrollment in athletics class.**

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### Girls' Athletics 1 / 2 / 3 / 4 (Volleyball, Basketball, Softball)

**Course Code: ATH1G / ATH2G / ATH3G / ATH4G**

**Grade Level: 9-12**

**Prerequisites: None**

**Credits: 1**

Students will engage in lifetime sports and cardiovascular fitness development. Only Volleyball, Softball and Basketball participants will take this course all year. **Cross Country, Track, Tennis, Powerlifting, and Golf are taught after school and do not require enrollment in athletics class.**

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## Agriculture, Food and Natural Resources Cluster

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

### RELATED CAREERS

<u>Occupations</u>	<u>Median Wage</u>	<u>Annual Openings</u>	<u>% Growth</u>
Farmers, Ranchers, and Other Agricultural Managers	\$59,134	405	9%
Buyers and Purchasing Agents, Farm Products	\$46,488	102	20%
Animal Breeders	\$39,135	28	9%
Veterinarians	\$93,496	294	24%
Zoologists and Wildlife Biologists	\$67,309	45	32%
Mobile Heavy Equipment Mechanics	\$47,299	1,627	16%
Agricultural Engineers	\$64,792	9	13%
Soil and Plant Scientists	\$54,662	116	21%
Tree Trimmers and Pruners	\$32,240	589	14%
Welders, Cutters, Solderers, and Brazers	\$41,350	6,171	9%
Welding Soldering and Brazing Machine Setters, Operators	\$40,040	280	9%
Mechanical Engineering Technicians	\$57,117	453	9%

### **Agriculture, Food and Natural Resources Programs of Study**

#### **Business and Industry Endorsement**

	<b>Pathway</b>	<b>Level 1 Course</b>	<b>Level 2 Course</b>	<b>Level 3 Course</b>	<b>Level 4 Course</b>
<b>Agriculture, Food, and Natural Resources</b>	<b>Animal Science</b>	Principles of Agriculture, Food and Natural Resources <b>(PRNAG)</b> (1.0)	Livestock Production <b>(LIVEST)</b> (1.0)	Veterinary Medical Applications <b>(VETMED)</b> (1.0)	Advanced Animal Science <b>(ANIMSC)</b> (1.0) <i>and/or</i> Practicum in Ag (Animal/Vet Tech) <b>(PRCANI)</b> (2.0)
	<b>Plant Science Floral Design</b>	Principles of Agriculture, Food and Natural Resources <b>(PRNAG)</b> (1.0)	Floral Design <b>(FLODES)</b> (1.0)	Advanced Floral Design <b>(ADVFLR)</b> (1.0)	Advanced Plant and Soil Science <b>(PLANT)</b> (1.0) and/or Practicum in Floral Design <b>(PRCFLO)</b> (2.0)
	<b>Plant Science Horticulture</b>	Principles of Agriculture, Food and Natural Resources <b>(PRNAG)</b> (1.0)	Horticultural Science <b>(HORTSC)</b> (1.0)	Advanced Plant and Soil Science <b>(PLANT)</b> (1.0)	Practicum in Ag (Horticulture) <b>(PRCFLO)</b> (2.0)
	<b>Applied Agricultural Engineering (Welding)</b>	Principles of Agriculture, Food and Natural Resources <b>(PRNAG)</b> (1.0)	Agricultural Mechanics and Metal Technologies <b>(AGMECH)</b> (1.0)	Agricultural Structures Design and Fabrication <b>(AGSTR)</b> (1.0)	Practicum in Agriculture, Food, and Natural Resources (Welding) <b>(PRCWLD)</b> (2.0)

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## Principles of Agriculture, Food, and Natural Resources

**Course Code: PRNAG**

**Grade Level: 9-10**

**Prerequisites: None**

**Credits: 1**

This course prepares students for careers in the broad field of agriculture, food and natural resources. Students will develop knowledge and skills regarding career opportunities, personal development, globalization, entry requirements and industry details, practices and expectations.

