

Northwest High School

Byron Nelson High School



Course Selection Guide

2009-2010



To the Students of Northwest Independent School District:

The future you face is incredibly bright and extremely exciting! The decisions you make over the next four years will guide you in ways that many of us can only imagine. Every decision you make in high school will indeed be important.

As educators, our challenge is to provide you with the courses you will need to assist you in preparing for that future. The courses you will choose from will include different types of teaching and different classroom resources from those your parents experienced in high school. Technology will be available in new and different ways. As you review the choices in this course guide, you will find some courses that sound quite familiar. There will be other courses that will appear unfamiliar and unique, but will be extremely important depending on the field of study you may choose to pursue. The purpose of this catalog is to assist you in achieving your goals. Our goal is to prepare you to be college or career ready. It is your challenge to determine that next step.

The way to achieve your goals is to begin with a plan. This catalog will assist you in creating your individual high school plan. As you review this catalog, you should carefully consider the courses you will need to achieve your goal. If your goal is to enter college, you should select rigorous courses that prepare you for college success. If your goal is to enter a career, you will also have exciting options - including those in the Career and Technology section of this catalog. Your choices are varied and exciting!

In Northwest ISD, we challenge ourselves to see our vision of becoming the “best and most sought after school district in Texas” realized. We are committed to providing an educational program that will help us achieve that vision. We know that this catalog will be useful to you and your parents as you plan for the future. The Northwest ISD educational community is committed to helping you achieve your dreams.

Sincerely,

A handwritten signature in black ink that reads "Karen G. Rue". The signature is written in a cursive style with a large initial 'K' and 'R'.

Karen G. Rue, Ed.D.
Superintendent of Schools

NORTHWEST

INDEPENDENT SCHOOL DISTRICT



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PROFILE OF A GRADUATE

It is the mission of the Northwest Independent School District to provide a quality education, preparing all students to be successful, productive citizens. Our goal is to fulfill this mission by promoting the following characteristics in all of its programs. Every staff member bases student success and program development on these expectations, as well as the fulfillment of the Texas Essential Knowledge and Skills. Furthermore, these expectations are enhanced by the graduates' completion of the NISD Recommended Plan.



Every Student. Every Class. Every Day.

Adaptability

A Northwest Independent School District graduate will:

- Possess constructive strategies and/or skills for coping with change, stress, conflict, and transition.
- Anticipate, assess, and respond positively to the problems and challenges that accompany change.

Citizenship

A Northwest Independent School District graduate will:

- Contribute his/her time, energies, and talents to improve the welfare of himself/herself and others; have a sense of social responsibility; participate in the democratic process; be a contributing member of our economy; and operate effectively as a responsible member of our local, state, national, and international societies.
- Involve himself/herself in endeavors addressing social, political, and environmental issues.
- Formulate positive core values in order to create a vision for the future.
- Evaluate, analyze, and modify behavior of self and others in a group situation.

Communication

A Northwest Independent School District graduate will:

- Demonstrate effective leadership and/or group skills.
- Demonstrate proficient reading, writing, speaking, artistic, and listening skills.
- Demonstrate language literacy in written, aural, visual, electronic, and oral forms.

Critical Thinking

A Northwest Independent School District graduate will:

- Demonstrate decision-making and problem-solving skills in a variety of situations.
- Assess, formulate, and implement solutions to problems.
- Analyze information from multiple points of view.
- Locate, identify, assess, integrate, and apply information and resources.
- Demonstrate proficient use and/or understanding of the latest forms of technology.

Respect

A Northwest Independent School District graduate will:

- Demonstrate appreciation and value of self, including a health-conscious lifestyle.
- Act as a compassionate, considerate, and caring member of society.
- Understand the worth of diversity, differences of opinion, and humor.
- Participate in interpersonal relationships within culturally and organizationally diverse settings.
- Act as a quality decision-maker who exhibits integrity, and sound judgment; take personal responsibility for his/her actions; and make choices that benefit society.

TABLE OF CONTENTS

General Information	1-4
Graduation Requirements	5
Distinguished Achievement Program.....	6
College Preparation and College Testing Information.....	7
The Academies of Northwest ISD	8-21
Recommended High School Language Arts Course Sequence	22
English Language Arts.....	23-27
Recommended High School Math Course Sequence	28
Mathematics	29-30
Recommended High School Science Course Sequence	31
Science.....	32-33
Recommended High School Social Studies Course Sequence	34
Social Studies	35-38
Fine Arts.....	39-42
World Language and Culture	43-45
Health/Physical Education	46-47
Athletics	48-50
Other Electives.....	51-52
Tech-Prep - A Pathway to a New Future	53-55
Career & Technology Education	56-65
CISCO Networking Academy Curriculum.....	66
Work-Based Learning	67
Early College/Dual Credit.....	67-68
Special Education	69-71
ESOL Courses	72
New THEA Information.....	72

GENERAL INFORMATION

Some courses listed in this guide may not actually be offered due to low enrollment. Because of scheduling conflicts and classes closing, a student may not be able to register for every course he/she plans to take during a semester. For this reason, the student should have in mind alternate courses in case the first choice is not available. Please note that all courses will not be offered every semester of every year. In cases of limited class enrollment, priority will be given to 12th graders first, 11th graders next, etc.

Advanced Academic Courses

Students are encouraged to take more challenging Advanced Academics courses, such as Pre-Advanced Placement courses and Advanced Placement courses which contain “weighted” grade points. Teachers for these courses are trained in advanced methodology and curriculum. Advanced academics courses are offered in English, mathematics, science, social studies and other selected areas.

1. Advanced Placement (AP) Courses

AP courses follow college-level curricula and prepare students for AP examinations given in May. Students in Advanced Placement courses will be strongly encouraged to take an Advanced Placement examination in each course taken. There is a fee associated with taking the exam.

2. Pre-Advanced Placement Courses

Academic courses that lead to Advanced Placement courses are referred to as Pre-Advanced Placement (PreAP) courses. PreAP courses can be taken in grades 9 - 11. Emphasis is given to the skills and strategies students need to succeed in AP courses in grades 11 and 12 and in post-secondary education.

3. Gifted and Talented

Secondary students who are identified as gifted and talented are served through our Pre-Advanced Placement (PreAP), Advanced Placement (AP), and gifted and talented (GT) courses. All teachers of advanced classes must have gifted training with annual updates. In order for students to continue to be served, they must be enrolled in one of the classes noted above.

Concurrent College Enrollment

Concurrent College Enrollment means being enrolled in high school and college courses at the same time. These courses must be taken outside of the school day and will only count for credit at the college. They do not count toward high school graduation credit. You must first obtain permission from your counselor. Students must meet all requirements for college admissions (THEA, GPA, credits, etc.).

Dual Credit Enrollment

Credit toward high school graduation for completing a college-level course in any accredited college or university may be earned by students classified as juniors or seniors under the following provisions:

1. The student makes written request to the principal that credit be given for a college course. The course(s) may be taken concurrently with high school courses or during the summer or evening.
2. The parent(s) or guardian(s) affirms in writing to the principal that the student has parental permission to take the college course(s).
3. The student provides the District with an official college transcript showing the grade received. The grade must be a minimum of "C" to qualify for high school credit.
4. Credit toward graduation requirements earned through college course work approved by the Board for dual credit is not used in the computation of a student's grade point average for class ranking.

5. The student must meet the admissions requirements of the college or university including taking or being exempt from the THEA.
6. To be eligible to enroll and be awarded credit toward state graduation requirements, a student shall have the approval of the high school principal or other school official designated by the District.
7. North Central Texas College offers college courses (pending sufficient enrollment) at Northwest High School.

Transfer Students

Students entering from another state, country or state accredited private school where grades are awarded in letter form rather than numerical form shall have them interpreted for ranking and other purposes as shown on the chart in the Student Information Guide unless the school from which the student transferred provides documentation of the numerical equivalent for each letter grade awarded. Courses transferred for credit shall be transferred as "regular" courses in determining grade points. In order for the transferred course to be accepted as a basic or advanced level course for class ranking purposes, the course must be clearly identified as such on the transcript or confirmed as the equivalent of a basic or advanced-level course by the sending school to the high school counselor.

Transfer Credit

The District shall validate high school courses of transfer students from non-accredited, public, private, home or parochial schools by testing or other evidence that all TEKS are met. Placement tests for incoming 9th grade students will be 8th grade TAKS tests. These tests must be completed prior to the first day of school for placement in the 9th grade. In grades 10 - 12 students will take locally developed semester exams to earn credit in courses with previous instruction. Arrangements for these exams are scheduled by the student after they are enrolled in a NISD school. The grade a student earns is the grade used to award credit. The minimum exam score is 70 for the grade to be posted on the transcript and be included in the student's GPA

Schedule Changes

Any student initiated schedule change must be completed before June 15, 2009. The student's house committee must approve other schedule changes within the first 10 days of school and only in the case of improper academic placement in a course.

Schedule Change Guidelines, Philosophy and Deadlines

Only schedules that meet the following criteria will be considered for changes:

- A change is needed to balance a class size.
- Seniors not enrolled in a course **REQUIRED** for graduation.
- Students scheduled in a course for which they already have credit.
- Student is enrolled in a course for which the student does not have the prerequisite.
- Students has an incomplete schedule.
- Students enrolled/not enrolled in an application/audition course for which they were approved.
- Student has failed a course and needs to repeat the course.
- Change is needed as a result of a credit earned in summer school.

Exit Guidelines for PreAP/AP Courses

1. A student may exit the PreAP/AP course during the first 10 school days of each semester, or at the end of each designated grading period.
2. A student that exits out of a PreAP/AP course will retain this grade in the new course. If a student exits with a grade below 70 in the original course, this will impact their UIL eligibility.
3. Students who take an AP class for which there is not academic equivalent will be required to remain in the course until the end of the semester.

State Assessment

The TAKS test, Texas Assessment of Knowledge and Skills, evaluates student learning based on the state-required curriculum—the Texas Essential Knowledge and Skills (TEKS). Students are

tested in the areas of mathematics, reading, language arts, science, and social studies. By law, Texas students must now pass the TAKS test in order to graduate from high school. The exit level TAKS test is given in the spring of the junior year.

Award of Credit

A student must enroll all year for a 1-credit course, one semester for a 1/2-credit course, and either one or two semesters for a 1/2 or 1 credit course.

Multiple credit courses meet for 2 or more class periods daily or involve a cooperative education work experience.

High School Classification

All high school students are classified as members of a particular class as of the first day of each school year. This classification shall remain in effect for the entire school year. This policy does not apply to UIL eligibility.

To be promoted:

- From grade 9, a student shall have acquired 7 credits
- From grade 10, a student must have acquired 13 credits
- From grade 11, a student must have acquired 19 credits

Credit by Examination with Prior Instruction

Credit by examination (CBE) for students in grades 9 - 12 who have lost credit is available in courses approved by the board of trustees. Students must have had prior formal instruction to be eligible for CBE. Students must score a grade of 70 or above to receive credit. The cost for this testing is the student's responsibility. CBE shall not be used to gain eligibility for participation in extracurricular activities, nor shall it be used to earn credit when students have excessive absences. High school students should contact their counselor for additional information. Exams may be administered when needed, but are administered outside of the school day. Pre-registration and parental approval is required. Grades earned through CBE are not included in the GPA ranking.

Credit by Examination without Prior Instruction

A student will be permitted to take an exam to earn credit for an academic course for which the student has no prior instruction. The exams are given the third week in June and the third week in July. The passing score required to earn credit on an exam is 90%. The student (or parent) must register with the campus counselor no later than 60 days prior to the scheduled testing date. See the District Web site at www.nisdtx.org for Acceleration by Examination information.

Correspondence Courses

Students may earn a maximum of two of the total units required by the state through correspondence courses. Prior to enrollment in correspondence courses, students shall make written request to the principal or designee for approval to enroll in the course. Students shall not be awarded credit toward graduation if approval was not granted prior to enrollment. Students may be enrolled in only one correspondence course at a time. Grades earned in correspondence courses shall not be used in computing class ranking.

Credit toward state graduation requirements may be granted for correspondence courses only under the following conditions:

1. The institution offering the course is The University of Texas at Austin, Texas Tech University or another public institution of higher education approved by the Texas Commissioner of Education.
2. The correspondence course includes the state-required essential knowledge and skills for such a course.

UIL Eligibility

The following UIL standards are used to determine academic eligibility for the first six weeks of the school year.

- (a) GRADES 9 AND BELOW. Students must have been promoted from the previous grade.
- (b) GRADE 10. Five accumulated credits that count toward state graduation requirements.
- (c) GRADE 11. Ten accumulated credits that count toward state graduation requirements or student must have earned at least five credits within the last twelve months.
- (d) GRADE 12. Fifteen accumulated credits that count toward state graduation requirements, or student must have earned at least five credits within the last twelve months.

Early Graduation Requirements

Students may complete graduation requirements at any time. Arrangements must be made with the principal and the counselor prior to the start of the student's last semester. A conference between the parents, principal, and the student shall be required before approval is granted.

Compliance Statement

Northwest I.S.D. does not discriminate on the basis of race, religion, color, national origin, sex, or handicap in providing education services, activities, and programs, including vocational programs in accordance with Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Educational Amendments of 1972; Section 504 of the Rehabilitation Acts of 1973, as amended; and Title II of the American with Disabilities Act.

Northwest I.S.D. does not discriminate on the basis of disability by denying access to the benefits of district services, programs, or activities. To request information about the applicability of Title II of the American with Disabilities Act (ADA) interested persons should contact the school.

The Northwest I.S.D. will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational programs.

GRADUATION REQUIREMENTS

Courses	Graduation Requirements through 2010		Graduation Requirements 2011 - 2015	
	Recommended	Distinguished	Recommended	Distinguished
English (I, II, III, IV)	4 Credits	4 Credits	4 Credits	4 Credits
Mathematics	3 Credits (Algebra I, Geometry, Algebra II)	3 Credits (Algebra I, Geometry, Algebra II)	4 Credits (Algebra I, Geometry, Algebra II + 1 other)	4 Credits (Algebra I, Geometry, Algebra II + 1 other)
Science	3 Credits (Biology + 2 others from Integrated Physics & Chemistry, Chemistry, and Physics)	3 Credits (Biology + 2 others from Integrated Physics & Chemistry, Chemistry, and Physics)	4 Credits (Biology, Chemistry, Physics + 1 other)	4 Credits (Biology, Chemistry, Physics + 1 other)
Social Studies	3 1/2 Credits (W. Geography, W. History, US History, Government)	3 1/2 Credits (W. Geography, W. History, US History, Government)	3 1/2 Credits (W. Geography, W. History, US History, Government)	3 1/2 Credits (W. Geography, W. History, US History, Government))
Economics	1/2 Credit	1/2 Credit	1/2 Credit	1/2 Credit
Physical Education *	1 1/2 Credits	1 1/2 Credits	1 1/2 Credits	1 1/2 Credits
Health Education **	1/2 Credit	1/2 Credit	1/2 Credit	1/2 Credit
Other Language	2 Credits (same language)	3 Credits (same language)	2 Credits (same language)	3 Credits (same language)
Technology Applications ***	1 Credit (same course)	1 Credit (same course)	1 Credit (same course)	1 Credit (same course)
Fine Arts	1 Credit (same course)	1 Credit (same course)	1 Credit (same course)	1 Credit (same course)
Communication Applications	1/2 Credit	1/2 Credit	1/2 Credit	1/2 Credit
Total Core Subjects	20 1/2 Credits	21 1/2 Credits	22 1/2 Credits	23 1/2 Credits
General Electives	5 1/2 Credits	4 1/2 Credits	3 1/2 Credits	2 1/2 Credits
Total Credits	26 Credits	26 Credits	26 Credits	26 Credits

Students who take high school math courses in middle school must take a minimum of three (3) additional math courses in high school (beginning with freshman entry 2002-2003)

DISTINGUISHED ACHIEVEMENT PROGRAM

The Purpose of the Distinguished Achievement Program: The Distinguished Achievement Program requires high performance beyond that expected of students in high school, and it includes an external evaluation component. It is a statewide program that emphasizes academic excellence on a college level.

REQUIREMENTS: Students must complete the standards included in 19 TAC 75.152. The student must complete any four advanced measure that include the following:

1. Original research/project judged by a panel of professionals in the field that is the focus of the project, or conducted under the direction of mentor(s) and reported to an appropriate audience, or related to the required curriculum set forth in the Texas Essential Knowledge and Skills, and may not be used to satisfy more than two of the four advanced measures.
2. Test data include:
 - A. A score of three or above on The College Board Advanced Placement examination
 - B. A score of four or above on an International Baccalaureate examination
 - C. A score on the PSAT that qualifies a student for recognition as a Commended Scholar or higher by the National Merit Scholarship Corporation, as part of the National Hispanic Scholar Program of the College Board, or as part of the National Achievement Scholarship for Outstanding Negro Students of the National Merit Scholarship Corporation. The PSAT score may count as only one advanced measure regardless of the number of honors received by the student.
 - D. A grade of 3.0 or higher on courses that count for college credit, including identified tech prep programs. Students are limited to one advanced measure from this category beginning with freshmen who entered in 2002-2003.
3. Students must earn at least four (4) advanced measures and may do so in any combination.

ADDITIONAL INFORMATION

* **Physical Education** - Physical Education Equivalents and Waivers - Several courses that include physical activities may be substituted for the one and one-half required units of PE. These courses are Athletics, Drill Team, Dance, Cheerleading (Fall), and/or Marching Band (Fall). A two or three credit career and technology course, with employment, or internship experience provides a waiver of one (1) year PE requirement for each year completed. A maximum of two credits for PE or equivalents may be credited toward graduation. All students enrolled in Physical Education must include one semester of Foundations of Personal Fitness Education (one-half credit).

No more than TWO units of credit in physical education may be applied toward state graduation requirements.

** **Health Education** - May be satisfied by one (1) credit of Health Science Technology or Introduction to Health Science Technology.

*** **Technology Applications** - May be satisfied by PreAP Computer Science I, AP Computer Science II, Business Computer Programming I, BCIS I, BCIS II, Digital Graphics and Animation, Multimedia, Web-Mastering, Video Technology, Yearbook Production II-Desktop Publishing, or Yearbook Production III-Digital Graphics.

High school courses completed satisfactorily at the middle school (Algebra I, Spanish I, Health, Speech [Communication Application], Business Computer Information Systems) count toward high school graduation but may or may not be included in grade point average.

COLLEGE PREPARATION AND TESTING INFORMATION

The PSAT

The Preliminary Scholastic Aptitude Test (PSAT) provides students an opportunity to take a practice test that is very much like the SAT. Any freshman, sophomore, or junior may take the PSAT. All tenth graders at Northwest ISD are given the PSAT in October. For juniors, the PSAT is the National Merit Scholarship qualifying test (NMSQT). Juniors who perform exceptionally well on the test may be eligible for National Merit Scholarships.

The ACT

The ACT is a three-hour multiple-choice test measuring achievement in four areas: English, mathematics, reading, and science reasoning. The writing test, which is optional, measures skill in planning and writing a short essay. Each sub-test yields a score of 1-36. Averaging the four sub-tests produces a composite score that also is reported on a scale of 1-36.

The SAT

The SAT (Reasoning Test) is a three-hour and forty-five minute test of critical reading, writing, and mathematical abilities administered by the College Board. It also includes a twenty-five minute essay for the writing portion. Students will receive three scores on a 200-800 scale: one for critical reading, one for mathematics, and one for writing. The total writing score is a combination of multiple choice questions and an essay. The essay will make up approximately 30% of the writing section score.

Content-based Tests

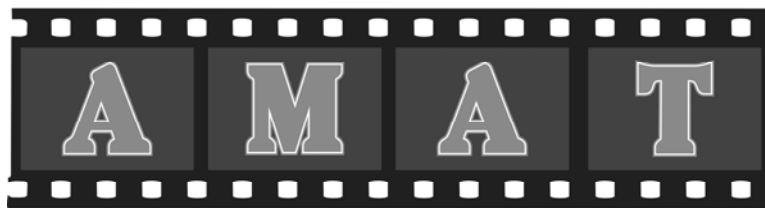
The SAT Subject Tests are one-hour, primarily multiple-choice tests that measure student's knowledge and skills in particular subject areas, as well as their ability to apply that knowledge. Some colleges and universities require that students take one or more of these tests as part of the admissions process or for placement purposes in college courses. Students should consult the admissions office of the schools they are considering to determine if SAT Subject Tests are required. Students should take SAT Subject Tests at the end of corresponding high school courses. For example, a student who completes chemistry at the end of the junior year is encouraged to take the SAT chemistry test in June following the junior year.

