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Northwest
INDEPENDENT SCHOOL DISTRICT

HIGH SCHOOL ACADEMIC PLANNING GUIDE

2027-2028



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Northwest High School
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Profile of a Graduate

As 21st century citizens, Northwest Independent School District (NISD) students must be prepared with high levels of academic strength including literacy, digital skills, critical thinking, problem solving, collaboration, and communication. The mission of NISD is to provide a premier education, preparing all students to be successful, productive citizens. Embedded in our vision is that our students will be **future ready**: ready for college, ready for the global workplace, and ready for personal success. To accomplish this goal, a student who graduates from NISD *will be*:

Ready for College

*To prepare to be **future ready**, a student who graduates from NISD will:*

- Engage in relevant literacy through proficiency in reading, writing, listening, and speaking.
- Employ proficient and responsible use of digital media to effectively communicate, synthesize, and create new knowledge.
- Problem solve and critically analyze with determination to take risks, learn from mistakes, and adapt to new thinking.
- Determine validity and relevance of information resources in the development of research skills.

Ready for the Global Workplace

*To prepare to be **future ready**, a student who graduates from NISD will:*

- Connect and correlate knowledge and skills continuously through real-world applications in reading, writing, mathematics, science, social studies, the arts, and enrichment experiences.
- Construct new ideas through original and innovative thinking.
- Exhibit vision for personal learning and forward thinking to prepare for the future.
- Understand and adapt responsibly to a changing global community.

Ready for Personal Success

*To prepare to be **future ready**, a student who graduates from NISD will:*

- Practice ethical behaviors exhibiting integrity, respect, and commitment within a well-balanced lifestyle.
- Show initiative and responsibility through positive actions to express self-motivation, self-discipline, and perseverance.
- Communicate and collaborate by exercising a willingness to help and connect with culturally diverse individuals and groups to make necessary compromises toward accomplishing a common goal.
- Prepare for the unknown by being empowered with tools to face challenges and life-long learning.



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General Information

Some courses listed in this guide may not 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

As students prepare for college and careers, NISD encourages them to participate in challenging academic courses, such as Honors, Advanced Placement (AP) or Dual Credit/Dual Enrollment. These course options provide students the opportunity to experience college-level curriculum and expectations prior to attending college. This section of the course guide will provide insight on these course types to help select the most appropriate courses while in high school. Additional information about the course types mentioned above may be found at www.nisdtx.org/ccmr.

1. **Honors Courses**
    a. Academic courses that help prepare students for the content, learning strategies, and skills needed to succeed in Advanced Placement, OnRamps, and dual credit courses.
2. **Advanced Placement (AP) Courses**
    a. Advanced Placement courses (AP) follow college-level curriculum in order to prepare students for participation and success on the AP Exam given at the end of each school year. By achieving a successful qualifying score on the AP Exam, a student may earn college credit from his/her respective college or university.
3. **Dual Credit (DC) Courses**
    a. While in high school, students may earn credit for both college and high school by participating in and successfully completing a dual credit course. Dual credit means that the grade the student earns in the course will count for both college credit and high school credit. Students must meet admission requirements and potential prerequisites for the college in order to participate in dual credit courses, as well as meet the standard on the TSIA-2. Each dual credit course in the guide will have specific TSIA-2 and prerequisite information as well as the corresponding high school credit equivalent. Students will have to also register for dual credit courses with the college after selecting the dual credit course for NISD.
4. **Dual Enrollment (DE) Courses**
    a. Similar to dual credit, by participating in a dual enrollment course, a student is working in college-level curriculum while in high school. However, dual enrollment means that there is a separate college course grade earned and a separate high school course grade earned. The University of Texas at Austin OnRamps courses and Tarleton State University courses are examples of dual enrollment programs. Each dual enrollment course in the guide will have the corresponding high school credit equivalent. Students will register for dual enrollment courses with UT Austin at the beginning of the school year after selecting the dual enrollment course for NISD. Students in Tarleton courses will be enrolled by NISD CCMR staff.

5. **Gifted and Talented (GT) Courses**
    a. Secondary students identified as gifted and talented are served through NISD Gifted and Talented Honors courses and Gifted and Talented Advanced Placement courses. Teachers of gifted and talented classes must have required training to serve students identified as GT.