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## Livestock Production

**Course Code: LIVEST**

**Grade Level: 11-12**

**Prerequisites: Principles of Ag**

**Credits: 1**

Want to learn where your food comes from? Want to raise your own animal? We will show you how. Livestock Production is a course designed to prepare students for a career in the field of animal science. Students will learn employability characteristics, technical skills dealing with livestock and business operating plans. Within these areas, students will learn anatomy and physiology, feeding, breeding, and facility design and management. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

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## Advanced Animal Science

**Course Code: ANIMSC**

**Grade Level: 12**

**Prerequisites: Biology and Chemistry, and**

**Credits: 1**

**Algebra 1, Geometry and**

**One Agricultural course preferably Livestock.**

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. **This course satisfies a science credit requirement.**

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## Veterinary Medical Applications

**Course Code: VETMED**

**Grade Level: 11-12**

**Prerequisites: Animal Science or Livestock Production**

**Credits: 1**

Want to learn where your food comes from? Want to raise your own animal? We will show you how. Livestock Production is a course designed to prepare students for a career in the field of animal science. Students will learn employability characteristics, technical skills dealing with livestock and business operating plans. Within these areas, students will learn anatomy and physiology, feeding, breeding, and facility design and management. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

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## Floral Design

**Course Code: FLODES**

**Prerequisites: Principles of Ag**

**Grade Level: 10-11**

**Credits: 1**

This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. **This course satisfies a fine arts credit requirement for students in an Agricultural Program of Study.**

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## Advanced Floral Design

**Course Code: ADFLDS**

**Prerequisites: Floral Design**

**Grade Level: 11-12**

**Credits: 1**

This course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event.

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## Horticulture Science

**Course Code: HORTSC**

**Prerequisites: Principles of Ag**

**Grade Level: 11-12**

**Credits 1**

This course explores careers that involve growing, caring for, and developing a market for various plants and flowers. Learn the basic principles of plant production, greenhouse management, and landscaping. Horticulture Science is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production.



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## Advanced Plant and Soil Science

**Course Code: PLTSC**

**Prerequisites: Biology, Chemistry or Physics and One Agriculture Class**

**Grade Level: 11 – 12**

**Credits: 1**

This course provides a way of learning about the natural world through plant and soil science realizing that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. This science course is designed to prepare students for careers in the food and fiber industry. **This course satisfies a science credit requirement.**

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## Agricultural Structures Design and Fabrication

**Course Code: AGSTR**

**Grade Level: 11-12**

**Prerequisites: Principles of Agriculture**

**Credits: 1**

Ag Structures provides the knowledge, skills, and technologies required for employment in metal technology systems. This course will introduce welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. It is designed for the beginner with little or no welding experience who is interested in pursuing a course of study that can lead to an American Welding Society (AWS) entry level certification.

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## Agricultural Equipment Design and Fabrication

**Course Code: AGEQU**

**Grade Level: 11 – 12**

**Prerequisites: Principles of Agriculture**

**Credits: 1**

In Agricultural Equipment Design and Fabrication students acquire knowledge and skills related to the design and fabrication of agricultural equipment. Welding will be emphasized. AWS Sense certification will be tested.

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## Practicum in Welding

**Course Code: PRCAG**

**Grade Level: 12**

**Prerequisites: 3 courses in Agriculture**

**Credits: 2**

Practicum in Agriculture will build on the knowledge and skills developed in earlier Agriculture classes. Students will develop advanced concepts and skills as related to personal and career development. This advanced program will prepare the serious student for entry level certification testing. Students will complete individual projects to demonstrate industry competencies. Students may take any one of 4 strands: Animal/Vet Tech, Welding, Horticulture, or Floral Dsn.

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<p><b>CTE Completers must complete / pass / receive credit in 3 or more CTE courses for at least 4 credits including 1 level 3 or level 4 course within the same program of study.</b></p>
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## Arts, A/V and Communications

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

### RELATED CAREERS

<u>Occupations</u>	<u>Median Wage</u>	<u>Annual Openings</u>	<u>% Growth</u>
Sound Engineering Technicians	\$39,562	79	27%
Camera Operators, Television, Video and Motion Pictures	\$50,024	129	9%
Audio Video Equipment Technicians	\$40,581	757	29%
Film and Video Editors	\$47,382	118	23%
Graphic Designers	\$44,824	1,433	15%
Multimedia Artists and Animators	\$67,392	186	21%