Advanced Placement (AP) Exams

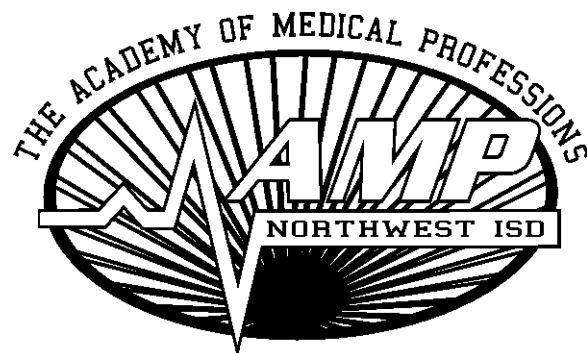
AP exams give students the opportunity to earn college credit while still in high school. Each AP course is based upon a national course outline equivalent to a college course. AP exams are given in May at the high school. Policies for granting college credit based on performance on an AP test vary from college to college. Students should consult college admissions offices to determine individual institution policies.

The Academies of Northwest ISD

the Academy of Media Arts and Technology



NORTHWEST ISD





The Academies of Northwest ISD

Academy Overview

The Academies of Northwest ISD include a comprehensive four-year plan that begins in the ninth grade and prepares students for entry-level employment, an associate degree, a baccalaureate degree, and/or other types of advanced training. During our inaugural year, 2009-2010, incoming 9th and 10th graders are eligible to join an academy. Students must apply to an academy for acceptance. Only academy students will be able to participate in the academy courses.

The Academy of Media Arts and Technology (AMAT)
Opens Fall 2009 - Northwest High School

The Academy of Science, Technology, Engineering, and Mathematics (STEM)
Opens Fall 2009 - Northwest High School

The Academy of Medical Professions (AMP)
Opens Fall 2009 - Byron Nelson High School

FREQUENTLY ASKED QUESTIONS

How do I apply for entrance into an academy?

Applications may be obtained from your middle school or high school counselor. You may also obtain one on our website: <http://academies.nisdtx.org>

Will I be able to participate in an academy and extra-curricular or other elective courses such as football, Ag, or band?

Each academy offers different opportunities for elective courses. Careful planning in middle school can expand high school opportunities. For example taking certain high school courses while still in middle school can create additional electives in high school.

Will all academies be available at Byron Nelson and Northwest High Schools?

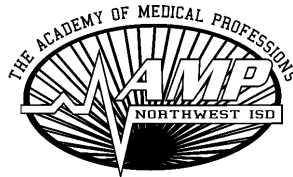
No. The STEM Academy and the Academy of Media Arts and Technology will be offered at Northwest High School. The Academy of Medical Professions will be offered at Byron Nelson High School.

What if I want to attend an academy that is not offered at my home campus?

You will have the opportunity to transfer to the campus of your choice for the purpose of attending academies. This will become your home campus.

Will the district provide transportation if I want to transfer in order to participate in an academy?

Yes. Bus transportation will be provided both ways.



THE ACADEMY OF MEDIA ARTS AND TECHNOLOGY



Northwest High School
2301 Texan Drive
Justin, TX 76247
<http://academies.nisdtx.org>

Overview of the Academy

The mission of the academy is to instruct students in pertinent aspects of television broadcasting and filmmaking, while maintaining a comprehensive high school education. The academy is designed to prepare students for their place in a world of ever increasing communication via television and the Internet.

Learning Environment

The academy is designed to give students real-world experience in running a television broadcast studio. The AMAT studio, known as NHSTV, will be broadcast to the high school population each day. It will also be broadcast via the World Wide Web. Students will cover school, national and local news as well as sports, entertainment, and weather.

Real-World Experience

A goal of this academy is to provide students an opportunity to develop real-world skills through their academy experiences. This will be achieved as students perform as employees of the NHSTV studio. Students will apply for positions in the studio and be interviewed for those positions. Although the instructor will be the studio's Executive Producer, to oversee content and provide support, students will direct and produce the daily show. Performance reviews will be done with the "studio employees" and serve as grades for the courses.

THE ACADEMY OF MEDIA ARTS AND TECHNOLOGY



COURSE DESCRIPTIONS

Introduction to Media Technology (1 Credit)

This is an applied learning introductory course where students explore visual communications methods in video. The course includes formats, techniques, and artistic skills within several visual communications fields. Students will explore filmmaking techniques as they script, storyboard, produce and edit “short” films. This course also provides an understanding of the careers in media technology fields.

Television and Radio Broadcasting I (2 Credits - Double Blocked)

Television and Radio Broadcasting II (2 Credits - Double Blocked)

Students will produce news broadcasts and will serve as production crew for the high school television station. Students also will assist with programming on the high school radio network and will assist with campus and district-wide projects. This laboratory course is designed to provide job specific training for entry-level employment in movie, radio, video and television production careers.

Instruction includes operation of different types of video cameras, mastery of audio techniques, electronic editing using Apple’s Final Cut Pro, creation of media graphics, lighting, script writing, direction, production, special effects, signal control and monitoring equipment, set design, entrepreneurship, safety, leadership training and career opportunities. Concepts of professionalism, ethics, production techniques and convergence are emphasized.

Broadcast Motion Graphics and Animation (1 Credit)

******Meets Technology Applications Requirement for graduation***

Broadcast Motion Graphics and Animation is a technical course, which develops knowledge and skills in the use of computers for multimedia presentations and broadcast quality motion graphics. This hands-on course allows students to create, edit and render video and audio resources to deliver a message. Using Apple Motion, Adobe After Effects, and 3D modeling software, students will create special effects and composites for television broadcasts and films.

THE ACADEMY OF MEDIA ARTS AND TECHNOLOGY



The Academy of Media Arts and Technology 4 Year Course Sequence – 7 Period Day

(Academy Courses in Shaded Boxes)

Grade	1	2	3	4	5	6	7
9th	Social Studies	English	Algebra I	Biology	Language I	Intro to Media Technology	Communication Applications
							Health
10th	Social Studies	English	Geometry	Chemistry	Television and Radio Broadcast I		Language II
11th	Social Studies	English	Algebra II	Physics	Television and Radio Broadcast II		P.E.
12th	Social Studies	English	Precalculus	Science Elective	Elective	Broadcast Motion Graphics	Fine Arts
					P.E.		

THE ACADEMY OF SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS



Northwest High School
2301 Texan Drive
Justin, TX 76247
<http://academies.nisdtx.org>

INFORMATION TECHNOLOGY TRACK

Overview of the Academy:

The mission of this academy is to prepare students for life after high school by developing 21st century skills, which include creativity, problem solving, collaboration, communication, initiative, productivity and leadership while teaching content, and real skills in the informational technology disciplines of computer repair, programming and networking.

Learning Environment:

The academy is designed to provide actual practice with real equipment and simulations in order to give students practical experience along with academic and industry knowledge. Students will be able to apply much of what they are learning and therefore be able to connect knowledge to applied skills.

Real-World Experience:

A goal of this academy is to provide students an opportunity for field trips, job-shadowing and internships in order to provide real-world experience. It is a goal to have guest speakers and mentors who will share their experiences and knowledge of industry standards and practices with students. During the course of this 4 - year academy program, students will have the potential to earn the following industry-recognized certifications: CompTIA A+ and Network+, Panduit PCI, and Cisco CCENT.

THE ACADEMY OF SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS



INFORMATION TECHNOLOGY TRACK COURSE DESCRIPTIONS

Computer Maintenance (1 Credit)

This course is designed as a basic course in computer operation, repair, and upkeep. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance, and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. The curriculum is aligned with the CompTIA A+ industry certification exam objectives.

Pre-AP Computer Science 1 (1 Credit)

******Meets Technology Applications Requirement for graduation***

This beginning programming course emphasizes problem solving and logic. Students will design, implement (code), debug, document and test small programs to solve a wide range of common programming problems. Students create solutions to stated problems in the Visual Basic.NET programming language.

Networking Essentials (1 Credit)

This fundamental networking course focuses on the features and functions of networking components, and the knowledge and skills needed to install, configure and troubleshoot basic networking cabling, hardware, protocols and services. Students in this course will complete the Panduit Network Infrastructure Essentials (PNIE) course of study. Students will also prepare for the CompTIA Network+ certification.

INFORMATION TECHNOLOGY TRACK COURSE DESCRIPTIONS (Continued)

Internetworking Technologies (1 Credit)

Students will complete the Cisco CCNA Discovery course series “Networking for Home and Small Businesses” and “Working at a Small to Medium Business or ISP”. Topics include: network protocols, OSI model, routers (including wireless technology), basic security, help desk, network addressing and upgrades, configuring network devices, routing, and ISP services and responsibilities. This course is aligned to Cisco’s CCENT (Cisco Certified Entry-Level Networking Technician) certification.

The Academy of Science, Technology, Engineering, and Mathematics

IT Track

4 Year Course Sequence – 7 Period Day

(Academy Courses in Shaded Boxes)

Grade	1	2	3	4	5	6	7
9th	Social Studies	English	Algebra I	Biology	Language I	Computer Maintenance	PE
10th	Social Studies	English	Geometry	Chemistry	Language II	Pre-AP Computer Science	PE
							Elective
11th	Social Studies	English	Algebra II	Physics	Fine Arts	Networking Essentials	AP Computer Science
12th	Social Studies	English	Precalculus	Science Elective	Communication Applications	Internetworking Technologies	Elective
					Health		

Students enrolling in the STEM Academy are strongly encouraged to take advanced science and math courses as appropriate.

THE ACADEMY OF SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS



ENGINEERING TRACK

Overview of the Academy

The mission of the Academy of Science, Technology, Engineering, and Mathematics is to prepare students for successful entry into continued academic or technical coursework at a community college or university level.

Learning Environment

The STEM Academy provides students with a balance of comprehensive high school academic and technical courses allowing students to apply critical thinking as well as technical expertise. Students will experience many situations requiring the application of a well-rounded education in order to complete the tasks. Through student competitions, students will demonstrate their ability to an outside world that is eager for their active participation.

Real-World Experience

Students will work with many different practical applications of math, science and technology. During aeronautics studies, for example, students will create the specifications for a rocket capable of carrying an instrumentation payload. They will design and "virtually" fly the rocket to refine the package, then build and fly the rocket in a field-experience environment. Students will create and program robots capable of performing various tasks during their studies on robotics and mechatronics.

THE ACADEMY OF SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS



ENGINEERING TRACK COURSE DESCRIPTIONS

Introduction to Engineering Design (1 Credit)

Introduction to Engineering Design is a course which introduces Engineering Academy students to the use of computer aided drafting and design software. Students will learn to create technical drawings and design engineering tools, jigs, and fixtures used in industry. Current 2D and 3D software used will include AutoCAD 2009, Inventor11, Autodesk VIZ, Revit Architecture, AutoDesk Mechanical and Civil 3D 2009. Study model design and development will also be covered in this course. Students must be enrolled in the Engineering Academy to participate.

Engineering: Our Digital Future (1 Credit)

Using curriculum developed jointly by Southern Methodist University's College of Engineering and Texas instruments, students in this course focus on the fundamentals of modern engineering and technology in the information and communications age. Students will develop an understanding of the engineering design process using a variety of technological devices to design, build and test engineering concepts. Students apply their mathematical knowledge to engineering and technology problems and will explore the connections between human engineering and technology.

Engineering Principles (1 Credit)

Students in Engineering Principles gain knowledge and skills in the application, design, production, and assessment of products, services and engineering systems with an emphasis on mechatronics (robotics and electronics combined) and astronautics / aeronautics. Students will design robotics systems to solve engineering problems, design, build, and fly small and medium sized model rockets to demonstrate the principles of Newtonian motion, propulsion, lift, drag and gravitational forces.

ENGINEERING TRACK

COURSE DESCRIPTIONS (Continued)

Engineering Research Design and Development (2 Credits - Double Blocked)

In this course, students apply the principles learned in previous coursework to advanced projects such as high altitude rocketry and remote sensing and autonomous robotics. The student, working alone for some tasks and in teams for other project tasks, will be responsible for providing project management, documentation, and incremental progress reports on a research and design project to instructors and subject-matter experts who will provide real-life assessment of the project on an ongoing basis including several mission-critical review stages. At the project's completion, the students will present the results of their project from beginning to completion to a panel that will assess the project's goals, completion, and lessons learned.

The Academy of Science, Technology, Engineering, and Mathematics

Engineering Track

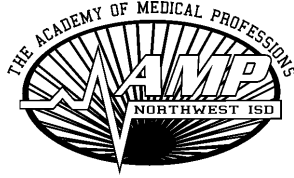
4 Year Course Sequence – 7 Period Day

(Academy Courses in Shaded Boxes)

Grade	1	2	3	4	5	6	7
9th	Social Studies	English	Algebra I	Biology	Language I	Engineering Design	Communication Applications
							Health
10th	Social Studies	English	Geometry	Chemistry	Language II	Engineering: Our Digital Future	P.E.
11th	Social Studies	English	Algebra II	Physics	Fine Arts	Engineering Principles	P.E.
							Elective
12th	Social Studies	English	Math Elective	Science Elective	Engineering Research, Design, and Development		Technology Applications

Students enrolling in the STEM Academy are strongly encouraged to take advanced science and math courses as appropriate.

THE ACADEMY OF MEDICAL PROFESSIONS



Byron Nelson High School
2007 Marshall Creek Rd.
Trophy Club, TX 76262
<http://academies.nisdx.org>

Overview of the Academy

The mission of the Academy of Medical Professions is to offer students opportunities to actively explore career options and develop the knowledge and skills to successfully compete in the economic and educational field of their choice.

The Academy attracts students who have an interest and desire to explore and enter health-care and medical careers. Students will enhance their academic foundation through a strong science-based enrichment curriculum.

While most people are familiar with doctors and nurses, other healthcare professionals actually comprise more than 60 percent of the entire health care workforce. According to the Texas Workforce Commission, Healthcare Support and Healthcare Technical Occupations are listed 1st and 3rd respectively among the “Top Occupations in Texas by Growth Through 2014.”

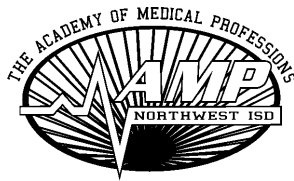
Learning Environment

The learning environment for the Academy of Medical Professions consists of a combination of teacher and guest lectures, student research projects that demonstrate and evaluate teamwork, written proficiency, oral proficiency, career preparation, and numeric skills. Student presentations will demonstrate real world application of 21st century skills such as collaboration and critical thinking, and a culture of trust and responsibility.

Real-World Experience

Industry certifications, clinical internships, and guidance for a smooth and seamless transition into the workforce, college and/or other advanced training are just a few of the academy’s goals. Industry partnerships provide students with valuable hands-on learning experiences so students learn to deliver safe, effective, efficient, quality health care.

THE ACADEMY OF MEDICAL PROFESSIONS



COURSE DESCRIPTIONS

Introduction to Medical Professions (1 Credit)

This course is a comprehensive study of the health care industry. Within that context, the therapeutic, diagnostic, environmental, and information systems of health care facilities such as Doctors' offices and hospitals are evaluated. Within each of these systems, the health careers that carry out those functions are explored. In addition, leadership development, ethical and legal responsibilities, the history of health care and the economics of health care are examined and demonstrated. Students will debate and construct concepts and skills of health and wellness from the perspectives of health consumers as well as health professionals. Understanding and application of the knowledge and behaviors that safeguard health, particularly pertaining to health risks, are thoroughly pursued. Students research accurate information that they can use to promote health for themselves and others and learn to differentiate between accurate and inaccurate information. Dramatization, problem-solving, research, goal-setting and communication skills are all developed to produce young people with clear understanding of ways to protect their health and that of the community. Students learn and become certified in CPR and First-Aid.

Medical Professions I (1 Credit)

Medical Professions I is designed to further students' pursuit of careers in health care. Students continue to develop effective learning, reasoning, critical thinking, decision-making, problem solving, and communication skills. Because quality health care depends upon teamwork and the capacity to work well with others, students practice working cooperatively in a variety of settings. Evaluation of the diagnostic, therapeutic, informational, and environmental system components of the health care industry continues. Illustration of the ways in which these components function individually and collaboratively to provide comprehensive health care is included. The employment opportunities, technology, and safety requirements of each system are analyzed and evaluated. Skills in client care, safety, first aid, and CPR are modeled, demonstrated and practiced in each of these areas.

THE ACADEMY OF MEDICAL PROFESSIONS COURSE DESCRIPTIONS (Continued)

Medical Professions II – Field Experience (2 Credits - Double Blocked)

Medical Professions II is designed to incorporate the previously learned material into the development of knowledge and skills that are related to a wide variety of health careers. It is during this class that students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies including such as job shadowing experiences in clinics, Doctors' offices, and other health care providers, clinical rotation, or cooperative education.

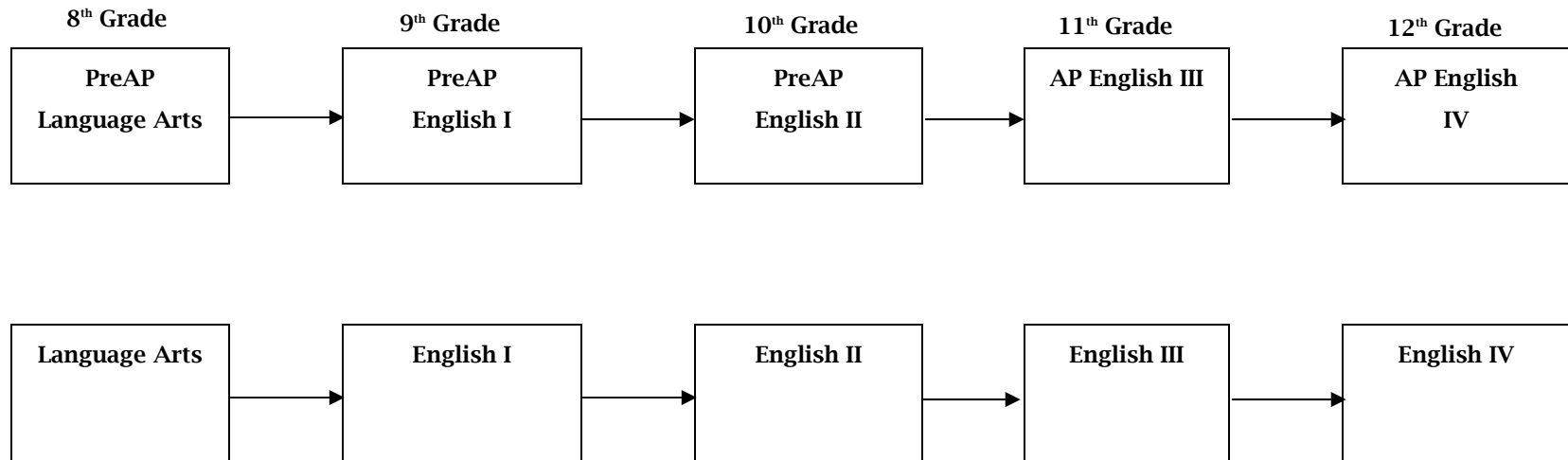
Medical Professions III – (1 Credit)

A continuation of Medical Professions II with a focus on individual specific clinical career interests areas.

The Academy of Medical Professions							
4 Year Course Sequence – 7 Period Day							
(Academy Courses in Shaded Boxes)							
Grade	1	2	3	4	5	6	7
9th	Social Studies	English	Algebra I	Biology	Language I	Intro to Medical Professions	Communication Applications
10th	Social Studies	English	Geometry	Chemistry	Language II	Medical Professions I	Fine Arts
11th	Social Studies	English	Algebra II	Physics	Medical Professions II		Elective
12th	Social Studies	English	Math Elective	Science Elective	Technology Applications	Medical Professions III	Elective

Students are encouraged to enroll in elective courses such as Medical Terminology, Abnormal Psychology, and Anatomy & Physiology.