Additional information about these course types, enrollment procedures, and useful college credit information regarding the Texas Core Curriculum may be found at www.nisdtx.org/ccmr.

Grade Point Average and Class Rank

Northwest ISD calculates both an unweighted grade point average (GPA) on a 4.0 scale and a weighted GPA on a 7.0 scale. The un-weighted GPA is considered the student's official GPA and is reported as such. The weighted GPA is only used in the determination of class rank. The college admissions process allows for students to indicate if the GPA and class ranking are weighted.

Grade Point Average (GPA) Calculation

The District shall include in the calculation of grade point average grades earned in all courses, including grades earned in middle school courses for high school credit. The grade point average calculation shall exclude grades earned in or by a course for which a pass/fail grade is assigned; credit by examination, with or without prior instruction; local credit courses; academic courses substituted for physical education; summer school courses taken for remediation; and distance learning in the form of traditional correspondence courses (i.e. courses taken through Texas Tech University or the University of Texas). The grade point average is calculated on an unweighted 4.0 scale with grades assigned points as follows:

- 90-100 = 4.0
- 80-89 = 3.0
- 70-79 = 2.0
- below 70 = 0

Class Rank Calculation

The District shall include in the calculation of class rank only grades earned for high school credit in the following subjects and for electives under these subject areas: English, mathematics, science, social studies, economics and languages other than English. Grades earned in these courses during middle school shall be included in class rank calculation.

The calculation of a student's grade point average (GPA) for class rank shall exclude grades earned in or by a course for which a pass/fail grade is assigned; credit by examination, with or without prior instruction; local credit courses; academic courses substituted for physical education; summer school courses taken for remediation; and distance learning in the form of traditional correspondence courses. See the next page for the Point System for Ranking.

Optional Course Exemption (EIC(R))

Beginning with students entering the ninth grade in the fall of 2024, juniors and seniors shall have the option to exclude grades earned in up to two elective courses from their GPA and class rank calculation in accordance with administrative regulations. A student may apply an exemption to a core course if the student elects to take the course in addition to any core courses required for graduation.

Point System for Ranking

Level 2 - Regular		Level 3 - Gifted and Talented/Honors		Level 4 - AP, Dual Credit, and OnRamps Courses	
Grade	Grade Points	Grade	Grade Points	Grade	Grade Points
100	5.0	100	6.0	100	7.0
99	4.9	99	5.9	99	6.9
98	4.8	98	5.8	98	6.8
97	4.7	97	5.7	97	6.7
96	4.6	96	5.6	96	6.6
95	4.5	95	5.5	95	6.5
94	4.4	94	5.4	94	6.4
93	4.3	93	5.3	93	6.3
92	4.2	92	5.2	92	6.2
91	4.1	91	5.1	91	6.1
90	4.0	90	5.0	90	6.0
89	3.9	89	4.9	89	5.9
88	3.8	88	4.8	88	5.8
87	3.7	87	4.7	87	5.7
86	3.6	86	4.6	86	5.6
85	3.5	85	4.5	85	5.5
84	3.4	84	4.4	84	5.4
83	3.3	83	4.3	83	5.3
82	3.2	82	4.2	82	5.2
81	3.1	81	4.1	81	5.1
80	3.0	80	4.0	80	5.0
79	2.9	79	3.9	79	4.9
78	2.8	78	3.8	78	4.8
77	2.7	77	3.7	77	4.7
76	2.6	76	3.6	76	4.6
75	2.5	75	3.5	75	4.5
74	2.4	74	3.4	74	4.4
73	2.3	73	3.3	73	4.3
72	2.2	72	3.2	72	4.2
71	2.1	71	3.1	71	4.1
70	2.0	70	3.0	70	4.0

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. Grade level placement and awarding of credit will be determined using district approved assessments. Arrangements for these exams are scheduled by the student after they are enrolled in a NISD school.

Transfer Students

Transferred Grades [See EIC(LOCAL)]

Some transcripts from outside of Texas reflect an alpha grade and not a numeric grade. When this occurs, the letter grade will be transcribed to a numeric grade as indicated below:

- A+ 100
- A 95
- A- 90
- B+ 89
- B 85
- B- 80
- C+ 79
- C 75
- C- 70
- F 60

A transfer student who received credit in a course at a non-Texas public school for a 60-69 or a letter grade of a “D” may be awarded the credit if the course is deemed transferable, and the letter grade will be transcribed and not a numeric grade. When this occurs, the student will receive a grade of a “P” [passing] for the course, and the “P” will not be included in the computation of GPA or rank.