### Arts, Audio Video Technology, and Communications Programs of Study

#### Business and Industry Endorsement

	Pathway	Level 1 Course	Level 2 Course	Level 3 Course	Level 4 Course
Arts, Audio/Visual Technology and	Digital Communications	Principles of Arts, A/V Technology, and Communications (PRNAV) (1.0)	Digital Audio Technology 1 (1.0) (RADIO1) (Radio Broadcasting 1)	Audio/Video Production 1 (AVPRO1)(1.0)	Audio/Video Production 2 (AVPRO2)(1.0)
	Design and Multimedia Arts	Principles of Arts, A/V Technology and Communications (PRNAV) (1.0)	Animation 1 (ANIMA1)(1.0)	Animation 2 (ANIMA2)(1.0)	Animation 3 – 3D Modeling and Animation (ANIMA3)(1.0)
	Print Shop	Graphic Design (GRAPHD) (1.0)	Printing and Imaging I (PRINT1)	Printing and Imaging 2 (PRINT2) (1.0)	Practicum in Printing and Imaging (PRCPRT)(2)

**CTE Completers must complete / pass / receive credit in 3 or more CTE courses for at least 4 credits including 1 level 3 or level 4 course within the same program of study.**



## **Arts, Audio Video and Communications**

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### **Principles of Arts, A/V Technology and Communications**

**Course Code: PRNAV**

**Grade Level: 9-12**

**Prerequisites: none**

**Credits: 1**

This course will introduce students to careers in audio/video production, graphic design, and video game development in the Arts, Audio/Video Technology and Communications career cluster. Students will develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills and educational requirements for those careers.

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### **Audio/Video Production 1**

**Course Code: AVPRO1**

**Grade Level: 10-12**

**Prerequisites: Principles of Arts, A/V**

**Credits: 1**

Students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities. The students will use GarageBand to capture and edit audio and use Final Cut Pro/video equipment (cameras, professional lighting, audio equipment, green screen, etc.) to capture and edit video footage. The students will also continue to use a blog to create and/or update their digital portfolio.

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### **Audio/Video Production 2**

**Course Code: AVPRO2**

**Grade Level: 11-12**

**Prerequisites: A/V Production 1**

**Credits: 1**

This course refines the Audio/Video and multimedia production skills to prepare the student for post-secondary education or entry level employment in the media technology industry. Students work individually and in groups to create video projects utilizing editing equipment and software. Students will also be responsible for the production of the White Oak High School Video Announcements.

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### **Digital Audio Technology 1 – (Radio Broadcasting 1)**

**Course Code: RADIO1**

**Grade Level: 10-12**

**Prerequisites: Professional Communications**

**Credits: 1**

This is an introductory course exploring the Radio Broadcasting industry. Students will study several topics including the history of radio, FCC rules and regulations, audio editing, commercial production and on-air broadcasting. Each student, individually or as a group, will have an opportunity to write, edit and produce his or her own radio show to be aired on the district's radio station --Roughneck Radio. The lab portion includes the use of basic audio equipment and mixers to produce and master professional quality audio tracks suitable for broadcast.

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## Animation 1

**Course Code: ANIMA1**

**Grade Level: 10-12**

**Prerequisites: Principles of Arts, A/V**

**Credits: 1**

This course is for the creative student wanting to explore computer animation. Animation is a growing art form fulfilling a need in multiple careers such as entertainment, advertising, medical and legal fields and other areas wanting a strong visual impact. Design principles of animation will be used for creating storyboards to develop characters and story lines. Sound will be imported into animation. Multiple file formats and forms of animation will be discussed and explored including 2D and 3D animation.

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## Animation 2

**Course Code: ANIMA2**

**Grade Level: 12**

**Prerequisites: 3 Courses in Arts and A/V**

**Credits: 2**

This course is for the creative student wanting to explore computer animation and graphic design. This is a capstone course which will enable students to work in teams to develop projects using all the tools they have learned in previous A/V courses.