Recommended High School Language Arts Course Sequence



Courses Offered at Level

English I (9)
English II (10)
English III (11)
English IV (12)
PreAP English I (9)
PreAP English II (10)
AP English III (11)
AP English IV (12)

ENGLISH LANGUAGE ARTS

0021 ENGLISH I

Credits: 1
Grade Placement: 9
Semesters: 2
Prerequisite: None

English I, II, III, and IV develop skills and concepts in the areas of reading, writing, speaking, and listening. Emphasis is placed on various domains of writing, the use of written and oral Standard English, study of literary genres, vocabulary enrichment, and the use of critical thinking skills. Research processes are developed as students produce various products and projects. Assignments are made for reading and writing both in class and outside of the classroom.

0022 ENGLISH II

Credits: 1
Grade Placement: 10
Semesters: 2
Prerequisite: English I

0023 ENGLISH III

Credits: 1
Grade Placement: 11
Semesters: 2
Prerequisite: English II

0024 ENGLISH IV

Credits: 1
Grade Placement: 12
Semesters: 2
Prerequisite: English III

0021P PreAP ENGLISH I

Credits: 1
Grade Placement: 9
Semesters: 2
Prerequisite: See District Recommendations. Summer reading required. Summer reading lists are available at <http://www.nisdtx.org>

English/Pre-Advanced Placement is designed for students who have shown exceptional mastery and understanding of the essential skills in grammar, writing, spelling, and reading. English I/Pre-Advanced Placement includes an in-depth study of literary genres, models of writing, grammar as needed and in relation to composition, and vocabulary study. **Students are expected to read novels outside of class in addition to completing the assignments in class.** Students enrolled in Pre-Advanced Placement courses have met standard in previous ELA TAKS assessments.

0022P PreAP ENGLISH II

Credits: 1
Grade Placement: 10
Semesters: 2
Prerequisite: See District Recommendations. Summer reading required. Summer reading lists are available at <http://www.nisdtx.org>

English II/Pre-Advanced Placement is designed for students who have shown exceptional mastery and understanding of grammar, writing, spelling, and reading. English II/Pre-Advanced Placement includes an in-depth study of literary genres, models of writing, grammar, composition, and vocabulary study. **Students are expected to read novels outside of class in addition to completing assignments in class.** Students enrolled in Pre-Advanced Placement courses have met standard in previous ELA TAKS assessments.

0023A AP ENGLISH III/AP ENGLISH LANGUAGE AND COMPOSITION

Credits: 1
Grade Placement: 11
Semesters: 2
Prerequisite: See District Recommendations. Summer reading required. Summer reading lists are available at <http://www.nisdtx.org>

Advanced Placement English III is an in-depth study of works from American literature and selections from 17th and 18th century nonfiction. **Students are expected to read extensively outside of class.** Students enrolled in Pre-Advanced Placement courses have met standard in previous ELA TAKS assessments. **The district expectation is that the student will take the appropriate Advanced Placement test.**

0024A AP ENGLISH IV/AP ENGLISH LITERATURE AND COMPOSITION

Credits: 1

Grade Placement: 12

Semesters: 2

Prerequisite: See District Recommendations.

Summer reading required. Summer reading

lists are available at <http://www.nisdtx.org>

Advanced Placement Literature and Composition is an in-depth study of British Literature. Students enrolled in Pre-Advanced Placement courses have met standard in previous ELA TAKS assessments. **The district expectation is that the student will take the appropriate Advanced Placement test.**

0021G PreAP ENGLISH I/GLOBAL STUDIES GT

Credits: 1

Grade Placement: 9

Semesters: 2

Prerequisite: Concurrent enrollment in World

Geography. Summer reading required.

Summer reading lists are available at

<http://www.nisdtx.org>

Designed to meet the needs of GT students, Global Studies is comprised of the thematically tied World Geography PreAP course and English I PreAP. This course explores major global issues from both a social-political as well as aesthetic/humanistic standpoint.

Note: Fulfills both World Geography and English I requirements when taken concurrently with 0302G.

0022G PreAP ENGLISH II/WORLD STUDIES/AP WORLD HISTORY GT

Credits: 1

Grade Placement: 10

Semesters: 2

Prerequisite: Concurrent enrollment in PreAP

World History. Summer reading required

Summer reading lists are available at

<http://www.nisdtx.org>

Designed to meet the needs of GT students, this combined PreAP World History and PreAP English II course explores the complexities of world society from earliest civilizations to the present.

Note: Fulfills both World History and English II requirements when taken concurrently with 0303G.

The district expectation is that the student will take the appropriate Advanced Placement test.

0023G AP ENGLISH III/AP ENGLISH LANGUAGE AND COMPOSITION/AMERICAN STUDIES GT

Credits: 1

Grade Placement: 11

Semesters: 2

Prerequisite: Concurrent enrollment in AP U.S.

History. Summer reading required. Summer

reading lists are available at

<http://www.nisdtx.org>

Designed to meet the needs of GT students, this combined United States History AP and English III AP Language and Composition course explores major American issues from both a social-political as well as aesthetic/humanist standpoint.

Note: Fulfills United States History and English III AP Language Composition requirements when taken concurrently with 0301G.

The district expectation is that the student will take the appropriate Advanced Placement test.

0001, 0002, 0003 English I/English II for Speakers of Other Languages

Credits: ½ per semester

Grade Placement: 9 - 12

Prerequisite: Recommendation by LPAC

ESOL I/II counts as English I/II for graduation requirement for immigrant students only. This course develops an understanding of basic core vocabulary, expressions and American customs. Emphasis is placed on acquisitions of English through participation in numerous and various language and cultural experiences in addition to direct, formal teaching of skills and structure in English. Students will gain competence and proficiency in listening, speaking, reading and writing in English.

ELECTIVES – ENGLISH LANGUAGE ARTS

0028 CREATIVE & IMAGINATIVE WRITING I (First semester only)

Credits: ½
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: English I

A course designed to develop and enhance writing ability by focusing on the creative and imaginative aspects of composition forms such as poetry, short stories, character sketches, etc.

0029 CREATIVE & IMAGINATIVE WRITING II (Second semester only)

Credits: ½
Grade Placement: 10 - 12
Semesters: 1
Prerequisite: Creative Writing I

A course intended to extend the developing writing process learned in Creative Writing I. Students will be encouraged to compose longer, more thoughtful pieces based on individual interests in different genres.

0025 LITERARY GENRE- INTRODUCTION TO MYTHOLOGY

Credits: ½
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: None

This course will examine the myths and legends of Western civilization from the ancient Greeks to contemporary American Indians. This class will focus on these myths as a reflection of their cultures and times, as well as their influence on the development of modern literature. **This course is for elective credit only. The course does not substitute for English credit.**

0014 LITERARY GENRE-HEROES OF MYTHOLOGY

Credits: ½
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: None

This course provides a study of the hero myths with an emphasis on traditional and modern epics. **This course is for elective credit only. The course does not substitute for English credit.**

0045 COMMUNICATION APPLICATIONS

Credits: ½
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: None

The student will learn to demonstrate knowledge of various communication processes in professional and social contexts. This course includes using appropriate interpersonal communication strategies, effective group communications, and the ability to deliver and evaluate formal and informal professional presentations.

0075 DEBATE/COMMUNICATION APPLICATIONS

Credits: 1 credit for debate and ½ credit for Communication Applications (if the CBE is passed)
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: None

This course is designed to combine the principles of debate with the state required Communication Applications. Emphasis will be placed on interpersonal communication, effective group communication, debating in various formats and participation in speaking and debate contests. After completion of the course, the student may take credit by exam for the ½ credit in Communication Applications. Participation in one individual speaking/debate contest per semester is required.

0041 PUBLIC SPEAKING

Credits: 1/2
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: None

This course is a general introduction to fundamentals of oral communications. This course includes individual speaking skills and discussion techniques. It emphasizes adjustment to the speaking situation, listening, body action when speaking, voice and diction when speaking, limited panel discussion and debate, and speaker-audience relationships. Students will be given the opportunity to compete in public speaking events at speech/debate tournaments.

0076 ORAL INTERPRETATION I
0077 ORAL INTERPRETATION II

Credits: 1
Grade Placement: 9 - 12
Semesters: 2

This course is designed for the student who is interested in competing in speech or drama tournaments. The class will focus on prose, poetry, storytelling, Reader's theater, monologue, and one act plays. Students will learn how to choose, cut, and perform literature. This class is for students that have prior experience in speech or drama. Students are expected to attend tournaments as required by the instructor.

0071 DEBATE I

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

A course designed to introduce and develop the concept of formalized argument, the skills of persuasion, and to examine the power of rhetoric. The student will learn to prepare affirmative and negative briefs, with evidence, in preparation for participation in tournament level debating.

0072 DEBATE II

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Debate I

This is a course for the second year student in debate. Emphasis is on actual debating in Lincoln-Douglas and cross-examination debate formats. Debaters will prepare negative briefs, appropriate cases and negative evidence for the national topic, TFA, NFL, and UIL debate topics. Participation in individual speaking/debate contests and after school practices is required for each semester.

0073 DEBATE III

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Debate II

This is a course for the third year student in debate. Emphasis is on hypothesis testing, counter warrants, counter plans, and forensic progression. The national debate topic, TFA, NFL, UIL debate topics are the basis for debate experience in both Lincoln-Douglas and cross-examination debate formats. Participation in individual speaking/debate contests and after school practices each semester is required. State Mock Trial Competition is optional.

**0074 INDEPENDENT STUDY IN
SPEECH**

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Debate III/or Public Speaking III

This is a course for the fourth year student in speech and/or debate. The student will plan and design an independent study project, conduct research to support and develop the approved project, and produce the final product. The student will present the final product and, along with other designated individuals, will evaluate the project.

0064 JOURNALISM

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

This course, an introduction to all forms of mass media, emphasizes the type of writing necessary for producing school publications. The class helps the student to evaluate current events and newspaper articles, and develops the student's awareness of his/her responsibility in learning to meet deadlines. Students also learn public relation skills.

**0051 ADVANCED JOURNALISM:
NEWSPAPER PRODUCTION I**

**0052 ADVANCED JOURNALISM:
NEWSPAPER PRODUCTION II**

**0053 ADVANCED JOURNALISM:
NEWSPAPER PRODUCTION III**

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Journalism recommended

Students are instructed in the elements and processes used in producing a school newspaper. Students are provided opportunities to develop personal skills in communication and cooperation, work within time constraints and budget limitations, plan and implement advertising and circulation campaigns, apply skills in covering events and in writing articles which reflect school and community life, and prepare and proofread copy. Students are instructed in photography as it pertains to newspaper production.

**0061 ADVANCED JOURNALISM:
YEARBOOK PRODUCTION I**

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Journalism recommended

Yearbook I will consist of the study of the elements and processes of magazine type journalism. Students shall be provided opportunities to develop a yearbook, plan budgets, advertising campaigns and circulation campaigns. They will cut and crop photographs, write and edit copy, produce graphic art, write headlines and captions, and write, edit, and proofread copy, pages, and entire issues of yearbook.

**0062 ADVANCED JOURNALISM:
YEARBOOK PRODUCTION
II/DESKTOP PUBLISHING**

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: None

Using the TEKS for advanced yearbook class, this course will be an extension of basic criteria. Editors will be expected to have mastered those individual skill areas and will serve as leaders for staff to effectively plan and produce a quality-oriented student yearbook. Adobe® PageMaker® or equivalent software will be used in the course.
This course will meet state technology requirements

**0063 ADVANCED JOURNALISM:
YEARBOOK PRODUCTION
III/DIGITAL GRAPHICS**

Credits: 1
Grade Placement: 12
Semesters: 2
Prerequisite: None

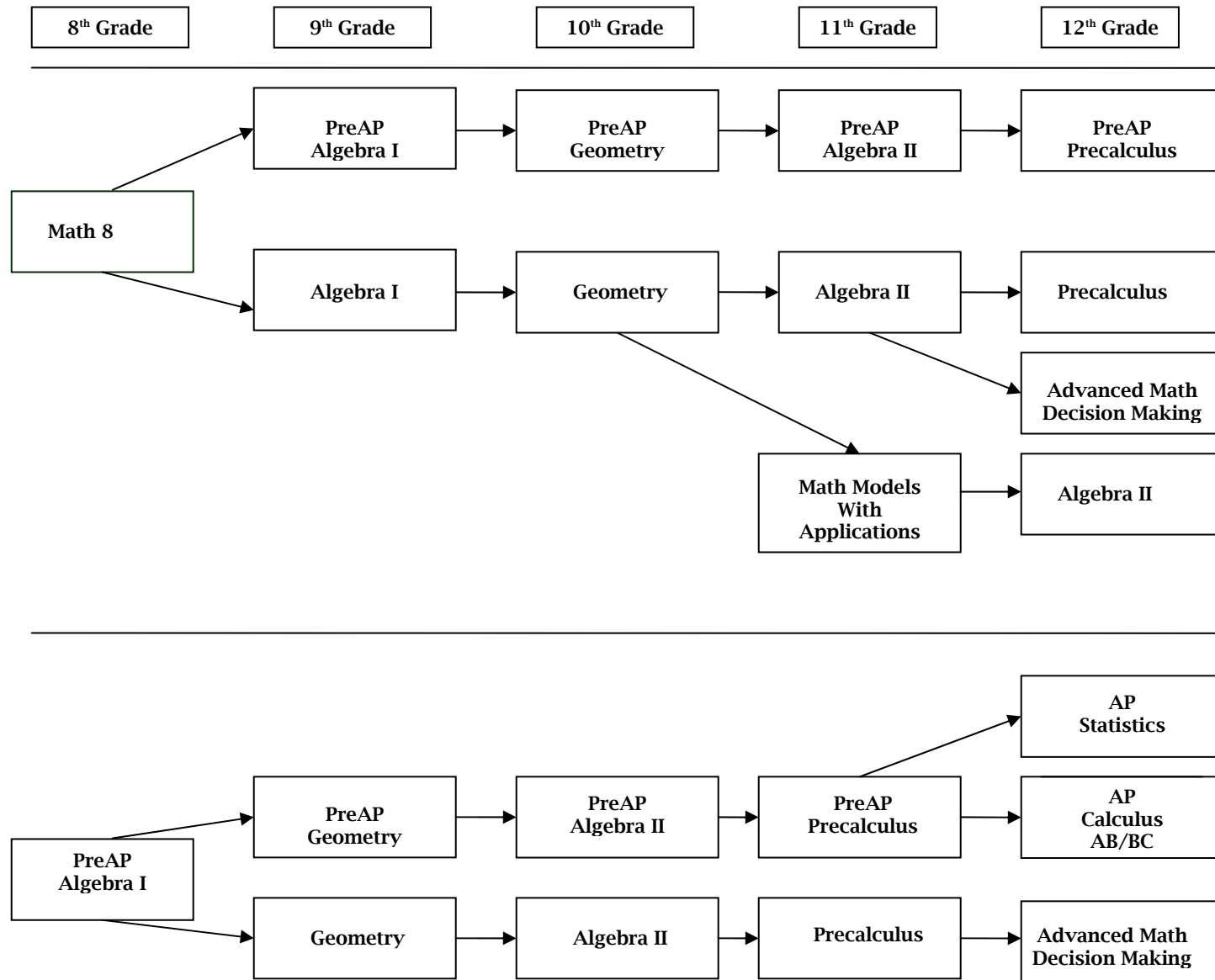
Using the TEKS for advanced yearbook class, this course will be an extension of basic criteria. Editors will be expected to have mastered those individual skill areas and will serve as leaders for staff to effectively plan and produce a quality-oriented student yearbook. Adobe® PageMaker® or equivalent software will be used in the course.
This course will meet state technology requirements

0065 PHOTOJOURNALISM

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: None

Students learn photocomposition, photojournalism camera techniques, and photography for journalistic purposes, and film processing. Photojournalism students may plan photo assignments with newspaper and yearbook editors.

Recommended High School Mathematics Course Sequence



MATHEMATICS

0104 ALGEBRA I

Credits: 1
Grade Placement: 9
Semesters: 2
Prerequisite: None

Algebra I involves concepts, skills and properties associated with real numbers. Linear equations, inequalities and quadratics are developed with a functions-based approach and multi-representations. Additional topics include solving systems of equations, polynomials, probability and statistics, and radicals. Graphing calculators will be used to explore and analyze problem situations.

0112 GEOMETRY

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Algebra I or PreAP Algebra I
May be taken concurrently with PreAP Algebra II with teacher recommendation.

Geometry consists of the study of figures of zero, one, two, and three dimensions and the relationships among them. Students use spatial reasoning and geometric thinking to study properties of size, shape, location, direction, and orientation of figures, the connection between algebra and geometry, and the application to real world problem solving by representing and transforming figures and analyzing and proving relationships of similarity and congruence. Concepts will be developed with and without technology.

0109 ALGEBRA II

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Geometry

Algebra II continues the development of concepts and skills introduced in Algebra I. Students will extend their knowledge of representations of linear and quadratic functions, solving and graphing systems of equations and inequalities, direct and inverse variation, sequences, polynomials, and rational functions, exponential and logarithmic functions, complex numbers, and conic sections

0104P PreAP Algebra I

Credits: 1
Grade Placement: 9
Semesters: 2
Prerequisite: None

Algebra I involves concepts, skills, and properties associated with real numbers. Linear equations and inequalities and quadratics are developed with a functions-based approach and multi-representations. Additional topics include solving systems of equations, polynomials, probability and statistics, and radicals. Graphing calculators will be used to explore and analyze problem situations. Additionally, students will develop advanced problem solving and symbol manipulation skills.

0112P PreAP GEOMETRY

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Algebra I or PreAP Algebra I
May be taken concurrently with PreAP Algebra II with teacher recommendation

Geometry consists of the study of figures of zero, one, two, and three dimensions and the relationships among them. Students use spatial reasoning and geometric thinking to study properties of size, shape, location, direction, and orientation of figures, the connections between algebra and geometry, and the application to real world problem solving by representing and transforming figures and analyzing and proving relationships of similarity and congruence. Concepts will be developed with and without technology. Additional emphasis is on the development of critical thinking skills, deriving geometric proofs, spatial reasoning, and transformations.

0109P PreAP ALGEBRA II

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Geometry or PreAP Geometry
May be taken concurrently with Geometry or PreAP Geometry with teacher recommendation

Algebra II continues the development of the concepts and skills introduced in Algebra I. Students will extend their knowledge of representations of linear and quadratic functions, solving and graphing systems of equations and inequalities, direct and inverse variation, sequences, polynomials and rational functions, exponential and logarithmic functions, complex numbers, and conic sections. Additional topics include natural log functions and more extensive study of conic sections and matrices.

ELECTIVES – MATHEMATICS

0108 MATHEMATICAL MODELS WITH APPLICATIONS

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Algebra I & Geometry
Must be taken prior to Algebra II

Students, in preparation for taking Algebra II, continue to build on Algebra I and Geometry foundations as they expand their understanding through mathematical experiences involving money, data, probability, patterns, music, design, and science. Students solve problems from a wide variety of advanced applications using multi-representations, tools, and technology.

0126 PRECALCULUS

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Algebra II

Precalculus involves the use of function families, equations, properties, and limits as tools for expressing generalizations and analyzing mathematical relationships. Students will study polynomial and rational functions, exponential and logarithmic functions, and trigonometric functions, including composite and inverse functions of each. Students will also study sequences and series, inverses and identities, vectors and parametric equations, conics, and complex numbers.

0126P PreAP PRECALCULUS

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: PreAP Algebra II

Precalculus involves the use of function families, equations, properties, and limits as tools for expressing generalizations and analyzing mathematical relationships. Students will study polynomial and rational functions, exponential and logarithmic functions, and trigonometric functions, including composite and inverse functions of each. Students will also study sequences and series, inverses and identities, vectors and parametric equations, conics, and complex numbers. Emphasis is on preparation for Advanced Placement Calculus, including additional opportunities for the development of critical thinking skills and exploring topics in more depth.