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## Animation 3

**Course Code: ANIMA3**

**Grade Level: 12**

**Prerequisites: Animation 2**

**Credits: 1**

This course explores computer images and animations created with digital imaging software. Digital Art and Animation has applications in many careers, including graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, and the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

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## Graphic Design

**Course Code: GRAPHD**

**Grade Level: 9-10**

**Prerequisites: NONE**

**Credits: 1**

This course is for the creative student wanting to develop skills needed for success in the Arts, Audio/Video Technology, and Communications career field specializing in Printing and Imaging on various materials and projects. Students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

---

## Print Shop 1

**Course Code: PRINT1**

**Grade Level: 10-11**

**Prerequisites: Graphic Design**

**Credits: 2**

The Printing and Imaging regional program of study introduces CTE learners to knowledge and skills related to providing printing and imaging services. CTE learners may learn about or practice the foundations of business management, customer service, graphic design, graphic production and large format printing.

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## Print Shop 2

**Course Code: PRINT2**

**Grade Level: 12**

**Prerequisites: PRINT1**

**Credits: 1**

The course builds on the skills gained in Print Shop 1, learners will use hands-on skills related to providing printing and imaging services. Learners will learn about or practice the foundations of business management, customer service, graphic design, graphic production and large format printing.

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## Practicum in Print Shop

**Course Code: PRCprt**

**Grade Level: 12**

**Prerequisites: PRINT2**

**Credits: 2**

The course builds on the skills gained in Print Shop 2, learners will use hands-on skills related to providing printing and imaging services. Students will be expected to develop an advanced technical understanding of the printing industry with a focus on finishing customer-based projects.

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**Business,  
Marketing,  
and Finance**

## **Business, Marketing, and Finance**

Business, Marketing, and Finance careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.

### **RELATED CAREERS**

<u><b>Occupations</b></u>	<u><b>Median Wage</b></u>	<u><b>Annual Openings</b></u>	<u><b>% Growth</b></u>
Accountants and Auditors	\$71,469	14,436	22%
Loan Officers	\$68,598	2,419	19%
Personal Financial Advisors	\$83,965	1,861	52%
Administrative Service Managers	\$96,138	2,277	21%
Insurance Underwriters	\$66,206	594	14%
Management Analysts	\$87,651	4,706	32%
General and Operations Managers	\$57,616	18,679	20%
Operations Research Analysts	\$78,083	1,128	38%
Supervisors of Administrative Support Workers	\$57,616	14,982	20%

### **Business, Marketing and Finance Programs of Study**

#### **Business and Industry Endorsement**

	<b>Pathway</b>	<b>Level 1 Course</b>	<b>Level 2 Course</b>	<b>Level 3 Course</b>	<b>Level 4 Course</b>
<b>Business, Marketing, and Finance</b>	<b>Business Management and Administration</b>	Principles of Business, Marketing, and Finance <b>(PRNBUS)</b> (1.0)	Business Information Management 1 <b>(BIM1)</b> (1.0)	Business Information Management 2 <b>(BIM2)</b> (1.0)	Business Management <b>(BUSMGT)</b> (1.0)
	<b>Accounting and Financial Services</b>	Principles of Business, Marketing, and Finance <b>(PRNBUS)</b> (1.0)	Accounting 1 <b>(ACCT1)</b> (1.0)	Accounting 2 <b>(ACCT2)</b> (1.0)	Accounting 3 – Financial Analysis <b>(ACCT3)</b> (1.0)

**CTE Completers must complete / pass / receive credit in 3 or more CTE courses for at least 4 credits including 1 level 3 or level 4 course within the same program of study.**

## **Business, Marketing and Finance**

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### **Principles of Business, Marketing and Finance**

**Course Code: PRNBUS**

**Grade Level: 9**

**Prerequisites: None**

**Credits: 1**

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

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### **Business Information Management 1**

**Course Code: BIM1**

**Grade Level: 9-10**

**Prerequisites: none**

**Credits: 1**

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

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### **Business Information Management 2**

**Course Code: BIM2**

**Grade Level: 10-11**

**Prerequisites: Business Information Management 1**

**Credits: 1**

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

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### **Business Management**

**Course Code: BUSMGT**

**Grade Level: 12**

**Prerequisites: Business Information Management 2**

**Credits: 1**

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.

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## Accounting 1

**Course Code: ACCT1**

**Grade Level: 10 - 12**

**Prerequisites: Prn of Business, Mktg, and Finance**

**Credits: 1**

Do you like working with numbers? Students will explore the field of accounting, as well as the economic, financial, technological, international, social, legal, and ethical issues related to the maintenance of financial records. Students will record, classify, summarize and analyze accounting information in order to communicate it effectively to others. Students will learn to formulate and interpret financial information used in management decision making. Students will learn these processes both on paper and electronically.

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## Accounting 2

**Course Code: ACCT2**

**Grade Level: 11 - 12**

**Prerequisites: ACCT1**

**Credits: 1**

Students will continue the investigation of the field of accounting, how it is impacted by industry standards as well as economic, financial, technological, international, social, legal and ethical factors. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tool, spreadsheet software, and accounting systems in real-world situations to maintain monitor, control, and plan the use of financial resources. **This course is strongly recommended for a student planning to major in business during college.**

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## Accounting 3 – Financial Analysis

**Course Code: ACCT3**

**Grade Level: 11 - 12**

**Prerequisites: ACCT2**

**Credits: 1**

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

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## Education & Training

### Education and Training

Planning, managing and providing education and training services, and related learning support services.

#### RELATED CAREERS

<u>Occupations</u>	<u>Median Wage</u>	<u>Annual Openings</u>	<u>% Growth</u>
Kindergarten Teachers, except Special Education	\$53,310	1,848	17%
Preschool Teachers	\$27,851	4,330	17%
Special Education Teachers, Preschool	\$55,670	148	27%
Elementary School Teachers	\$54,140	13,121	16%
Education Administrators, Elementary and Secondary School	\$79,830	2,407	16%
Adult Basic and Secondary Education and Literacy Instructors	\$48,069	862	17%
Middle School Teachers, Except Special and Career/Technical Education	\$54,360	6,407	15%
Career and Technical Education Teachers, Secondary School	\$56,360	719	9%
Special Education Teachers, Secondary School	\$56,720	980	18%

### Education and Training Program of Study Public Services Endorsement

	Pathway	Level 1 Course	Level 2 Course	Level 3 Course	Level 4 Course
Education and Training	Teaching and Training	Principles of Education and Training ( <b>PRNED</b> )(1.0)	Human Growth and Development ( <b>HGROW</b> ) (1.0)	Instructional Practices ( <b>IPET</b> ) (2.0)	Practicum in Education and Training ( <b>PET</b> ) (2.0)

**CTE Completers must complete / pass / receive credit in 3 or more CTE courses for at least 4 credits including 1 level 3 or level 4 course within the same program of study.**





## **Education and Training**

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### **Principles of Education and Training**

**Course Code: PRNED**

**Grade Level: 9-10**

**Prerequisites: None**

**Credits: 1**

The course will introduce learners to various careers available within the Education and Training career cluster. Students use self-knowledge, educational, and career information to analyze various careers in education. Students will develop a graduation plan for a specific career choice in the student's interest.

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### **Human Growth and Development**

**Course Code: HGROW**

**Grade Level: 9-10**

**Prerequisites: Principles of Education and Training**

**Credits: 1**

The course will allow student to examine the human development across the lifespan with emphasis on research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones.

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### **Instructional Practices**

**Course Code: IPET**

**Grade Level: 11-12**

**Prerequisites: Principles of Education and Training**

**Credits: 2**

This course is a field-based internship which provides students background knowledge of child and adolescent development principles as well as effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with school-aged students.

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### **Practicum in Education and Training**

**Course Code: PET**

**Grade Level: 12**

**Prerequisites: Instructional Practices**

**Credits 2**

This course is a is a field-based internship which provides students additional opportunities to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers.

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Health Science

## Health Science

Planning, managing, and providing therapeutic services, diagnostic services, health information, support services, and biotechnology research and development.