0117A AP CALCULUS AB

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: PreAP Precalculus

Topics are taught at the college level and studied in depth: limits of a function, graphical analysis, differentiation, integration (both definite and indefinite), and their application to real world problems. Graphing calculators will be used extensively to explore and analyze problem situations. District expectation is that the student will take the appropriate AP test.

0119A AP CALCULUS BC

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: PreAP Precalculus

Additional topics include surfaces of revolution, trigonometric integrals, sequences and series, Taylor and Maclaurin polynomials and series, derivatives of parametric equations, differentiation and integration of vector-valued functions, partial derivatives, and additional integration techniques. District expectation is that the student will take the appropriate AP test.

0128A AP STATISTICS

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: PreAP Algebra II

This course provides college-level work in statistics, divided into four major themes: exploratory analysis, planning a study, producing models that use probability and statistics, and confirmation of models through statistical inference. District expectation is for the student to take the appropriate AP test.

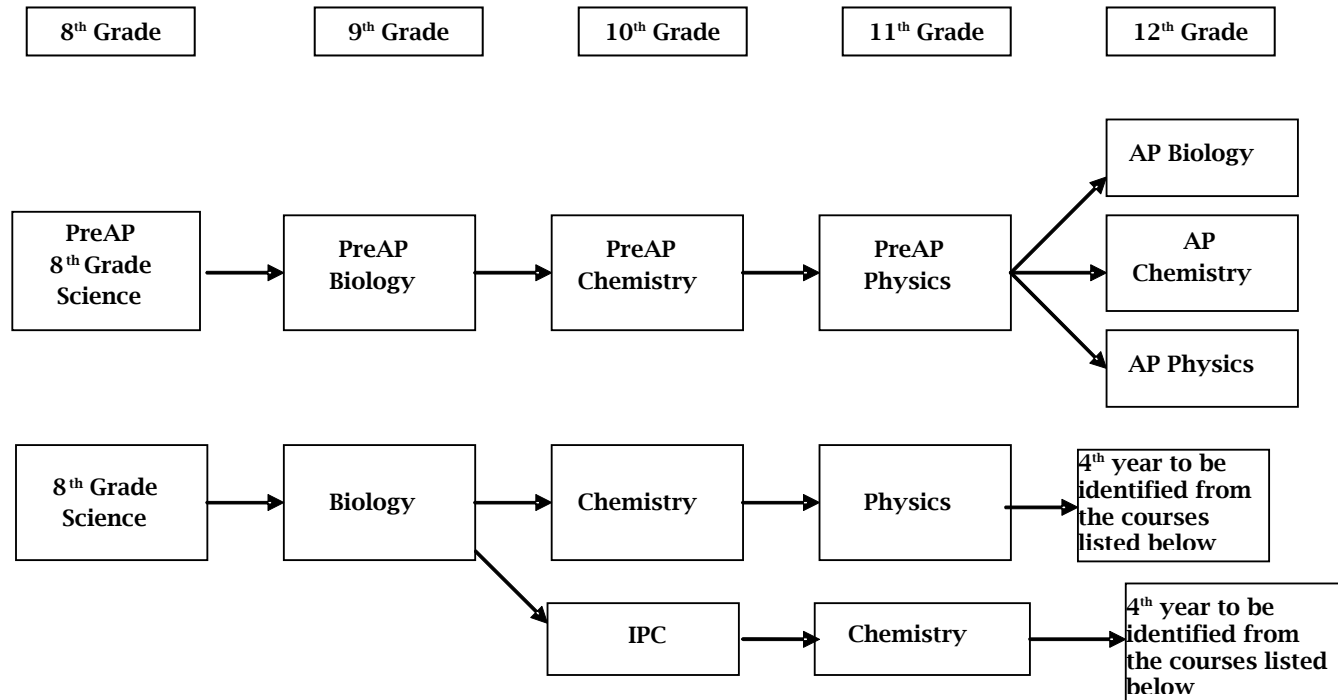
0121 ADVANCED MATHEMATICAL DECISION MAKING

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Algebra II

This is a fourth-year mathematics course to follow Algebra II as an alternative to Pre-Calculus. The primary focal points include the analysis of information using statistical methods and probability, modeling change and mathematical relationships, mathematics in finance and society, and spatial and geometric modeling for decision making.

All mathematics courses use graphing calculators when appropriate. Calculators are available for use in class. It is strongly recommended that students have a TI 83 Plus or TI 84 Plus for home use. Limited numbers are available for checkout for students needing assistance. Pre-Advanced Placement (PreAP) courses are designed to prepare students for entry into Advanced Placement (AP) mathematics courses. Basic content is defined by TEA for both regular and PreAP courses, but instruction in PreAP classes is at an accelerated pace.

Recommended High School Science Course Sequence



One credit must come from:

- Biology or PreAP Biology

Two credits must come from:

- Integrated Physics and Chemistry (IPC)
This course will be phased out of the RHSP and the DAP by 2011-2012)
- Chemistry or PreAP Chemistry
- Physics or PreAP Physics

Fourth credit must come from one of the following:

- PreAP Biology, AP Biology
- Chemistry, PreAP Chemistry, AP Chemistry
- Physics, PreAP Physics, AP Physics
- Anatomy and Physiology of Human Systems
- AP Environmental Science

SCIENCE

0214 INTEGRATED PHYSICS AND CHEMISTRY

Credits: 1
Grade Placement: 9 - 10
Semesters: 2
Prerequisite: None

Integrated Physics and Chemistry is the study of physical and chemical interactions of matter. One semester covers introductory concepts in chemistry including properties of matter and its components, atomic structure, chemical solutions, and chemical changes. The second semester covers introductory concepts in physics including force and motion, waves, and energy transformations.

0205 BIOLOGY

Credits: 1
Grade Placement: 9 - 10
Semesters: 2
Prerequisite: None

Biology is the study of the structure, growth, and function of the life systems of organisms. Students learn the techniques and skills involved in the use and care of compound and stereo microscopes and biological equipment related to the study of organisms. Concepts included are ecology, cytology, genetics and adaptation, taxonomy, reproduction, and energy production and transfer.

0207 CHEMISTRY

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Biology, Algebra I, and second year of math

Chemistry is the study of the composition of substances and the changes they undergo. Topics studied include characteristics of matter, energy transformations, atomic structure, the Periodic Table, gases, bonding, chemical reactions, radioactivity, and solutions. Mathematics is applied in quantitative analysis of data collected in laboratory experiments.

0216 PHYSICS

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Biology, Algebra I, Geometry, and completion of, or concurrent enrollment in Algebra II.

Physics is the study of the relationships between matter and energy. Topics such as force and motion, momentum, energy, waves, thermodynamics, electricity, and magnetism are covered. Data analysis and problem solving skills are emphasized.

0205P PreAP BIOLOGY

Credits: 1
Grade Placement: 9 - 10
Semesters: 2
Prerequisite: Algebra I

Pre-Advanced Placement Biology includes the same course of study designed for Biology with emphasis on research, problem solving, and laboratory. In addition, concept themes in the Advanced Placement Biology course will be introduced.

0207P PreAP CHEMISTRY

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Biology, Algebra I, and completion of, or concurrent enrollment in, PreAP Geometry or Algebra II.

Pre-Advanced Placement Chemistry includes an in-depth study of basic concepts taught in Chemistry with emphasis on problem solving and laboratory. Additional topics include mathematical and visual modeling, atomic and molecular structure, and kinetic theory of gases, chemical energy and equilibrium, basic concepts of thermodynamics, radioactivity, and organic chemistry.

0216P PreAP PHYSICS

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Biology, Algebra I, Geometry, and Pre-Advanced Placement Algebra II or Precalculus

Pre-Advanced Placement Physics includes an in-depth study of the basic concepts taught in physics with a primary emphasis on developing problem solving skills and laboratory technique. Topics covered include force and motion, energy, momentum, waves, electricity, magnetism and atomic and nuclear concepts.

ELECTIVES – SCIENCE

0205A AP BIOLOGY

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Biology, Chemistry

Advanced Placement Biology is a college-level biology course designed to prepare students to take the Biology Advanced Placement exam. Categories studied include molecules and cells, heredity and evolution, and organisms and populations. The main goals of Advanced Placement Biology are to help students develop a conceptual framework for modern biology and an appreciation of science as a process. **The district expectation is that the student will take the appropriate AP test.**

0215A AP PHYSICS C: -MECHANICS

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Pre-Advanced Placement Physics and credit or concurrent enrollment in either Pre-Advanced Placement Pre-Calculus or Advanced Placement Calculus

Advanced Placement Physics C-Mechanics is a college level course designed to help students prepare for the Advanced Placement Physics C exam in Mechanics. Emphasis is placed on problem solving. Topics covered include kinematics, dynamics, energy, momentum, and rotation. **The district expectation is that the student will take the appropriate AP test.**

0219A AP PHYSICS B/C: - ELECTRICITY AND MAGNETISM

Credits: 1
Grade Placement: 12
Semesters: 2
Prerequisite: Advanced Placement Physics C-Mechanics and credit or concurrent enrollment in Advanced Placement Calculus

Advanced Placement Physics B/C-E&M is a college level course designed to help students prepare for the Advanced Placement Physics B and C-Electricity & Magnetism exams. Topics covered include waves, sound, light, electricity, thermodynamics, and atomic nuclear structure. **The district expectation is that the student will take the appropriate AP test.**

0207A AP CHEMISTRY

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Pre-Advanced Placement Chemistry, Algebra II

Advanced Placement Chemistry is a college-level chemistry course designed to prepare students to take the Chemistry Advanced Placement exam. This course is a laboratory-oriented course with an emphasis on problem solving. Topics explored will include chemical reactions, bonding, thermodynamics, kinetics, acid-base chemistry, and equilibrium. **The district expectation is that the student will take the appropriate AP test.**

0213 ENVIRONMENTAL SYSTEMS

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Two units of required high school science

Environmental Systems is a laboratory course covering basic principles of ecology, energy, and the environment. Topics include local environmental systems, source and energy flow, populations and environmental changes. Decision making relating to the balance of nature and the impact of man will also be addressed.

0212A AP ENVIRONMENTAL SCIENCE

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Two years of science, preferably Biology & Chemistry

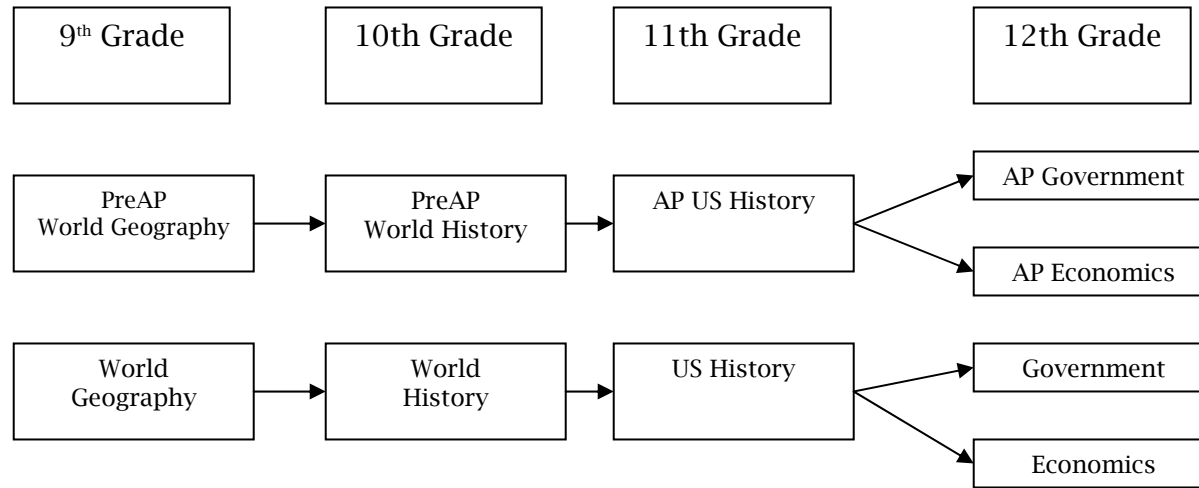
AP Environmental Science students will investigate the interrelationships between people and the natural world. This course will integrate the sciences - including biology, chemistry, and earth science - with the social sciences to analyze contemporary environmental issues. Students will examine topics such as the Biosphere, Plate Tectonics, Global Warming, Conventional and Alternative Energy, Environmental Ethics, and many more. A strong laboratory and field investigation component is included so that students can explore the issues that affect their own lives.

0211 ANATOMY AND PHYSIOLOGY OF HUMAN SYSTEMS

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Biology, Chemistry

Anatomy and Physiology of Human Systems is an introductory course designed primarily for students with interests in biological, medical, and health-oriented fields of study. Topics will include transport systems, metabolic processes, needs and responses of the body, anatomical structure and physiologic function. This course may yield Tech-Prep credit.

Recommended High School Social Studies Course Sequence



- Courses Offered at Level
- World Geography (9)
 - PreAP World Geography (9)
 - World History (10)
 - PreAP World History (10)
 - AP World History (10 - 12)
 - US History (11)
 - AP US History (11)
 - Government (12)
 - Economics (12)
 - AP European History (12)
 - AP Government (12)
 - AP Economics (12)
 - AP Human Geography (12)
 - Sociology (10 - 12)
 - Psychology (10 - 12)
 - AP Psychology (11 - 12)

SOCIAL STUDIES

0302 WORLD GEOGRAPHY STUDIES

Credits: 1
Grade Placement: 9
Semesters: 2
Prerequisite: None

The scope of this course will include physical, economic, and cultural geography. Emphasis will be placed on understanding the impact that environment has on the social, cultural, and economic life of a region. Stressed also will be an examination of uses, abuses, and preservation of natural resources and the physical environment.

0303 WORLD HISTORY STUDIES

Credits: 1
Grade Placement: 10
Semesters: 2
Prerequisite: World Geography Studies

Beginning with the ancient river valley civilizations, World History traces the development of both Western and non-Western cultures. Throughout the study, an emphasis is placed upon the role of geography in shaping history. The course culminates with a study of developments in the world during the 20th century beginning with the world wars and ending with the problems of today.

0301 UNITED STATES HISTORY STUDIES SINCE RECONSTRUCTION

Credits: 1
Grade Placement: 11
Semesters: 2
Prerequisite: World Geography Studies / World History Studies

United States History from 1865 covers the period of time from Reconstruction to the present with emphasis on the major factors contributing to the economic, social, and cultural development of the United States, i.e., impact of the Civil War, Reconstruction, immigration, social reform movement, and leaders. Students will also develop an understanding of political influences on historical issues and events.

0304 GOVERNMENT

Credits: ½
Grade Placement: 12
Semesters: 1
Prerequisite: United States History, World History Studies / World Geography Studies

This course is designed to explain the foundations, developments, structures, and functions of the United States political system. Students will be provided opportunities to compare types of governments and reasons for their establishment. Students will study the growth of government, the United States Constitution, the Bill of Rights, and important Supreme Court decisions.

0305 ECONOMICS/FREE ENTERPRISE

Credits: ½
Grade Placement: 12
Semesters: 1
Prerequisite: United States History, World History Studies / World Geography Studies

This course provides the opportunity for students to study the characteristics, benefits, and goals of the American free enterprise system. One goal of this course is to give the student the theoretical tools necessary to investigate the causes of economic problems and determine the implications of proposed solutions. Another goal is to help students acquire the skills necessary to function effectively as consumers and workers in today's complex society.

0302P PreAP WORLD GEOGRAPHY

Credits: 1
Grade Placement: 9
Semesters: 2
Prerequisite: None

Students in PreAP World Geography study the physical, economic, environmental, and cultural aspects of geography in greater depth and complexity. There will be an emphasis on critical thinking, problem solving, essay writing, and analytical reading of primary as well as secondary source documents. Students will participate in collaborative groups and class presentations that focus on developing communication and higher-level thinking skills.

0303P PreAP WORLD HISTORY

Credits: 1
Grade Placement: 10
Semesters: 2
Prerequisite: World Geography Studies

Students in PreAP World History study civilizations and historical eras in greater depth and complexity by focusing on political, economic, religious, social, intellectual, and artistic developments. There will be an emphasis on critical thinking, problem solving, essay writing, and analytical reading of primary as well as secondary sources. Students will participate in collaborative groups and class presentations that focus on developing communication and higher-level thinking skills.

0301A AP UNITED STATES HISTORY

Credits: 1

Grade Placement: 11

Semesters: 2

Prerequisite: Geography, World History

Advanced Placement United States History is a college-level history course designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and issues in United States history from discovery to the present. Students learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. **The district expectation is that the student will take the appropriate AP test.**

**0302G PreAP GLOBAL STUDIES/
ENGLISH I GT**

Credits: 1

Grade Placement: 9

Semesters: 2

Prerequisite: Concurrent enrollment in English I. Summer reading required. Summer reading lists are available at <http://www.nisdtx.org>

Designed to meet the needs of GT students, Global Studies is comprised of the thematically tied World Geography PreAP course and English I PreAP. This course explores major global issues from both a social-political as well as aesthetic/humanistic standpoint.

Note: Fulfills World Geography and English I requirements when taken concurrently with 0031G.

**0303G AP WORLD STUDIES/AP
WORLD HISTORY/ENGLISH II
GT**

Credits: 1

Grade Placement: 10

Semesters: 2

Prerequisite: Concurrent enrollment in English II. Summer reading required. Summer reading lists are available at <http://www.nisdtx.org>

Designed to meet the needs of GT students, this combined World History PreAP and English II PreAP course explores the complexities of world society from earliest civilizations to the present.

Note: Fulfills World History and English II requirements when taken concurrently with 0032G.

The district expectation is that the student will take the appropriate AP test.

0303A AP WORLD HISTORY

Credits: 1

Grade Placement: 10 - 12

Semesters: 2

Prerequisite: World Geography or PreAP World Geography

This course will focus on the world from 1000 CE (common era) to the present. Students will develop critical thinking skills by analyzing and interpreting primary and secondary documents and further hone their writing skills to prepare them for the AP exam. This course does replace the World History credit required for graduation.

The district expectation is that the student will take the appropriate AP test.

**0301G AMERICAN STUDIES/AP
UNITED STATES
HISTORY/ENGLISH III GT**

Credits: 1

Grade Placement: 11

Semesters: 2

Prerequisite: Concurrent enrollment in AP English III. Summer reading required. Summer reading lists are available at <http://www.nisdtx.org>

Designed to meet the needs of GT students, this combined United States History AP and English III AP Language and Composition course explores major American issues from both a social-political as well as aesthetic/humanist standpoint.

Note: Fulfills United States History and English III AP Language Composition requirements when taken concurrently with 0033G.

The district expectation is that the student will take the appropriate AP test.

**0304A AP UNITED STATES
GOVERNMENT AND POLITICS**

Credits: ½

Grade Placement: 12

Semesters: 1

Prerequisite: U.S. History, World History/World Geography

Advanced Placement United States Government & Politics is a college-level course designed to provide an analytical perspective on government and politics in the United States. It involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. Students will understand the various institutions, groups, beliefs, and ideas that constitute U.S. politics. **The district expectation is that the student will take the appropriate AP test.**

0305A AP MACROECONOMICS

Credits: ½

Grade Placement: 12

Semesters: 1

Prerequisite: U.S. History, World

History/World Geography

Advanced Placement Macroeconomics is a college-level course designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price determination, and also develops familiarity with economic performance measures, economic growth, and international economics. **The district expectation is that the student will take the appropriate AP test.**

ELECTIVES – SOCIAL STUDIES

0309A AP EUROPEAN HISTORY

Credits: 1

Grade Placement: 11 - 12

Semesters: 2

Prerequisite: World Geography, World History, and/or US History

Advanced Placement European History is a college-level course designed to be a political, diplomatic, social, and cultural study of European history. Students will develop an understanding of some of the principal themes in modern European History, an ability to analyze historical evidence and historical interpretation, and an ability to express historical understanding in writing. **The district expectation is that the student will take the appropriate AP test.**

0322A AP HUMAN GEOGRAPHY

Credits: 1

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: None

Advanced Placement Human Geography is a college-level course designed to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students will employ methods and tools of geographers, spatial concepts, and landscape analysis to examine human social organization and its environmental consequences. **This course does not replace the World Geography credit required for graduation. The district expectation is that the student will take the appropriate AP test.**

0314 PSYCHOLOGY

Credits: ½

Grade Placement: 10 - 12

Semesters: 1

Prerequisite: None

This survey course introduces the students to the field of psychology. It is designed to give students a basic history of psychology, theories of learning, self-awareness, the process of thinking, personality, heredity and mental health as well as a study of human growth and development.

0315 SOCIOLOGY

Credits: ½

Grade Placement: 10 - 12

Semesters: 1

Prerequisite: None

This course deals with the study of people and their interaction with one another. It involves learning about institutions found in all societies, such as the family and community organizations as well as political and social activities. Broad areas of content include mobility of people, human relationships, and factors in society, which influence human personality.

0326A AP PSYCHOLOGY

0327A SOCIAL STUDIES/ADVANCED STUDIES

Credits: 1

Grade Placement: 11 - 12

Semesters: 2

Prerequisite: None

Advanced Placement Psychology is a college-level introduction to psychology course. Students study the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. **The district expectation is that the student will take the appropriate AP test.**

0303A AP WORLD HISTORY

Credits: 1

Grade Placement: 10 - 12

Semesters: 2

Prerequisite: World Geography or PreAP World Geography

This course will focus on the world from 1000 CE (common era) to the present. Students will develop critical thinking skills by analyzing and interpreting primary and secondary documents and further hone their writing skills to prepare them for the AP exam. This course does replace the World History credit required for graduation. The district

FINE ARTS

(ART, MUSIC, THEATRE ARTS, AND DANCE)

Several courses that include physical activities may be substituted for the one and one-half required units of PE. These courses are Athletics, Drill Team, Dance, Cheerleading (Fall), and/or Marching Band (Fall).

0401 THEATRE ARTS I

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Theatre Arts I is an introductory survey course with emphasis on the major historical periods of theatrical development. Students will participate in readings and rehearsals of plays from each period as they develop their skills as actors, playwrights, and designers.

0402 THEATRE ARTS II

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Theatre Arts I

Theatre Arts II is a continuation of the work in Theatre I with further focus on Acting.

0403 THEATRE ARTS III

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Theatre Arts II, audition

Theatre Arts III-IV are advanced level acting courses that enhance performance skills and techniques used by the actor on stage. Students will explore methods of characterization, research, and role preparation. Emphasis placed on the development of essential acting techniques includes characterization, objectives, action and script analysis. The study of vocal exercises is also used primarily to improve vocal ability and training in the use of dialects.

0404 THEATRE ARTS IV

Credits: 1
Grade Placement: 12
Semesters: 2
Prerequisite: Theatre Arts III, audition

0405 TECHNICAL THEATRE I

0406 TECHNICAL THEATRE II
0399 TECHNICAL THEATRE III-IV
Credits: 1
Grade Placement: 9 - 12
Semesters: 2

Prerequisite: Teacher approval

Technical Theatre I-IV are advanced level courses that cover all areas of design for the theatre and the implementation of design through the manipulation of theatre technology. Students will develop their skills in the visual language tools of the theatre - drawing/sketching, drafting, lighting, costume, and set design.

0407 THEATRE PRODUCTION I

0408 THEATRE PRODUCTION II

0409 THEATRE PRODUCTION III

0410 THEATRE PRODUCTION IV

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Teacher approval

Theatre Production I-IV is an advanced level course. It is a practical and academic course that focuses on direct support of the productions. Students are expected to participate in all Theatre Department productions.

0411 ART I

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Art I is an introduction to the use of the elements and principles of design, and the different materials used for self expression. The student will be given opportunities to design and create original works of art.

0412 ART II

DRAWING/PAINTING/MIXED MEDIA

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Art I

This course is a continuation of the use of the elements and principles of design. Students will be provided an opportunity to work in drawing, painting, mixed media, and more while gaining an understanding of self and others through creative expression.

**0420 ART II
CERAMICS/SCULPTURE**

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Art I

This course is a continuation of the use of the elements and principles of design in three dimensional issues. Students will be provided an opportunity to work in ceramics, sculpture, and three dimensional mixed media while gaining an understanding of self and others through creative expression. **This course requires an Art fee.**

**0414 ART III
PAINTING/DRAWING/
SCULPTURE**

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Art I, Art II

In this course students will demonstrate their abilities to work on a wide variety of drawing/design problems. Each student will create a portfolio with the intention of submittal to the College Board.

**0413A DRAWING/AP STUDIO ART:
2-D DESIGN**

Credits: 1
Grade Placement: 10 - 11
Semesters: 2
Prerequisite: Art I, Art II and teacher approval

In this course students will demonstrate their abilities to work on a wide variety of drawing/design problems. Each student will create a portfolio with the intention of submittal to the College Board. **The district expectation is that the student will take the appropriate AP test.**

**0415A DRAWING PORTFOLIO/AP
STUDIO ART: DRAWING**

Credits: 1
Grade Placement: 12
Semesters: 2
Prerequisite: Art I, Art II and teacher approval

In this course students will demonstrate their abilities to work on a wide variety of drawing problems, displaying both representational and abstract qualities within their drawing. Each student will create a portfolio that will include three different sections: quality, concentration, and breadth with the intention of submittal to the College Board. **The district expectation is that the student will take the appropriate AP test.**

**0418A THREE-DIMENSIONAL
ART/AP STUDIO ART: 3-D
DESIGN**

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Art I, Art II and teacher approval

In this course a very broad interpretation of sculptural issues in depth and space is addressed. These may include mass, volume, form, plane, light, and texture. A variety of approaches to representation, abstraction, and expression may be a part of the student's portfolio. These can include traditional sculpture, ceramics, architectural models, fibers (textiles), metalwork, and/or apparel. Each student will create a portfolio that will include three different sections: quality, concentration, and breadth with the intention of submittal to the College Board. **The district expectation is that the student will take the appropriate AP test.**

0416A AP ART HISTORY

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: None

Advanced Placement Art History is a college level course designed to provide students an understanding and enjoyment of architecture, sculpture, painting, and other art forms within historical and cultural contexts. In the course, students examine major forms of artistic expression from the past and present and from a variety of cultures. They learn to look at works of art critically, with intelligence and sensitivity, and to articulate what they see or experience. **The district expectation is that the student will take the appropriate AP test.**

**0421 BAND I
0422 BAND II
0423 BAND III
0424 BAND IV**

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
*Prerequisite: **Band I** - Previous Band experience required.
Band II-IV - Band courses in sequence by grade level*

Through large group, small group, and individual instruction, students are taught instrumental technique, creative self-expression, perception skills, and historical/cultural heritage in a performance-based classroom. Enrollment in this class includes participation in marching band, summer band camp, early morning rehearsals, and extracurricular performances (football games, marching contests, parades, etc...). Students' grades are based on musical performance on their instrument. **Students receive ½ Physical Education credit (fall semester only), and ½ Fine Arts credit.** Band I - an audition is required for class placement.

<p>0431 JAZZ BAND I 0432 JAZZ BAND II 0433 JAZZ BAND III 0434 JAZZ BAND IV Credits: 1 Grade Placement: 9 - 12 Semesters: 2 <i>Prerequisite: Concurrent enrollment in band (exceptions to this requirement are only made for students who play bass or guitar)</i></p>	<p>Jazz Band is an advanced level performance-oriented instrumental ensemble. The course content provides for reinforcement of the Texas Essential Knowledge and Skills for band. Special emphasis is placed on jazz styles and rhythms and other similarly related musical idioms. The study of improvisation, music theory and history are a vital part of the stage band curriculum. After school rehearsals and performances as scheduled by the director are required. An audition is required for participation in this class.</p>
<p>0475 COLOR GUARD I 0476 COLOR GUARD II 0477 COLOR GUARD III 0478 COLOR GUARD IV Credits: ½ Grade Placement: 9 - 12 Semesters: Fall only <i>Prerequisite: Audition</i></p>	<p>Students are taught the fundamentals of dance, flags, rifles and sabers in preparation for performance with the marching band. Students enrolling in this class must be available for outside of school rehearsals, all marching performances, football games and competitions as scheduled by the band department. This class fulfills credit for Fine Arts or Physical Education equivalency.</p>
<p>0435 WINTER GUARD I 0436 WINTER GUARD II 0437 WINTER GUARD III 0438 WINTER GUARD IV Credits: ½ Grade Placement: 9 - 12 Semesters: Spring only <i>Prerequisite: Audition</i></p>	<p>Students are taught the fundamentals of dance, flags, rifles and sabers in preparation for Winter Guard competitions and performances. Students enrolling in this class must be available for competitions and after school rehearsals as scheduled by the Winter Guard instructor. This class fulfills credit for Fine Arts or Physical Education equivalency.</p>
<p>0441 CHOIR I Credits: 1 Grade Placement: 9 - 12 Semesters: 2 <i>Prerequisite: None</i></p>	<p>This choir is open to any interested student. Members of this performing group will study basic singing technique and music reading skills. The variety of music performed will provide students knowledge of music in a historical and cultural context. Students will be required to participate in three major concerts during the school year.</p>
<p>0442 CHOIR II 0443 CHOIR III 0444 CHOIR IV Credits: 1 Grade Placement: 10 - 12 Semesters: 2 <i>Prerequisite: Audition is required to determine placement. Choir courses in sequence by grade level.</i></p>	<p>Students must have a basic knowledge of sight-singing and vocal technique. Students will study advanced choral singing technique and sight-singing fundamentals. The variety of music performed will provide students knowledge of music in a historical and cultural context. Through participation in performances, the student will improve creative self-expression and represent this campus in the community as well as at group and individual competitions.</p>
<p>0460A AP MUSIC THEORY Credits: 1 Grade Placement: 9 - 12 Semesters: 2 <i>Prerequisite: Students must read and write basic music notation and have basic skills in voice or instrument and teacher approval.</i></p>	<p>This course will develop a student's ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. This will be accomplished through aural sight-singing, written, compositional, and analytical skills as well as exercises in listening and performance. The district expectation is that the student will take the appropriate AP test.</p>
<p>0711 DANCE I Credits: 1 Grade Placement: 9 - 12 Semesters: 2 <i>Prerequisite: None</i></p>	<p>Dance I is structured as a preparatory class for girls who are interested in becoming a member of the Drill Team. Instruction, practice, and participation are provided in Ballet, Jazz, Drill Team, Lyrical and Modern Dance. Emphasis in this course is placed on the basic dance team fundamentals of individual dance technique, group dance movement, and informal performance.</p>

0712 DANCE II

Credits: 1

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Dance I or Teacher approval

Dance II addresses the elements of advanced dance skills in the areas of Ballet, Jazz, Drill Team, Lyrical and Modern Dance. Creative expression through movement, awareness of space, time and energy as design factors in dance technique and composition; development of self-confidence and an appreciation of dance as an art form. Participants have opportunities to perform, choreograph, compete in the area of dance, and view other dancers of their age group as well as professional dancers.

WORLD LANGUAGE AND CULTURE

0601 SPANISH I

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

This beginning level course introduces students to the Spanish language and Hispanic cultures. The class initiates communication in Spanish using the four basic language skills of listening, speaking, reading, and writing. Spanish I focuses on phonetic sounds & elements of Spanish, contains a large amount of vocabulary, deals primarily with present tense conjugation, and basic grammar. It is a journey to enhance the students' knowledge and appreciation of the diverse cultures found in the 20 countries whose primary language is Spanish.

0602 SPANISH II

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Spanish I

Students continue to develop proficiency on all four language skills: listening, speaking, reading, and writing, with emphasis on the ability to communicate orally. Students will participate in dialogues about familiar situations, using more complex sentences and grammatical patterns. Familiar materials will be read, and short, directed compositions will be written. Students will focus on the study and mastery of extensive vocabulary. The customs and culture of the Hispanic world will continue to be stressed.

0602P PreAP SPANISH II

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Spanish I, see District Recommendations

Students continue to develop proficiency on all four language skills: listening comprehension, speaking, reading comprehension, and writing, with emphasis on the ability to communicate orally in the past, present and future tenses. Students will participate in dialogues about familiar situations, using more complex sentences and grammatical patterns. Students will develop the use and understanding of vocabulary at a higher level. The customs and culture will continue to be stressed.

0603 SPANISH III

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Spanish II

Spanish III, conducted mainly in Spanish, will provide opportunities for the student to develop oral discussions from assigned literary selections and news items in periodicals. Students will review formal grammar through paragraph writing and essay writing. Students will be exposed to an understanding of historical and cultural backgrounds of Spanish-speaking countries.

0603P PreAP SPANISH III

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Spanish II and teacher approval. See District Recommendations.

The content of this course will be accelerated and expanded to include an extensive study of grammar and advanced vocabulary so that students may communicate at a higher, more complex level. This course is designed for those students planning to continue their language study and/or prepare for the Advanced Placement Examination.

0604P PreAP SPANISH IV

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Spanish III and teacher approval

Spanish IV is designed for students demonstrating an advanced aptitude for Spanish. Emphasis will be placed on the improvement of the student's ability to comprehend selected Spanish communications from textbooks, periodicals, newspapers, radio, television, and film. They will also express ideas using complete sentences and broaden their appreciation of the foreign culture and be able to use the most complex grammar structures. Emphasis on further development of oral proficiency will be made.

0605A SPANISH V/AP SPANISH LANGUAGE

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Spanish IV / Pre-AP

The purpose of this is to prepare students to take the Advanced Placement Language Examination. Students will express ideas both orally and in writing, with reasonable fluency. Students will develop a vocabulary sufficiently ample for reading newspaper and magazine articles, contemporary literature, and other non-technical writings, without dependence on a dictionary. Students will receive extensive training in the organization and writing of compositions, review syntax, and complex grammar structures. In addition, Spanish novels and other Spanish literature will be read in this class. **The district expectation is that the student will take the appropriate AP test.**

0620 SPANISH I/II SPANISH FOR THE SPANISH HERITAGE SPEAKER

Credits: 2
Grade Placement: 9 - 11
Semesters: 2
Prerequisite: Spanish oral fluency and teacher approval.
There is a placement test required.

This course is specifically designed for the student who is orally fluent in Spanish. Students who enroll are expected to continue studies in Spanish on the AP track. The content of this course concentrates heavily on Spanish grammar, reading and analyzing high levels of Spanish literature, writing grammatically correct essays with the use of advanced vocabulary, and studying the cultures of Hispanic countries.

0607 FRENCH I

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

French enables the student to learn French pronunciation, to acquire vocabulary sufficient for simple conversations, to practice basic grammatical structures, and to gain an understanding of historical and cultural background of the French-speaking world.

0608 FRENCH II

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: French I

French II will enable the student to increase his skills in listening, speaking, reading, and writing with special emphasis on reading. Opportunities are provided for the development of grammatical understandings, word attack skills, vocabulary enrichment, and an understanding of historical and cultural backgrounds of French-speaking countries.

0609P PreAP FRENCH III

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: French II

French III will be based on the TEKS of Advanced Languages III. The class, which will be conducted mainly in French, will provide opportunities for the student to develop oral discussions from assigned literary selections and news items in periodicals, to review formal grammar through paragraph writing and essay writing, and to write social notes and personal letters in French. Readings will include plays, and poetry.

0610A ADVANCED FRENCH/AP FRENCH LANGUAGE

Credits: 1
Grade Placement: 12
Semesters: 2
Prerequisite: French III

Advanced French will be based on the TEKS of Advanced Languages IV. The class will be conducted mainly in French and will include discussions on French history, literature, and current events. Essay writing, creative writing, and a research paper will reinforce grammar skills. Readings will include novels, plays, and poetry. **The district expectation is for that student will take the appropriate AP test.**

0614 GERMAN I

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

This first year German class will be an introduction to the German language and culture. After the completion of one year, students will be equipped in the following ways: Students will know basic German grammar, the use of regular and irregular verbs, a variety of common vocabulary words, many phrases, and the ability to hold brief conversations. In addition, students will be knowledgeable of German culture, including how teenagers in German-speaking countries live in our modern day society.

0615 GERMAN II

Credits: 1

Grade Placement: 10 - 12

Semesters: 2

Prerequisite: German I

German II will enable the student to increase his skills in listening, speaking, reading, and writing. Opportunities are provided for the development of grammatical understandings, vocabulary enrichment, spontaneous verbal communication, and an understanding of historical and cultural backgrounds of German-speaking countries. It is suggested that with the complexity of German grammar that students progress satisfactorily in their knowledge of English grammar.

0616P PreAP GERMAN III

Credits: 1

Grade Placement: 11 - 12

Semesters: 2

Prerequisite: German II and teacher approval

This third year course presents a wider variety and more difficult activities to help the student maintain his audiovisual abilities, increase his vocabulary, improve his writing skills, broaden his knowledge of grammar, and expand his cultural understanding.

**0617A ADVANCED GERMAN/AP
GERMAN LANGUAGE**

Credits: 1

Grade Placement: 12

Semesters: 2

Prerequisite: German III

The class will be conducted mainly in German and will include discussions on German history, literature, and current events. Essay writing, creative writing, and a project or research paper will reinforce grammar skills. Readings will include short stories, plays, and periodicals. **The district expectation is that the student will take the appropriate AP test.**

0611 LATIN SURVEY

Credits: 1

Grade Placement: 10 - 12

Semesters: 2

Prerequisite: None

This course is an introductory course of beginning Latin. Basic concepts in grammar and vocabulary will enable students to read and translate elementary Latin and increase English language vocabulary through word decoding skills. Recommended for all students interested in or planning to major in art, language, and/or linguistics, music, sciences, history, or theatre. **This course does not count towards foreign language requirements for graduation.**

HEALTH / PHYSICAL EDUCATION

0700 HEALTH

Credits: ½
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: None

Health Education offers students an opportunity to study concepts and skills related to physical, mental and social well being of individuals or groups. Students will study nutrition, first aid, safety, emergency care as well as physical fitness, and drug abuse. Current health and community health will also be discussed.

0701 FOUNDATIONS OF PERSONAL FITNESS

Credits: ½
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: None

This course represents a physical education approach to the concept of personal fitness. The basic purpose is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include teaching students about the concept of wellness. Striving to reach optimal levels of health is the cornerstone of this course and is exemplified by one of the course objectives--students designing their own personal fitness program. **This is a required course (see page 5) unless credit has been earned through athletics.**

0705 INDIVIDUAL SPORTS (Should be taken 2nd semester)

Credits: ½
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: Foundations of Personal Fitness

Students enrolled in Individual Sports will participate on a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related fitness and the participation in individual sports will be a major objective of this course.

0703 TEAM SPORTS (Should be taken 1st semester)

Credits: ½
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: Foundations of Personal Fitness

Students enrolled in Team Sports are expected to develop health-related fitness and an appreciation for teamwork and fair play. Like the other high school physical education courses, Team Sports is concerned with the acquisition of physical fitness during the course and reinforcing the concept of incorporating physical activity into a life-style beyond high school.

0704 OUTDOOR EDUCATION

Credits: ½
Grade Placement: 10 - 12
Semesters: 1
Prerequisite: Foundations of Personal Fitness and 1 semester of team or individual sport

Students enrolled in Outdoor Education will learn about angling, camping, orienteering, and archery. Like the other high school physical education courses, Outdoor Education is concerned with the acquisition of physical fitness during the course and reinforcing the concept of incorporating physical activity into a life-style beyond high school.

0711 DANCE I

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Dance I provides instruction, practice and participation in Ballet, Jazz, Drill Team, Lyrical and Modern Dance. Emphasis in this course is placed on the basic fundamentals of individual dance technique, group dance movements and informal performance.

0712 DANCE II

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Dance I or approval from the Drill Team Director

Dance II addresses the elements of advanced dance skills in the areas of Ballet, Jazz, Drill Team, Lyrical and Modern Dance. Creative expression through movement, awareness of space, time and energy as design factors in dance technique and composition; development of self-confidence and an appreciation of dance as an art form. Participants have opportunities to perform, choreograph, compete in the area of dance, and view other dancers of their age group as well as professional dance.

0719 DRILL TEAM-PREP

Credits: 1

Grade Placement: 9 - 11

Semesters: 2

Prerequisite: none

Drill Team Prep is structured as a preparatory class for students interested in becoming a member of the drill team. Emphasis in this course is placed on the basic dance team fundamentals of the individual dance technique, group dance movement, and formal performance. Members of this class will be required to perform at community events, athletic venues and selected competitions throughout the year. Successful completion of this course does not guarantee a position on the drill team; students will still have to try-out for a position on the team.