### RELATED CAREERS

<u>Occupations</u>	<u>Median Wage</u>	<u>Annual Openings</u>	<u>% Growth</u>
Athletic Trainers	\$53,450	215	22%
Exercise Physiologists	\$41,662	33	33%
Coaches and Scouts	\$40,010	2,133	23%
Dietitians and Nutritionists	\$57,762	428	24%
Recreational Therapists	\$45,906	74	24%
Medical Records and Health Information Technicians	\$35,922	1,588	24%
Medical and Health Service Managers	\$93,995	2,562	29%
Billing and Posting Clerks	\$35,485	5,775	25%
Medical Sonographers	\$69,909	495	35%
Phlebotomists	\$30,597	1,442	36%
MRI Technologists	\$68,661	217	21%
Medical Assistants	\$25,598	8,862	30%
Surgical Technologists	\$45,032	1,150	20%
Dental Hygienists	\$73,507	1,353	38%
Physicians and Surgeons	\$213,071	1,151	30%
Dental Assistants	\$34,840	4,422	31%
Speech Pathologists	\$73,070	1,068	25%
Physical Therapy Assistants	\$70,200	1,268	44%
Licensed Vocational Nurses	\$45,178	7,186	21%
Registered Nurses	\$68,682	17,493	26%
Nurse Practitioners	\$107,827	977	50%

### Health Science Program of Study

#### Public Services Endorsement

	Pathway	Level 1 Course	Level 2 Course	Level 3 Course	Level 4 Course
Health Science	Healthcare Therapeutic	Principles of Health Science (PRNHSC) (1.0)	Medical Terminology (MEDTRM) (1.0)	Anatomy and Physiology (ANAT) (1.0)	Practicum in Health Science (PRCHSC) (2.0)

**CTE Completers must complete / pass / receive credit in 3 or more CTE courses for at least 4 credits including 1 level 3 or level 4 course within the same program of study.**

## Health Science

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### Principles of Health Science

**Course Code: PRNHSC**

**Grade Level: 9**

**Prerequisites: None**

**Credits: 1**

The course will introduce learners to various careers available within the Health Science career cluster. Students will be provided an overview of therapeutic, diagnostic, health informatics, support services and biotechnology research systems of the health care industry.

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### Medical Terminology

**Course Code: MEDTRM**

**Grade Level: 10**

**Prerequisites: Principles of Health Science**

**Credits: 1**

The course will allow student to examine the human development across the lifespan with emphasis on research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones.

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### Honors Anatomy & Physiology

**Course Code: ANAT**

**Grade Level: 11-12**

**Prerequisites: Chemistry and/or Physics and strong science/study skills**

**Credits: 1**

This honors course is a study of the anatomy and physiology of the human body. Students are required to locate, identify, and describe functions and structures of the organ systems. They will participate in laboratory investigations and dissections exploring the organ systems and related epidemiological issues of human disease. Students will use critical thinking, scientific reasoning, and problem solving to explore the human body as well as current issues in the medical fields. This is a very rigorous course and students should possess excellent study and laboratory skills.

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### Practicum in Health Science

**Course Code: PRCHSC**

**Grade Level: 12**

**Prerequisites: Anatomy and Physiology and 2 other Health Science Courses**

**Credits: 2**

This course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences will be taught by the school nurse in a classroom and/or healthcare setting to use the skills learned in previous classes with additional hands-on skills.

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## **Hospitality and Tourism**

Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.

### **RELATED CAREERS**

<u><b>Occupations</b></u>	<u><b>Median Wage</b></u>	<u><b>Annual Openings</b></u>	<u><b>% Growth</b></u>
Food and Beverage Managers	\$55,619	1,561	28%
Chef and Head Cooks	\$43,285	1,366	25%
Food Science Technicians	\$34,382	236	11%
Meeting and Event Planners	\$47,446	1,083	21%
Advertising and Promotions Managers	\$94,515	164	20%

### **Culinary Arts Program of Study** **Business and Industry Endorsement**

	<b>Pathway</b>	<b>Level 1 Course</b>	<b>Level 2 Course</b>	<b>Level 3 Course</b>	<b>Level 4 Course</b>
<b>Hospitality and Tourism</b>	<b>Culinary Arts</b>	Introduction to Culinary Arts ( <b>INCUL</b> ) (1.0) (This course not required for this pathway)	Culinary Arts ( <b>CULART</b> ) (2.0)	Advanced Culinary Arts ( <b>CULAR2</b> ) (2.0)	Practicum in Culinary Arts ( <b>PRCCUL</b> ) (2.0)



**CTE Completers must complete / pass / receive credit in 3 or more CTE courses for at least 4 credits including 1 level 3 or level 4 course within the same program of study.**

## Hospitality and Tourism

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### Introduction to Culinary Arts

**Course Code: INCUL**

**Grade Level: 9-10**

**Prerequisites: none**

**Credits: 1**

The course emphasizes the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide sight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This course is for students interested in pursuing a career in the food service industry.