0715 DRILL TEAM I**0716 DRILL TEAM II****0717 DRILL TEAM III****0718 DRILL TEAM IV**

Credits: 1

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Audition and director approval

This is a select group of students who perform at community and athletic events demonstrating their dance techniques. Must be concurrently enrolled in Advanced Dance. **This course does not count as Fine Arts credit; however, Advanced Dance does.**

0725 CHEERLEADING

Credits: ½ state PE credit Fall

½ local PE credit Spring

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Audition and director approval

1/2 state credit 1st semester and 1/2 credit 2nd semester

ATHLETICS

We encourage all students to participate in some area of our athletic program. Through participation in athletics, the student will become a better-rounded individual. Team work, discipline, the development of a good work ethic and learning to cope with success as well as disappointment are all experiences that help to prepare our students to be productive members of society.

Athletics requires a great deal of time and personal sacrifice. Practice times may be scheduled on Saturdays, holidays, in-service days, or before and after school. Athletes will be required to participate in all practice sessions and competitions as scheduled by the coaching staff. In most cases, transportation to and from workouts will be the responsibility of the athlete.

The courses listed under Athletics are sports that compete under the guidelines of the U.I.L. These courses are intended to develop competitive teams that represent Northwest Independent School District in district level contests. In some cases and especially in those sports where fewer numbers can participate at a given time in a game, the practice of cutting some athletes may be necessary.

If a student is going to participate in more than one sport, he/she should sign up the first one he/she will be participating in for the year. The month(s) listed for each sport are the times of competition. Otherwise, the students are in off-season and will be required to abide by all rules set by the coaching staff.

5100 GIRLS BASKETBALL (Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Positions on the team are determined through competitive tryouts. A schedule change is required in the event a student does not make the team. The season runs from October through the first week in March.

5175 GIRLS VOLLEYBALL (Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Positions on the team are determined through competitive tryouts. A schedule change is required in the event a student does not make the team. The season runs from the first Wednesday in August through November.

5300 BOYS BASKETBALL (Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Positions on the team are determined through competitive tryouts. A schedule change is required in the event a student does not make the team. The season runs from October through the second week in March.

5310 GIRLS SWIMMING 5310 BOYS SWIMMING (Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Swimming is practiced year-round outside of and during the school day. The swim team trains out of district in Keller. Swimmers are responsible for arranging transportation to the pool. Durham Transportation will provide bus service from Keller to each high school. The season runs from October through February.

5195 GIRLS DIVING
5195 BOYS DIVING
(Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Diving is practiced year-round outside of and during the school day. The dive team trains out of district in Keller. Divers are responsible for arranging transportation home from the pool. Durham Transportation will provide bus service from each high school to Keller. The season runs from October through February.

5120 GIRLS SOCCER
(Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Positions on the team are determined through competitive tryouts. A schedule change is required in the event a student does not make a team. The season runs from the Monday after Thanksgiving through April.

5320 BOYS SOCCER
(Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Positions on the team are determined through competitive tryouts. A schedule change is required in the event a student does not make a team. The season runs from the Monday after Thanksgiving through April.

5330 GIRLS GOLF
5330 BOYS GOLF
(Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Golf is practiced year-round outside of and during the school day. Positions on the team are determined through competitive tryouts. Students making a team will be placed into the class period once tryouts are complete in August. The fall season runs from September through October and the spring season is from January through May.

5150 GIRLS TENNIS
5150 BOYS TENNIS
(Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Tennis is practiced year-round outside of and during the school day. Positions on the team are determined through competitive tryouts. Students making a team will be placed into the class period once tryouts are complete in August. The competitive season for team tennis is from August 1st through the first week in November. Spring tennis' competitive season is from January through the first week in May.

5340 GIRLS CROSS COUNTRY
5340 BOYS CROSS COUNTRY
(Fall/Spring)

Credits: ½
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: None

Cross-country is practiced year-round outside of and during the school day. Students who participate in a team sport should not register for this course but may participate in the program. The season runs from August 1st through the first week in November.

5360 GIRLS ATHLETIC TRAINER
5360 BOYS ATHLETIC TRAINER
(Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Approved application

Athletic Training is an introduction to practical techniques in athletic training protocols and procedures. Student athletic trainers will be trained to assist certified trainers in treatment and rehabilitation of athletic injuries. Students will be assigned to a specific athletic training or setting to a team preparation area. Note: The class requires after school hours and travel to sporting events.

5380 BOYS BASEBALL
(Fall/Spring)

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: None

Positions on the team are determined through competitive tryouts. A schedule change is required in the event a student does not make a team. The season runs from January through June.

5180 GIRLS SOFTBALL
(Fall/Spring)

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: None

Positions on the team are determined through competitive tryouts. A schedule change is required in the event a student does not make a team. The season runs from January through June.

5370 FOOTBALL
(Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Football meets daily during fall and spring semesters. The season runs from August through December.

5393 WRESTLING
(Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Wrestling is practiced year-round outside of and during the school day. During the season, practice will begin prior to start of the school day. The season runs from October through February.

5345 GIRLS TRACK
5345 BOYS TRACK
(Fall/Spring)

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

Track is practiced year-round outside of and during the school day. The class period is for those students who specialize in track and field and do not participate in a team sport. The season runs from late November through May.

OTHER ELECTIVES

0308 ACADEMIC DECATHLON

Credits: 1 (Local)

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Teacher recommendation, coaches' approval

A nationally recognized and highly prestigious academic competition made up of a team of three students with GPAs between 3.0/4.0 and 3.75/4.0, and three students with GPAs 2.99/4.0 and below. The students study a directed curriculum covering subject matter in social studies, language and literature, science, economics, math, fine arts, and music. They must also present a prepared speech, give an impromptu talk on a given topic, and have an interview with three judges. One of the subjects each year will be tested in a quiz show type format. The regional competition takes place in January, state in April, and national in May. Students should have a sense of curiosity about many diverse topics, be able to absorb a lot of information in a relatively short period of time, and work well with others as a team. They must enjoy being challenged and must have a competitive nature. In addition to classroom time, the student must also be available on some Saturdays and on some evenings to prepare for the competition.

0924 PEER ASSISTANCE & LEADERSHIP I (PAL)

Credits: 1

Grade Placement: 11 - 12

Semesters: 2 (Double Blocked Class)

Prerequisite: Students who enroll in this course must have gone through the screening process and have been selected to participate. It is also requisite for students to meet minimum requirements of community service hours during the school year.

This course provides selected students with an opportunity to be trained to work as peer facilitators with younger students on their own campus or from feeder junior high and/or elementary schools. PAL students will learn skills which will enable them to help younger students have a positive and productive school experience.

0925 PEER ASSISTANCE & LEADERSHIP II (PAL II)

Credits: 1

Grade Placement: 12

Semesters: 2 (Double Blocked Class)

Prerequisite: Students who enroll in PAL II must have gone through the screening process and been selected to participate. It is also requisite for students to meet minimum requirements of community service hours during the school year.

PAL II class will have an increased emphasis on community service and students must perform community service individually as well as with the class. Peer Assistance and Leadership II is available to students who have completed PAL I and who have been selected for participation in PAL II during the spring semester of the previous year. This course contains elements of PAL I as well as training in Peer Mediation in order to facilitate the resolution of inter-student conflict on the high school campus.

0319 TEEN LEADERSHIP

Credits: 1

Grade Placement: 9

Semesters: 2

Teen Leadership is a course in which students develop leadership, professional, and business skills. Students will learn to establish healthy relationships, understand the concept of personal responsibility, teamwork, organization of projects, and self-awareness. Students perform student council projects involving health, safety, energy, environment, school pride, and community service.

0318 STUDENT LEADERSHIP

Credits: 1

Grade Placement: 10 - 12

Semesters: 2

Class for student council representatives, class officers, and students in other elected leadership roles. Students will receive training in leadership skills, teaming, consensus building, and cooperation. Part of the evaluation of students in this class will be based on service performed for the school and community. State credit for this course will be given only once.

**0900 STUDENT INTERN PROGRAM/
ADMINISTRATIVE PROCEDURES**

Credits: ½-1 Local

Grade Placement: 12

Semesters: 1-2

Prerequisite: Approval of Student Intern

Coordinator

(this course has limited enrollment)

The student intern program is designed to assist the student in developing a variety of skills in office management that include keyboarding, technology usage, filing, phone etiquette, and public relation skills. Students will implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workplace and/or post-secondary education. Students will be required to attend three class meetings each six weeks, before the regular school day.

0800 SAT/ACT PREPATORY

Credits: ½ Local

Grade Placement: 9 - 12

Semesters: 1

Prerequisite: None

A class designed to prepare students to take the PSAT/SAT and/or ACT tests required for college entrance. A combination of computer and teacher instruction will be used.

TECH-PREP

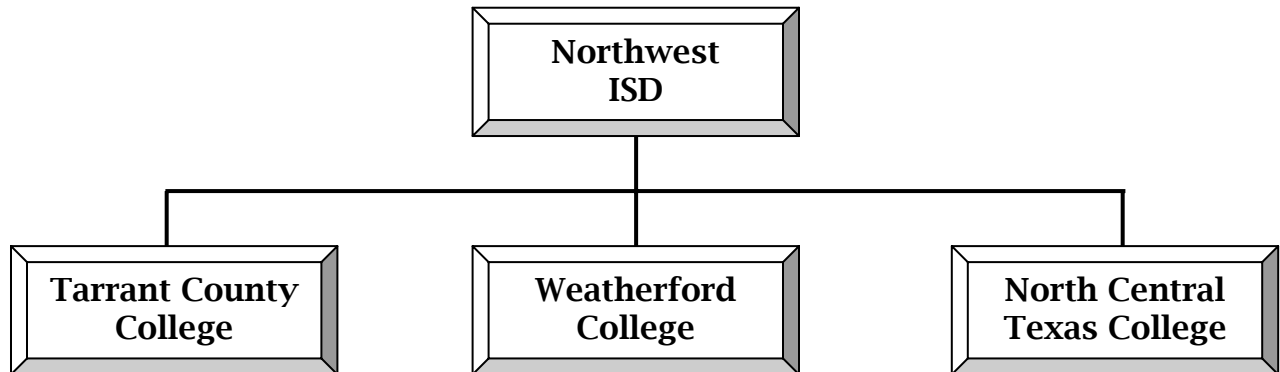
A PATHWAY TO A NEW FUTURE



Earn college credit while in high school

Tech-Prep is a wonderful opportunity for students to earn college credit while in high school and get advanced training for the work force. Tech-Prep students have the edge in finding work after graduation from high school or college.

This year Northwest ISD is offering Tech-Prep programs in conjunction with three (3) colleges in the area. Courses with an asterisk may be eligible for Tech-Prep credit. Students must check with individual college course credit table for specific articulation information.



★ **SEE YOUR COUNSELOR OR CTE TEACHER FOR DETAILS** ★

Career Pathways

54

Pathway Electives

9th Grade	10 th Grade	11 th Grade	12 th Grade
Agricultural Sciences – Animal Science: Emphasis on Veterinary Technology Available Certification: Veterinary Assistant Student Org			
<ul style="list-style-type: none"> ○ Intro to Ag Science (1/2) ○ Applied Ag Science & Technology (1/2) 	<ul style="list-style-type: none"> ○ Animal Science (1/2) ○ Equine Science (1/2) 	<ul style="list-style-type: none"> ○ Veterinary Asst Tech I (1) ○ Wildlife/Recreation Management (1/2) ○ Canine Science (1/2) 	<ul style="list-style-type: none"> ○ Veterinary Asst Tech II (1) ○ Diversified Career Preparati
Agricultural Sciences – Horticulture & Landscape Design: Available Certification: Floral Certification through Texas State Floral Association Student Organization: FFA			
<ul style="list-style-type: none"> ○ Intro to Horticulture Sciences (1/2) ○ Horticulture Plant Production (1/2) 	<ul style="list-style-type: none"> ○ Floral Design (1/2) ○ Advanced Floral Design (1/2) 	<ul style="list-style-type: none"> ○ Landscape Design (1/2) ○ Agriculture Science Independent Study (1/2) 	<ul style="list-style-type: none"> ○ Diversified Career Preparation (3) ○ Agriculture Science Independent Study (1)
Agricultural Sciences – Agricultural Mechanics: Available Certification: OSHA 10-Hour Safety & CPR Student Organization: FFA			
<ul style="list-style-type: none"> ○ Intro to Ag Science (1/2) ○ Applied Ag Science & Technology (1/2) 	<ul style="list-style-type: none"> ○ Introduction to Ag Mechanics I (1/2) ○ Introduction to Ag Mechanics II (1/2) 	<ul style="list-style-type: none"> ○ Agricultural Metal Fabrication Technology (1/2) ○ Agriculture Structures 	<ul style="list-style-type: none"> ○ Diversified Career Prep (3) ○ Communication Systems (1)
Health Science Technology: Available Certification: Pharmacy Technician & CPR Student Organization: HOSA			
<ul style="list-style-type: none"> ○ Introduction to Health Science Technology (1) 	<ul style="list-style-type: none"> ○ Health Science Technology I (1) 	<ul style="list-style-type: none"> ○ Medical Terminology (1/2) ○ Abnormal Psychology (1/2) ○ HST II (2) 	<ul style="list-style-type: none"> ○ Anatomy & Physiology (1) ○ Pharmacology (1/2) ○ HST III (2)
Business Administration: Emphasis on Financial Systems Student Organization: BPA			
<ul style="list-style-type: none"> ○ BCIS I (1) 	<ul style="list-style-type: none"> ○ Business Law (1/2) ○ Banking & Finance (1/2) 	<ul style="list-style-type: none"> ○ Accounting I (1) 	<ul style="list-style-type: none"> ○ Accounting II (1) ○ Diversified Career Prep (3)
Business Administration: Emphasis on Entrepreneurship & Marketing Student Organization: DECA			
<ul style="list-style-type: none"> ○ Marketing Yourself (1/2) ○ Public Speaking (1/2) 	<ul style="list-style-type: none"> ○ Web mastering (1) ○ BCIS I (1) 	<ul style="list-style-type: none"> ○ Sports & Entertainment Marketing (1/2) ○ Banking & Finance (1/2) 	<ul style="list-style-type: none"> ○ International Marketing (1/2) ○ Business Law (1/2) ○ Diversified Career Prep (3)
<p style="color: red;">Students do not need to take every course listed under each grade level. There are many options in each pathway – TALK TO YOUR COUNSELOR!</p>			

Career Pathways

55

Pathway Electives

	9th Grade	10 th Grade	11 th Grade	12 th Grade
Child Care and Education				
Available Certification: CPR Student Organization: FCCLA and Texas Association of Future Educators				
○ BCIS I (1) ○ Creative Writing I (1/2) ○ Creative Writing II (1/2)	○ Nutrition & Food Science (1/2) ○ Food Science Tech (1/2) ○ Individual & Family Life (1/2)	○ Child Development (1/2) ○ Prep for Parenting (1/2) ○ Ready, Set, Teach I (2)	○ Ready, Set, Teach, II (2) ○ Diversified Career Prep (3)	
Culinary & Hospitality Services:				
Available Certification: ServSafe Student Organization: FCCLA				
○ BCIS I (1) ○ Marketing Yourself (1/2) ○ Public Speaking (1/2)	○ Nutrition & Food Science (1/2) ○ Food Science Tech (1/2)	○ Hospitality Services I (2) ○ Diversified Career Prep I (3)	○ Hospitality Services II (2) ○ Diversified Career Prep II (3)	
Media Technology				
Student Organization: TSA				
○ Journalism (1)	○ Advanced Journalism I (1) ○ Photo Journalism (1)	○ Advanced Journalism II (1) ○ Web Mastering (1) ○ Multimedia (1)	○ Advanced Journalism III (1) ○ Digital Graphics & Animation (1)	
Pre-Engineering & Design				
Student Organization: TSA				
○ Communication Systems I (1) ○ Art I (1)	○ Engineering Graphics (1) ○ Digital Graphics & Animation (1)	○ Architectural Graphics (1) ○ Engineering (1)	○ Web Mastering (1) ○ Diversified Career Prep (3)	
Computer Technology				
Certification Available: CCNA, CCENT, Panduit Student Organization: TSA,				
○ Computer Science I (1)	○ Computer Science II (1) ○ Web Mastering (1)	○ Internetworking Technologies I (1) ○ Diversified Career Prep I (3)	○ Internetworking Technologies II (1) ○ Diversified Career Prep II (3)	
Students do not need to take EVERY course listed under each grade level. There are many options in each pathway – TALK TO YOUR COUNSELOR!				

It is the policy of Northwest ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its career and technical education programs, services, or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

CAREER & TECHNOLOGY EDUCATION

* *These courses may yield Tech-Prep credit.*

Health Science Technology Education

Health Science Technology Education is a comprehensive secondary education program for students who have an interest and desire to explore health careers. Students gain the knowledge and skills to make realistic health career choices. Students enhance their academic foundation through a strong science-based enrichment curriculum. Industry partnerships provide students with valuable hands-on experiences. Opportunities for leadership and citizenship development are available through membership and participation in Health Occupations Students of America (HOSA) and Skills USA.

0890 INTRODUCTION TO HEALTH SCIENCE TECHNOLOGY*

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: None

This course (full year) satisfies graduation requirements for Health Education.

Introduction to Health Science Technology is an introductory course designed for students interested in pursuing a career in health care. Topics will include diagnostic, therapeutic, informational, and environmental systems that function individually and cooperatively in the health care industry. Students are expected to learn the knowledge and skills necessary to pursue a health career through further education and/or employment.

0894 HEALTH SCIENCE TECHNOLOGY I*

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Biology

This course (full year) satisfies graduation requirements for Health Education.

Health Science Technology I is a course designed to develop health care specific knowledge and skills in effective communications, ethical and legal responsibilities, client care, safety, first aid and CPR. This course prepares the student for the transition to clinical or work based experience in health care.

0895 HEALTH SCIENCE TECHNOLOGY II*

Credits: 1 - 2
Grade Placement: 11 - 12
Semesters: 2 (Double Blocked Class)
Prerequisite: Health Science Technology I

This course satisfies graduation requirements for Physical Education.

These courses are designed to provide for the development of multi-occupational knowledge and skills related to a wide variety of careers in the medical and allied health fields. Students experience hands-on training for continued knowledge and skill development. The courses may include rotations in a hospital setting, physician's office, pharmacy, and other approved sites. (Scholarships are available for supplies and fees. (See Instructor)

0897 HEALTH SCIENCE TECHNOLOGY III*

Credits: 1 - 2
Grade Placement: 11 - 12
Semesters: 2 (Double Blocked Class)
Prerequisite: Health Science Technology II

This course satisfies graduation requirements for Physical Education.

These courses are designed to provide for the development of multi-occupational knowledge and skills related to a wide variety of careers in the medical and allied health fields. Students experience hands-on training for continued knowledge and skill development. The courses may include rotations in a hospital setting, physician's office, pharmacy, and other approved sites. (Scholarships are available for supplies and fees. (See Instructor)

0891 MEDICAL TERMINOLOGY*

Credits: ½
Grade Placement: 10 - 12
Semesters: 1
Prerequisite: None

Medical Terminology is a course designed to familiarize and educate students with the terminology related to the health care industry. The student will communicate, interpret, translate, and transcribe vocabulary and technical material related to health care. **This course is highly recommended for students interested in pursuing a career in health care.**

0893 ABNORMAL PSYCHOLOGY

Credits: ½
Grade Placement: 11 - 12
(Offered 2nd semester only)
Semesters: 1
Prerequisite: Health Science Technology I

Abnormal Psychology is an introduction to mental health services, careers, history, agencies, current issues and the difference between functional and dysfunctional behaviors. Students develop an awareness of the factors that affect mental health by exploring traditional and emerging treatment modalities.

0892 PHARMACOLOGY*

Credits: ½

Grade Placement: 12

(Offered 2nd semester only)

Semesters: 1

Prerequisite: Medical Terminology and Health Science Technology I

This course provides students with knowledge and skills in the classification and study of pharmacological agents to understand the treatment, care, and restoration of the client's health. Students will explore the practical applications of mathematics related to the disease process, dosage calculations, and interaction in the therapeutic care. An examination for a certification will be available upon successful completion of the course.