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### Culinary Arts

**Course Code: CULART**

**Grade Level: 10-11**

**Prerequisites: none**

**Credits: 2**

The course begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques.

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### Advanced Culinary Arts 2

**Course Code: CULAR2**

**Grade Level: 11**

**Prerequisites: Culinary Arts 1 and ServSafe Certification**

**Credits: 2**

This course will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standard to prepare students for success in higher education certifications or immediate employment.

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### Practicum in Culinary Arts

**Course Code: PRCCUL**

**Grade Level: 12**

**Prerequisites: Culinary Arts 1**

**Credits: 2**

This course will extend content and enhance skills in Culinary Arts by in-depth hands-on instruction of industry-driven standard to prepare students for success in higher education certifications or immediate employment.

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# Science, Technology, Engineering and Math

## Computer Science

Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.

### RELATED CAREERS

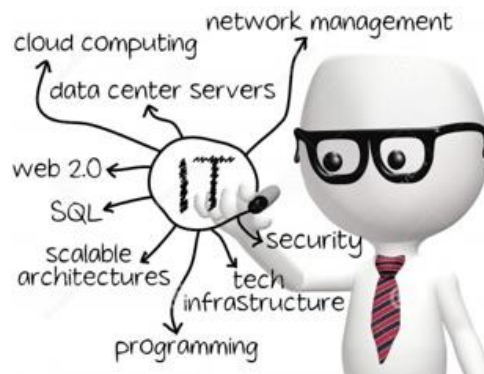
<u>Occupations</u>	<u>Median Wage</u>	<u>Annual Openings</u>	<u>% Growth</u>
Software Developer, Systems Software	\$103,334	2,985	25%
Software Developers, Applications	\$104,499	6,311	30%
Computer Programmers	\$79,893	1,454	9%
Network and Computer System Administrators	\$82,597	2,814	19%
Computer Systems Analyst	\$87,568	5,937	29%

### Computer Science Program of Study

#### STEM Endorsement

	Pathway	Level 1 Course	Level 2 Course	Level 3 Course	Level 4 Course
Computer Science	Programming and Software Development	Fundamentals of Computer Science (FNCOSC) (1.0)	Computer Science 1 (COSC1) (1.0)	Computer Science 2 (COSC2) (1.0)	Computer Science 3 (COSC3) (1.0)

**CTE Completers must complete / pass / receive credit in 3 or more CTE courses for at least 4 credits including 1 level 3 or level 4 course within the same program of study.**



# Computer Science

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## Fundamentals of Computer Science

**Course Code: FNCOSC**

**Grade Level: 9**

**Prerequisites: none**

**Credits: 1**

Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

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## Computer Science 1

**Course Code: COSC1**

**Grade Level: 10-12**

**Prerequisites: Algebra 1**

**Credits: 1**

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

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## Computer Science 2

**Course Code: COSC2**

**Grade Level: 11-12**

**Prerequisites: Computer Science 1**

**Credits: 1**

Students will expand their knowledge of structured programming techniques and concepts appropriate to addressing complex problems and developing comprehensive programming solutions. Students will apply technical skills to address business applications of emerging technologies.

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## Computer Science 3

**Course Code: COSC3**

**Grade Level: 12**

**Prerequisites: COSC2**

**Credits: 1**

Students will teach JAVA programming language as it is applied to the World Wide Web. It covers Java applets, applications, API, graphics, animation and threads. It also explores Java object-oriented techniques and database connectivity.

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# Fire Fighter

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## Fire Fighter I

**Course Code: FIRE**

**Prerequisites: none**

**Grade Level: 12**

**Credits: 2**

Firefighter I introduces students to firefighter safety and development. Students will analyze Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety. This course will be taught in conjunction with the White Oak Fire Department and Kilgore College. Students who complete the course may attend a summer workshop and acquire their Fire Fighter Certification. This entitles students to a discount for tuition in college.

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