0211 ANATOMY AND PHYSIOLOGY OF HUMAN SYSTEMS*

Credits: 1

Grade Placement: 11 - 12

Semesters: 2

Prerequisite: Biology and Chemistry

Anatomy and Physiology of Human Systems is an introductory course designed primarily for students with interests in biological, medical, and health-oriented fields of study. Topics will include transport systems, metabolic processes, needs and responses of the body, anatomical structure and physiologic function. This course satisfies graduation requirements for science.

0898 INDEPENDENT STUDY IN HEALTH SCIENCE TECHNOLOGY

Credits: ½-1

Grade Placement: 12

Semesters: 1 - 2

Prerequisite: Three courses in Health Science in a coherent sequence and teacher approval

Students participate in a project-based learning experience developed by a student or group of students, teacher and an interdisciplinary mentor team. The project provides opportunities for an in-depth study of at least one aspect of the health care industry. The students or group demonstrates the ability to utilize a variety of resources, advanced technology and communications skills in the developments and presentation of the project. **Project can meet one of the criteria for the Distinguished Achievement Program.**

Business Education

This comprehensive program provides students with meaningful instruction both for business and about business, while being flexible and adaptable to the needs of industry and society. Students are provided broad, transferable concepts and competencies that allow them to enter the job market with the ability to function in new and emerging technological occupations as well as to reach maximum potential in higher education. Basic skills such as reading, writing, computation and computer technology expertise comprise the foundation of all business education courses. The student organizations for those enrolled in Business Education is the Business Professionals of America (BPA) or DECA-Delta Epsilon Chi for Marketing Education students.

0843 MARKETING YOURSELF/CAREER CONNECTIONS

Credits: ½

Grade Placement: 9

Semesters: 1

Prerequisite: 9th grade students only

This introductory course is designed as a personal development course. Students will use a systematic approach for evaluating and seeking career opportunities by discovering how personal qualities relate to successful performance. Each student develops a graduation plan based on their personal educational and career objectives.

0500 KEYBOARDING*

Credits: ½

Grade Placement: 9 - 12

Semesters: 1

Prerequisite: None

Prepares students to operate the keyboard by touch and begin development of acceptable speed and accuracy levels. Formatting of basic documents is also included. This course does NOT fulfill the Technology Applications credit required for graduation.

0845 BUSINESS COMPUTER PROGRAMMING I*

Credits: 1

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Keyboarding or demonstration of skills

This course satisfies the required Technology Applications graduation credit.

Students are introduced to computer programming in the Visual BASIC Language. Students will create and modify computer-based solutions to business-related problems.

**0839 BUSINESS COMPUTER
INFORMATION SYSTEMS I***

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
*Prerequisite: Keyboarding or
demonstration of skills*

This course satisfies the required Technology Application graduation credit.

Prepares students to apply technology skills to personal/workplace business situations. Students complete the course with an intermediate level skill in word processing, spreadsheet and database application.

**0840 BUSINESS COMPUTER
INFORMATION SYSTEMS II***

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
*Prerequisite: Business Computer
Information Systems I*

Business Computer Information Systems II provides advanced technology skills required in the business environment including workplace technology standards in applications of word processing, spreadsheets, data bases, telecommunications, desktop publishing, presentation management, networking, operating systems, and emerging technologies. Students will learn how to run a small electronic store/business and how to become a competent entrepreneur. **An examination for "MOS" certification will be available upon successful completion of the course.**

0504 BUSINESS LAW*

Credits: ½
Grade Placement: 11 - 12
(Offered 1st semester only)
Semesters: 1
Prerequisite: None

Business Law is designed to provide an understanding of civil, criminal and commercial law as applied to everyday life. Students will understand the need for laws, the court system, contracts, credit bailments, wills, employment, real property and personal property.

**0503 BANKING AND FINANCIAL
SYSTEMS***

Credits: ½
Grade Placement: 11 - 12
(Offered 2nd semester only)
Semesters: 1
Prerequisite: None

Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, and international dimensions of business to make appropriate business decisions.

0506 ACCOUNTING I*

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: None

Introduces students to accounting concepts, principles and procedures. The course emphasizes the skills, knowledge and attitudes necessary for individuals to conduct personal business or to further their education in the field of accounting.

0507 ACCOUNTING II*

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Accounting I

Develops accounting skills necessary to continue education at the post secondary level or enter the workforce.

**0502 SPORTS AND ENTERTAINMENT
MARKETING**

Credits: ½
Grade Placement: 11 - 12
(Offered 1st Semester only)
Semesters: 1
Prerequisite: None

The Dallas-Ft. Worth area abounds in employment opportunities in sports and entertainment marketing. Sports and Entertainment Marketing provides opportunities to explore marketing as a career choice, especially in the sports and entertainment fields. Eligibility to join DECA, a national student organization for marketing students, adds another dimension to this class (leadership, competition).

0505 INTERNATIONAL MARKETING

Credits: ½
Grade Placement: 11 - 12
(Offered 2nd Semester only)
Semesters: 1
Prerequisite: None

This course teaches principles of business and marketing with a focus on international marketing. Concepts of economics and free enterprise and the understanding of human resource skills that an effective marketer must possess are included as the foundation for the study of international marketing. Understanding these concepts allows students to know the interrelationship between business and marketing. Eligibility to join DECA, a national student organization for marketing students, adds another dimension to this class (leadership, competition).

Family and Consumer Sciences Education

Family and Consumer Sciences Education prepares students for personal and family life as they manage the challenges of living and working in a diverse, global society. The student organization, Family, Consumer and Community Leaders of America (FCCLA), provides opportunities for personal growth and leadership development.

0803 NUTRITION AND FOOD SCIENCE*

Credits: ½
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: None

Provides students with nutrition, food choices and food management skills for individuals and the family throughout the life cycle. Career options and techniques for managing multiple family, community and wage-earner roles and cultural traditions and preparation techniques are part of the content.

0804 FOOD SCIENCE AND TECHNOLOGY*

Credits: ½
Grade Placement: 9 - 12
Semesters: 1
Prerequisite: Nutrition and Food Science

This laboratory course provides an in-depth study of the significance of nutrition. It addresses the knowledge and skills needed to study food science, processing, marketing, and technology and food preparation. A strong emphasis will be placed on cultural foods. A study of careers in the field of restaurant management and food service will be explored.

0806 INDIVIDUAL AND FAMILY LIFE*

Credits: ½
Grade Placement: 9 - 12
(Offered 1st semester only)
Semesters: 1
Prerequisite: None

Focuses on personal development, interpersonal relationships, effective individual and family functioning and career preparation - all within a changing society.

0805 INTERIOR DESIGN

Credits: ½
Grade Placement: 9 - 12
(Offered 2nd semester only)
Semesters: 1
Prerequisite: None

Helps students discover the adventure of planning, designing and furnishing a home. Students study housing styles, furniture periods and styles along with the history of furniture.

0810 CHILD DEVELOPMENT*

Credits: ½
Grade Placement: 9 - 12
(Offered 1st semester only)
Semesters: 1
Prerequisite: None

Provides opportunities to develop knowledge and skills in preparation to function effectively in the role of parent and caregiver. Career options related to the childcare industry will be explored.

0807 PREPARATION FOR PARENTING*

Credits: ½
Grade Placement: 9 - 12
(Offered 2nd semester only)
Semesters: 1
Prerequisite: None

This technical laboratory course is designed to provide opportunities to develop knowledge and skills in preparation to function effectively in the role of parent or caregiver. Content stresses considerations influencing the decision to parent, parental responsibilities, child guidance techniques, parents as positive role models, parents as their children's first teachers, and parenting practices which promote a child's development, health, safety, and well-being. Managing family crises, managing multiple roles of family members throughout the life cycle, managing media in technology to promote a positive influence on children, and career preparation are additional topics.

0860 HOSPITALITY SERVICES I (HOTEL AND RESTAURANT MANAGEMENT) *

Credits: 2
Grade Placement: 11 - 12
Semesters: 2 (Double Blocked Class)
Prerequisite: Nutrition and Food Science

Hospitality Services I is a two credit class available to Junior and Senior students who are interested in Culinary and Hotel Restaurant Management careers. Under teacher's supervision, students will intern at a partnering hotel to learn all aspects of this exciting career. Students will gain skills and knowledge to obtain a "ServSafe" certification which is recognized throughout the industry. **This course satisfies graduation requirements for Physical Education.**

**0861 HOSPITALITY SERVICES II
(HOTEL AND RESTAURANT
MANAGEMENT) ***

Credits: 2

Grade Placement: 12

Semesters: 2 (Double Blocked Class)

Prerequisite: Hospitality Services I

Hospitality Services II is a two credit class available to Senior students who are interested in Culinary and Hotel Restaurant Management careers. Under teacher's supervision, students will intern at a partnering hotel to learn all aspects of this exciting career. **This course satisfies graduation requirements for Physical Education.**

0808 READY SET TEACH I*

Credits: 2

Grade Placement: 11 - 12

Semesters: 2 (Double Blocked Class)

Prerequisite: Child Development and Business Computer Information Systems recommended

This course provides students the experience of on-site observation and training in the teaching field. Course content also provides enrichment opportunities including speakers, class instruction, and on-site visits to community agencies and services pertaining to education. Because students in this class will be functioning directly in a teaching environment, it is important that they have excellent reading and writing skills. Appropriate attire is required for field experience. **This course satisfies graduation requirements for Physical Education.**

0809 READY SET TEACH II*

Credits: 2

Grade Placement: 11 - 12

Semesters: 2 (Double Blocked Class)

Prerequisite: Child Development and Business Computer Information Systems

Ready, Set, Teach II is the second year of the field-based internship which provides students background knowledge of child and adolescent development principles as well as principles of effective teaching practices. Students in Ready, Set, Teach II work under the joint direction and supervision of both a family and consumer science teacher and exemplary educators in a direct instructional roles with elementary or middle-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers. **This course satisfies graduation requirements for Physical Education.**

**0862 PARENTING EDUCATION FOR
SCHOOL AGE PARENTS I
0863 PARENTING EDUCATION FOR
SCHOOL AGE PARENTS II**

Credits: ½ per semester

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Recommended for students who are pregnant or parenting

This laboratory course is designed to address the special needs and interests of the school-aged students who are or will be parents. Special emphasis is placed on parental care and development, postnatal care, child development, infant care, and parenting skills. Other units of study address personal development, responsible parenthood and adult roles, family problems and crises, conflict resolution, family health issues, nutrition, safety, management, and employability skills.

**0853 INDEPENDENT STUDY IN
FAMILY AND CONSUMER
SCIENCES**

Credits: ½ - 1

Grade Placement: 12

Semesters: 1-2

Prerequisite: Three courses in Family and Consumer Sciences in a coherent sequence and teacher approval

This course provides for a student-based independent study project developed by the student and conducted under the supervision of the teacher and a mentor from an industry related to the project focus. The student will conduct research including application of the scientific method of investigation, data collection, and data analysis. The project is presented to a review panel that includes professionals in the field of the project focus. **This project can meet one of the criteria for the Distinguished Achievement Program.**

Agriculture Science and Technology Education

This program is designed to develop competencies needed by high school students to enter agricultural science and technology occupations. Future Farmers of America (FFA) activities are an integral part of the agricultural science and technology education program. Opportunities for developing skills in leadership, cooperation, and citizenship are provided through extension of classroom/laboratory learning experiences by membership and participation in this student leadership organization.

0812 INTRODUCTION TO AGRICULTURAL SCIENCE AND TECHNOLOGY

Credits: ½
Grade Placement: 9 - 10
(Offered 1st semester only)
Semesters: 1
Prerequisite: None

A basic course designed to study global agriculture. This course includes agricultural career development, leadership, communications and personal finance and offers competition opportunities through the Future Farmers of America student organization.

0813 APPLIED AGRICULTURAL SCIENCE AND TECHNOLOGY*

Credits: ½
Grade Placement: 9 - 10
(Offered 2nd semester only)
Semesters: 1
Prerequisite: Intro to World Agricultural Science and Technology

Enhances the agricultural comprehension of young adults. The course includes a study of soils, plants, animals, agricultural construction, food science, supervised agricultural experience programs and leadership.

0818 ANIMAL SCIENCE*

Credits: ½
Grade Placement: 10 - 12
Semesters: 1
Prerequisite: None

A technical course designed to develop knowledge and skills pertaining to the nutrition, reproduction, health and management of domestic livestock. This course follows Plant and Animal Production.

0832 EQUINE SCIENCE*

Credits: ½
Grade Placement: 10 - 12
Semesters: 1
Prerequisite: None

Develops knowledge and skills pertaining to the selection, nutrition, reproduction, health, and management of horses. Students will be exposed to horse judging and may visit local horse ranches.

0837 VETERINARY ASSISTANT TECHNOLOGY

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Completion of two of the following six courses: Animal Science, Animal & Plant Science, Wildlife Science, Pharmacology, Medical Terminology, Equine Science and Anatomy & Physiology

An applied science course that provides an in-depth study of veterinary terminology, anatomy and physiology, clinical examination procedures, laboratory techniques, medical imaging, surgical preparation office management, common animal afflictions, and animal nutrition. Career opportunities, leadership and record keeping are included in the year-long course. **An examination for a "Certified Veterinary Assistant" certification will be available upon successful completion of the course.**

0837 VETERINARY ASST TECHNOLOGY II

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Completion of two of the following six courses: Animal Science, Animal & Plant Science, Wildlife Science, Pharmacology, Medical Terminology, Equine Science and Anatomy & Physiology

An applied science course that provides an in-depth study of veterinary terminology, anatomy and physiology, clinical examination procedures, laboratory techniques, medical imaging, surgical preparation office management, common animal afflictions, and animal nutrition. Career opportunities, leadership and record keeping are included in the year-long course. **An examination for a "Certified Veterinary Assistant" certification will be available upon successful completion of the course.**

<p>0836 AGRICULTURAL SCIENCE INDEPENDENT STUDY Credits: ½ Grade Placement: 11 - 12 Semesters: 1 <i>Prerequisite: Teacher approval</i></p>	<p>A project-based learning experience developed by a student or group of students, teacher, and an interdisciplinary mentor team. The project provides opportunities for an in-depth study of at least one aspect of the agricultural science and technology area. The student or group demonstrates the ability to utilize a variety of resources, advanced technology, and communication skills in the development and presentation of the project. Project may be considered for the Distinguished Achievement Program requirements for advanced measures.</p>
<p>0822 WILDLIFE AND RECREATION MANAGEMENT* Credits: ½ Grade Placement: 10 - 12 Semesters: 1 <i>Prerequisite: None</i></p>	<p>Students examine the importance of wildlife and outdoor recreation with emphasis on using wildlife and natural resources. Hunter Safety Certification may be obtained during this course. An examination for a certification will be available upon successful completion of the course.</p>
<p>0833 SPECIALTY AGRICULTURAL/ CANINE SCIENCES Credits: ½ Grade Placement: 10 - 12 (Offered 1st semester only) Semesters: 1 <i>Prerequisite: None</i></p>	<p>This course is designed to emphasize the selection, production, and marketing of canines and other specialty animal species. This course will cover the common breeds of dogs, training of agricultural, guard, and sporting canines. Record keeping, career opportunities, and leadership will also be included in the instruction.</p>
<p>0821 INTRODUCTION TO HORTICULTURAL SCIENCES* Credits: ½ Grade Placement: 9 - 12 (Offered 1st semester only) Semesters: 1 <i>Prerequisite: None</i></p>	<p>This hands-on course focuses on the identification, production and care of plants. The students will study propagation, fertilizing, transplanting and growing of plant species. Special campus projects will be available to students.</p>
<p>0838 HORTICULTURE PLANT PRODUCTION* Credits: ½ Grade Placement: 9 - 12 (Offered 2nd semester only) Semesters: 1 <i>Prerequisite: Introduction to Horticulture</i></p>	<p>Horticulture Plant Production is a course designed to develop skills in the production of greenhouse/nursery plants and the maintenance of plant growth and propagation structures. Industry partners will be included as contacts for guest speakers, field trips, internships, and part-time jobs for students. Designed to follow Introduction to Horticulture.</p>
<p>0827 FLORAL DESIGN AND INTERIOR LANDSCAPE MANAGEMENT Credits: ½ Grade Placement: 10 - 12 (Offered 1st semester only) Semesters: 1 <i>Prerequisite: None</i></p>	<p>Floral Design and Interior Landscape Management is a course designed to prepare students to design and arrange floral materials and tropical and blooming plants for special occasions and for use and placement in interior locations. Topics include identification and classification, fresh flowers, foliage care and handling, and design principles. Also included is related information on tropical foliage and blooming plant identification, interior landscape design, cultural requirements and tasks for maintaining healthy interior plants.</p>
<p>0824 ADVANCED FLORAL DESIGN Credits: ½ Grade Placement: 10 - 12 (Offered 2nd semester only) Semesters: 1 <i>Prerequisite: Floral Design & Interior Landscape Management</i></p>	<p>Advanced Floral Design examines floral design and its relationship to contemporary designs, business practices, specialty items, creativity, and careers in the floral industry. Major areas of emphasis are design and construction of wedding and sympathy arrangements, arrangements for holidays and special occasions, and contemporary and artistic interpretation designs. Related topics include floral business operations and consultants, design techniques, and specially cut flowers identification and classification.</p>

**0819 LANDSCAPE DESIGN,
CONSTRUCTION, AND
MAINTENANCE***

Credits: ½
Grade Placement: 10 - 12
(Offered 2nd semester only)
Semesters: 1
Prerequisite: None

This is a hands-on course that prepares student to design, construct, and maintain planted areas and devices for the beautification of home grounds and other areas of human habitation and recreation.

**0814 INTRODUCTION TO
AGRICULTURAL MECHANICS I***

Credits: ½
Grade Placement: 10 - 12
Semesters: 1
Prerequisite: None

A course designed to familiarize students with basic theory and specialized skills in agricultural mechanics. Tool identification and shop safety are stressed. This class emphasizes welding processes and metal construction.

**0823 INTRODUCTION TO
AGRICULTURAL MECHANICS II***

Credits: ½
Grade Placement: 10 - 12
Semesters: 1
Prerequisite: Agricultural Mechanics I

A shop course designed to prepare students to improve and maintain the urban or rural home and adjacent buildings. Students will be taught to analyze repair needs and use approved safety techniques.

**0816 AGRICULTURAL METAL
FABRICATION TECHNOLOGY***

Credits: ½
Grade Placement: 11 - 12
(Offered 1st semester only)
Semesters: 1
*Prerequisite: Intro to Agricultural
Mechanics or teacher approval*

Develops proficiency in metal fabrication. Students will learn to use the cutting torch, flat, horizontal and vertical welding as well as pipe and structural welding using a variety of advanced metal fabrication equipment.

0817 AGRICULTURAL STRUCTURES*

Credits: ½
Grade Placement: 11 - 12
(Offered 2nd semester only)
Semesters: 1
*Prerequisite: Agricultural Metal Fabrication
Technology or teacher approval*

A technical course preparing students to maintain, evaluate, design, and build agricultural structures using approved construction techniques.

Technology Education

Technology Education is concerned with the knowledge and skills to develop, produce, and use products or services, and how to assess the impacts these activities have on humans and the world. The Technology Student Association (TSA), the student organization for students enrolled in Technology Education, is an avenue by which leadership, citizenship, and technical skills are provided as an integral part of the instructional program.

**0842 DIGITAL GRAPHICS AND
ANIMATION***

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
*Prerequisite: Keyboarding or
demonstration of skills*

This course satisfies the Technology Applications graduation requirement.

A course designed to explore the use of computers in the communication, advertising, digital graphics and animation fields. Activities include: 3D animation and design using Cinema 4D, digital graphics using Adobe Photoshop CS3, and motion graphics using Adobe After Effects CS3. In addition, students will learn sound recording and editing, and DVD creation which includes building animated menus with sound.

0841 COMMUNICATIONS SYSTEMS*

Credits: 1

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: None

Communications Systems introduces students to the concepts of technical drawing and computer aided drawing. This basic course is designed for beginning high school students who are interested in technical drawing to gain knowledge in drafting, engineering, industrial design, architecture, or one of the many professions requiring knowledge of technical drawing. Students will learn to use current CAD software which is used in industry by designers and engineers to create 2D and 3D drawings. Students will have an opportunity to enter projects in the regional and state Technology Student Association competitions.

0825 ENGINEERING GRAPHICS*

Credits: 1

Grade Placement: 10 - 12

Semesters: 2

Prerequisite: Communication Systems

A technical course in lettering, engineering geometry, multi-view drawings, sectioning, pictorial representation, dimensioning, and detail and assembly drawings. This course is taught with conventional and computerized equipment.

0826 ARCHITECTURAL GRAPHICS*

Credits: 1

Grade Placement: 11 - 12

Semesters: 2

Prerequisite: Communication Systems or Engineering Graphics

A technical course in principles of residential design, architectural styles, and construction practices. Activities focus on the development of original working drawings, presentation drawings and model building. This course is taught with conventional and computerized equipment.

0830 RESEARCH DESIGN AND DEVELOPMENT

Credits: 1

Grade Placement: 12

Semesters: 2

Prerequisite: Two technology education courses in an approved coherent sequence and teacher approval

Students participate in a project-based learning experience developed by a student or group of students, teacher, or an interdisciplinary mentor team. The project provides opportunities for an in-depth study of at least one aspect of an engineering or technology area. Participants will demonstrate the ability to utilize a variety of resources, advanced technology and communications skills in the development and presentation of the project. This project can meet one of the criteria for the Distinguished Achievement Program.

0831 ENGINEERING: OUR DIGITAL FUTURE

Credits: 1

Grade Placement: 10 - 12

Semesters: 2

Prerequisite: Algebra II or concurrent enrollment, biology, physics or chemistry

Students explore, design and experiment in various engineering disciplines and apply mathematical and scientific concepts to real life problems. Areas of study include robotics, aerospace and flight, and analog and digital electronics. Students will participate in the Infinity Project, a curriculum developed through a partnership between Southern Methodist University and Texas Instruments that explores the use of digital electronics in the Internet, cell phones, digital video, and electronic music. Students will have the opportunity to earn the Technician Class amateur radio operator's license issued by the Federal Communications Commission.

Technology Applications

The Technology Applications curriculum is designed to provide students the programming skills needed in the use of computers and packaged computer software in real-life applications. The span of courses offered addresses applications in word processing, data processing, accounting, mathematics, statistics, and science. The student organizations for those enrolled in Technology Applications is the Business Professionals of America (BPA) or the Technology Student Association (TSA).

The following courses are approved for Technology Applications credit.

0849P PreAP COMPUTER SCIENCE I

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Geometry or concurrent enrollment, keyboarding or demonstration of skills

This course satisfies the Technology Applications graduation requirement. This beginning programming course emphasizes problem solving and logic. Solutions are created using the Visual Basic .Net language. Java programming language is introduced.

0850A COMPUTER SCIENCE II/ AP COMPUTER SCIENCE A*

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: PreAP Computer Science I or teacher approval

This course satisfies the Technology Applications graduation requirement. This college level computer science course is designed to prepare students for the "A" Advanced Placement Computer Science Examination and is recommended for college bound students who wish to major in computer science or an analytical field. This course includes the study of advanced programming techniques, file management, data structures and an introduction to Object-Oriented Programming. Java is the language used for completing program assignments. **The district's expectation is that the student will take the appropriate AP test.**

0844 MULTIMEDIA*

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Keyboarding or demonstration of skills

This course satisfies the Technology Applications graduation requirement. A laboratory-oriented course that provides a broad understanding of the various careers in the media and communications fields. Students will create products in digital photography, desktop publishing, web design, and video. Students will gain knowledge and skills in the application, design, production and assessment of these products. Students can apply and transfer their academic knowledge and skills to a variety of interesting and relevant activities.

0846 WEB MASTERING*

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Keyboarding or demonstration of skills

This course satisfies the Technology Applications graduation requirement. Students will develop proficiencies in designing, importing, and manipulating text, graphics, audio, and video used in presentation management, and multimedia productions using various software applications: Flash, Photoshop, Photo Story, Movie Maker, Audacity, and PowerPoint. Students will create web pages using HTML and a WYSIWYG editor. - Dreamweaver.

0834 INDEPENDENT STUDY IN TECHNOLOGY APPLICATIONS

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Technology Application course and teacher approval

This course is project-based and designed for students to learn to make informed decisions about technology and their applications. This includes identification of task requirements, plan for using search strategies, and the use of technology to access, analyze and evaluate information. Students, working individually or in teams, will communicate information in different formats and to diverse audiences.

CISCO NETWORKING ACADEMY CURRICULUM

Cisco Systems, Inc. is a networking software and hardware company. The Cisco Academy Curriculum has been developed by Cisco Systems, Inc. to prepare students to enter careers in networking and computer industries. The curriculum is being developed under recognized industry standards.

This is a two-year program designed to begin the student's junior year. They will receive information needed to prepare them for the Cisco Certified Networking Associate Exam. In addition, this program will give students a solid foundation for further study at the college level in highly sought after technical disciplines. Summer internships will be encouraged.

A student organization for those enrolled in Technology Applications is the Business Professionals of America (BPA).

These courses do NOT fulfill the Technology Applications credit required for graduation.

08701 INTERNETWORKING TECHNOLOGIES I

Credits: ½
Grade Placement: 10 - 12
Semesters: 1 (fall semester only)
Prerequisite: Geometry and keyboarding or demonstration of skills

Students will complete the Panduit Network Infrastructure Essentials (PNIE) course study which covers basic cable installation knowledge, how to build and administrate the physical layer of network infrastructure, and deeper understanding of the networking devices that this layer interconnects. This course aligns to the industry recognized Panduit Certified Installer (PCI) certification (which will be offered, fee to be determined).

08702 INTERNETWORKING TECHNOLOGIES I

Credits: ½
Grade Placement: 10 - 12
Semesters: 1 (spring semester only)
Prerequisite: Successful completion of first semester Internetworking Technologies I

Students will complete the first course of the Cisco CCNA Discovery course series. This course titled "Networking for Home and Small Businesses" introduces the basics of networking including network terminology, local area networks (LAN) and wide area networks (WAN). Topics include operating systems, network protocols such as TCP/IP, Open System Interconnection (OSI), models, cabling and routers including wireless technology and basic security. This course is the first step towards student preparing for Cisco's new entry-level CCERT certification.

08711 INTERNETWORKING TECHNOLOGIES II*

Credits: ½
Grade Placement: 11 - 12
Semesters: 1 (fall semester only)
Prerequisite: Internetworking Technologies I and passing all parts of the CISCO Networking Academy

Students will complete the second course of the Cisco CCNA Discovery course series. Topics in the course titled "Networking for Home and Small Businesses" include: Help Desk, planning network addressing and upgrades, configuring network devices, routing, and ISP services and responsibilities.

08712 INTERNETWORKING TECHNOLOGIES II*

Credits: ½
Grade Placement: 11 - 12
Semesters: 1 (spring semester only)
Prerequisite: Successful completion of all parts of the first semester of Internetworking Technologies II.

Students will prepare to take the Cisco ICND1 (640-822) certification exam which will earn them the Cisco CCENT entry-level certification.

WORK BASED LEARNING

Work based learning courses require that student's work a minimum of fifteen (15) hours per week; ten (10) of those hours must be during the school week.

0820 DIVERSIFIED CAREER PREPARATION

Credits: 2 - 3
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Instructor approval and complete application for admission to the work-based learning program

This course prepares students for gainful employment in approved occupations within various program areas. The program areas are Business, Family and Consumer Science, Agricultural, and Industry. Can be taken for 2 or 3 credits. Two credits require a minimum of 10 work hours per week. Three credits require a minimum of 15 hours per week. **This course satisfies the Physical Education graduation requirement.**

EARLY COLLEGE / DUAL CREDIT

The early college admissions program allows academically talented junior and senior level students to enroll in area college courses concurrently with high school studies. To be eligible for Dual Credit courses a student must have an 80 or above GPA and may not have had prior disciplinary or attendance problems. In addition, principal, counselor, or designee approval is required. Dual credit may be given for board approved courses. Grades are not involved in class ranking and GPA level. The student must also be approved by the admissions office of the accepting university. Because this program allows the student the opportunity to earn high school and college credit, the student is expected to abide by the rules and regulations of both institutions. The course will be counted as part of the student's daily schedule. While these courses will earn college credit and will be recorded on a formal transcript, the transferability of these courses to another university rests solely with the accepting institution. Students should consult the admissions officer of the appropriate institution for information regarding the transfer of credit. **Taking the THEA (college test) is required prior to enrolling in the college classes. Registration for the test is the responsibility of the student. If other courses meet TEKS requirements, they will be considered on an individual basis.**

The student is responsible for the payment of all tuition, books, and fees, as well as providing for his/her own transportation. These are college classes and are taught as such. Any grade earned lower than a "C" will not receive high school credit.

D0880 COLLEGE ENGLISH

Credits: ½
Grade Placement: 12
(Offered 1st semester only)
Semesters: 1
Prerequisite: Parent, counselor, principal, and college approval; THEA Test

D0880 COLLEGE ENGLISH

Credits: ½
Grade Placement: 12
(Offered 2nd semester only)
Semesters: 1
Prerequisite: First semester college English, parent, counselor, principal, and college approval; THEA Test.

D0881 COLLEGE GOVERNMENT

Credits: ½
Grade Placement: 11 - 12
(Offered 1st semester only)
Semesters: 1
Prerequisite: Parent, counselor, principal, and college approval; THEA Test

D0882 COLLEGE ECONOMICS

Credits: ½
Grade Placement: 11 - 12
(Offered 2nd semester only)
Semesters: 1
Prerequisite: Parent, counselor, principal, and college approval; THEA Test

D0883 2425 COLLEGE ENGINEERING PHYSICS I

Credits: ½
Grade Placement: 11 - 12
Semesters: 1
(Fall only)
Prerequisite: Parent, counselor, principal, and college approval; PreAP Physics, PreAP Precalculus or concurrent enrollment in PreAP Precalculus; THEA Test

D0884 2426 COLLEGE ENGINEERING PHYSICS II

Credits: ½
Grade Placement: 11 - 12
Semesters: 1
(Spring only)
Prerequisite: PHYS 2425; Parent, counselor, principal, and college approval; PreAP Physics, AP Calculus or concurrent enrollment in AP Calculus; THEA Test

D0885 1411 COLLEGE GENERAL CHEMISTRY I

Credits: ½
Grade Placement: 11 - 12
Semesters: 1
(Fall only)
Prerequisite: Parent, counselor, principal, and college approval; PreAP Chemistry, Algebra II; THEA Test

D0886 1412 COLLEGE GENERAL CHEMISTRY II

Credits: ½
Grade Placement: 11 - 12
Semesters: 1
(Spring only)
Prerequisite: Parent, counselor, principal, and college approval; PreAP Chemistry, Algebra II; THEA Test

D0887 1408 COLLEGE GENERAL BIOLOGY

Credits: ½
Grade Placement: 11 - 12
Semesters: 1
Prerequisite: Parent, counselor, principal, and college approval; three credits of high school lab science; THEA Test

D0888 2406 COLLEGE ENVIRONMENTAL BIOLOGY

Credits: ½
Grade Placement: 11 - 12
Semesters: 1
Prerequisite: Parent, counselor, principal, and college approval; three credits of high school lab science; THEA test

D0889 AEROSPACE AVIATION TECHNOLOGY

Credits: 3
Grade Placement: 12
Semesters: 2
Prerequisite: Parent, counselor, principal and college approval; Algebra I, Algebra II, passed TAKS; must pass the reading portion of the Accuplacer Test

Taught at Tarrant County College Northwest Campus. See college catalog for info on credits and times.

SPECIAL EDUCATION

1011 ADAPTIVE PHYSICAL EDUCATION

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Placement by ARD meeting

The Adaptive Physical Education (APE) course is designed to allow maximum participation and use of motor skills. The class is also a vehicle to enhance student social skills. All students will participate in physical education with individual modifications through APE. The students participate in all activities with the support of the APE and physical education staff.

1029 OCCUPATION PREPARATION I

Credits: 1
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Placement by ARD meeting

This course is designed to introduce students to the fundamental attitudes, behaviors, and habits needed to obtain and maintain employment in their career choice and make career advancements. Students will participate in school-based learning activities including work ethic development, job-seeking skills, decision-making skills, and self-management. Students will be involved in on-campus vocational training activities such as school factories, work-based enterprises, hands-on vocational training in the operation of small businesses. Formal career planning and development of knowledge regarding transition planning begins in this course and continues throughout the strand of Occupational Preparation courses.

1030 OCCUPATIONAL PREPARATION II

Credits: 1
Grade Placement: 11 - 12
Semesters: 2
Prerequisite: Placement by ARD meeting

This course is designed to allow students to continue the development and begin the application of skills learned in Occupational Preparation I. Work-based learning activities are provided including community-based training, job shadowing, job sampling, internships, situational assessment, cooperative education, and apprenticeships. These work-based activities allow students to apply employability skills to competitive employment settings and demonstrate the effectiveness of their work personality. Students will participate in an off-campus learning experience.

1031 OCCUPATIONAL PREPARATION II – WORK STUDY COMPONENT

Credits: By ARD decision
Grade Placement: 10 - 12
Semesters: 2
Prerequisite: Placement by ARD meeting

This course emphasizes the development of skills generic to all career majors' resource management, communication, interpersonal relationship skills, technology, stamina, endurance, safety, mobility skills, motor skills, teamwork, sensory skills, problem solving, cultural diversity, information acquisition/management and self-management. This course content is focused on providing for future career application. Students will expand their school-based learning activities to include on-campus jobs and begin some work-based learning activities.

1021-1028 VOCATIONAL ADJUSTMENT CLASS (VAC)

Credits: By ARD decision
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Placement by ARD meeting

A work release program which allows students to receive credit for working part-time in the community. Topics addressed include application/interview skill development, personal management and job success, money management, interpersonal relationships on the job, and consumer economics. Students must provide transportation.

B0821 CTED HORTICULTURE

Credits: 1
Grade Placement: 9 - 12
Semesters: 2
Prerequisite: Placement by ARD meeting

This hands on course focuses on the identification, production, and care of plants. The student will study propagation, fertilization, transplanting, and growing of plant species.

**B0839 CTED BUSINESS
COMMUNICATION
INFORMATION SYSTEMS**

Credits: 1

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Placement by ARD meeting

This course prepares students to apply technology skills to personal/workplace business situations. Students develop skills in word processing, spreadsheets, and database applications.

1032-1033 LIFE SKILLS

Credits: By ARD decision

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Placement by ARD meeting

The Life Skills program consists of Functional Social Studies, Functional English, Functional Math, Functional Science, and Functional Health. These courses are designed to prepare students to obtain their highest level of independence by teaching skills such as safety, personal hygiene, food preparation, basic housework, social skills, handling money, and leisure and recreation activities. There is on-site vocational training and life skill training in the community. A hands-on approach is used in individualized instruction and with collaborative learning. These are modified and skills development courses.

**1041 SOCIAL EMOTIONAL
ASSISTANCE CLASS (SEAC)**

Credits: By ARD decision

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Placement by ARD meeting

The Social Emotional Assistance Class (SEAC) is a self-contained classroom for students who present behavior and/or emotional problems which interfere significantly with achievement in the general education setting. The program provides a safe, highly structured classroom environment to minimize problematic behaviors, teaches the student appropriate replacement behaviors, and assists the student in reaching his or her educational goals.

1001-1004 BASIC ENGLISH I - IV

Credits: 1

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Placement by ARD meeting

The goal of this course is to create a knowledge and appreciation for both modern and classic literature, all the while developing reading and writing skills in each individual student. Group activities and hand-on projects are designed to make the literature come alive in the classroom. Written assignments create a link between the literature and the reality of the student.

B0104 APPLIED ALGEBRA I

Credits: 1

Grade Placement: 9

Semesters: 2

Prerequisite: Placement by ARD meeting

Applied Algebra I involves concepts, skills, and properties associated with real numbers. Linear equations and inequalities are developed with a functions-based approach and multi-representations. Additional topics include solving systems of equations, polynomials, probability, and statistics. Graphing calculators will be used to explore and analyze problem situations.

B0112 APPLIED GEOMETRY

Credits: 1

Grade Placement: 10

Semesters: 2

Prerequisite: Placement by ARD meeting/Applied Algebra I

Geometry is the study of figures of zero, one, two, and three dimensions. Students use spatial reasoning and geometric thinking to study properties of size, shape, location, direction, and orientation of figures, the connection between algebra and geometry, and the application to real world problem solving.

**B0108 APPLIED MATHEMATICAL
MODELS WITH APPLICATIONS**

Credits: 1

Grade Placement: 11

Semesters: 2

Prerequisite: Placement by ARD meeting/Applied Algebra I & Applied Geometry

Students continue to build on Algebra I and Geometry foundations as they expand their understanding through mathematical experiences involving money, data, probability, patterns, music, design, and science.

B0109 APPLIED ALGEBRA II

Credits: 1

Grade Placement: 12

Semesters: 2

Prerequisite: Placement by ARD meeting/Applied Algebra I, Applied Geometry, Applied Mathematical Models with Applications

Applied Algebra II continues the development of concepts and skills introduced in Applied Mathematical Models with Applications. Students will extend their knowledge of representations of linear and quadratic functions. Students solve problems from a wide variety of advanced applications using multi-representations, tools, and technology.

B02051 FUNCTIONAL BIOLOGY

Credits: 1

Grade Placement: 9 - 10

Semesters: 2

Prerequisite: Placement by ARD meeting

Functional Science is a course covering basic principles of Biology. Students study the structure, growth, and function of the life systems of organisms. Concepts included are ecology, genetics and adaptation, taxonomy, reproduction, and energy production and transfer.

B02141 FUNCTIONAL INTEGRATED PHYSICS AND CHEMISTRY

Credits: 1

Grade Placement: 9 - 10

Semesters: 2

Prerequisite: Placement by ARD meeting

Functional Integrated Physics and Chemistry is the study of physical and chemical interactions of matter. Concepts included are properties of matter, chemical solutions and changes, force and motion, waves, and energy transformations.

10161 FUNCTIONAL SOCIAL STUDIES

Credits: 1

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Placement by ARD meeting

Instructional Social Studies will enable the student to define their rights, privileges and responsibilities within the school and community. The concepts include voting, laws, consequences of unlawful behavior, honesty, rules and regulations. History studies will provide a survey of the history and development of our world's areas and cultures with social, cultural, economic and political developments of the United States of America. Map skills will be introduced and developed through the use of a variety of activities.

ESOL COURSES (ENGLISH FOR SPEAKERS OF OTHER LANGUAGES)

All students who enroll in NISD will complete a home language survey. If this survey indicates that a language other than English is primarily spoken in the home or is primarily spoken by the student, the student will be referred to the ESOL Teacher for a language proficiency evaluation. Tests will be administered and students who are found to be limited English proficient (LEP) may enroll in ESOL classes. ESOL classes focus on intensive development of listening, speaking, reading, and writing skills in English. For students who are classified as immigrant and LEP two credits of ESOL may count as English I and II credits required for high school graduation. For non-immigrant LEP students any credit earned in ESOL may be counted as elective credit to meet graduation requirements. All English language learners must complete English III or English IV, if needed both classes are offered in Sheltered English format.

0001, 0002, 0003 ENGLISH I/ENGLISH II FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

Credits: ½ per semester

Grade Placement: 9 - 12

Semesters: 2

Prerequisite: Recommendation: by LPAC

ESOL I/II counts as English I/II for graduation requirement for immigrant students only. This course develops an understanding of basic core vocabulary, expressions and American customs. Emphasis is placed on acquisitions of English through participation in numerous and various language and cultural experiences in addition to direct, formal teaching of skills and structure in English. Students will gain competence and proficiency in listening, speaking, reading and writing in English.

NEW THEA INFORMATION

If you are enrolling as a full-time or part-time student in a Texas public community or technical college or university, your reading, writing, and math skills must be assessed unless you are exempt. Some colleges/universities will not honor 10th grade TAKS scores. See the THEA website for exemption information: www.thea.nesinc.com