When a student transfers grades for properly documented courses, the District shall assign weight to those grades based on the categories and grade weight system used by the District if the same courses are offered to the same class of students in the District. Northwest ISD does not offer International Baccalaureate (IB) courses; however, some students transfer these credits to Northwest ISD. International Baccalaureate (IB) may be considered for weighted grade points if a similar level of Advanced Placement (AP) is identified.

In order for the transferred course to be accepted as an advanced course for class ranking purposes, the course must be clearly identified as such on the transcript or confirmed as the equivalent of an advanced- level course by the sending school to the high school counselor.

Evaluation of grades/credits from foreign countries or non-accredited schools

For students from a foreign country or non-accredited school, validated credits earned at the previous school will apply toward graduation requirements; however, those grades will be transcribed as a “P” [passing] or “F” [failing] and shall not be included in the computation of rank.

Schedule Changes

Any student/parent initiated schedule change must be completed by the last day of the prior school year. The Principal or designee must approve all schedule changes that occur after the last day of school and only in the case of improper academic placement in a course.

Schedule Change Guidelines

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.
- Student is 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.
- Student has an incomplete schedule.
- Student is 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 or correspondence course.

Request for AP Courses

Students wanting to take more than three full year AP courses in a school year must have prior approval from the Principal or designee.

Request to Exit Honors/AP/Dual Credit/Dual Enrollment Courses

Students may submit a request for a level change during the following times:

- August 7th through 4:00 PM on Friday, August 13th
- The exit window will open again for the three weeks between IPR 1 and IPR 2.
- The last five days of the first semester through the first five days of the spring semester for full-year classes

Exit Guidelines for Dual Credit and Dual Enrollment Courses

1. Dual credit and dual enrollment withdrawal dates vary by institution. It is important that you pay close attention to your institution's guidelines for your withdrawal decisions. In some cases you may be issued a WD (withdraw), WP (withdraw passing), WF (withdraw failing), or other coding that will affect your college transcript. High School counselor (or designee) approval required.
2. Students who withdraw from a dual credit or dual enrollment class or dual enrollment class for which there is an Honors or AP equivalent will be given the option of moving into those classes or into an on-level class. The withdrawal grade earned in the exited class will be substituted for assignments missed.
3. Students who wish to withdraw from a dual credit or dual enrollment class for which there is no non-dual credit equivalent will be placed in another course for which they may or may not receive high school credit towards graduation.
4. Dual credit and dual enrollment courses may require tuition payment, fees, and textbook costs. Failure to pay your tuition prior to the school or college deadline will result in the student being automatically removed from the class.

Exit Guidelines for Honors and AP Courses

1. A student may submit a request for a level change during the following times:
    a. August 7th through 4:00 PM on Friday, August 13th.
    b. The exit window will open again for the three weeks between IPR 1 and IPR 2.
    c. The last five days of the first semester through the first five days of the spring semester for full-year classes.
2. To exit an Honors course, parent contact must occur and the student must confer with the counselor and principal or principal's designee.
3. A student that exits out of an Honors course will retain this grade in the new course. If a student exits with a grade below 70 in the original course, this may impact their UIL eligibility.
4. Exiting an Honors course prior to the end of a semester will result in loss of weighted credit for high school courses.

In order to exit an advanced course, the following must occur:

- Attend documented tutorials and have all assignments completed.
- Parent/teacher/student conference.
- Parent-student conference with campus administration/counselor.
- Complete the campus request form and submit it by the designated due date/time.

Requests that meet the established guidelines stated above can only be approved if there is a class available and the change does not exceed the class size limit designated by administration.

State Assessment

The STAAR, State of Texas Assessment of Academic Readiness assessment, evaluates student learning based on the state-required curriculum—the Texas Essential Knowledge and Skills (TEKS). Students are required to earn a passing score on the following STAAR tests: English I, English II, Algebra I, Biology, and US History. The English II exam has been phased out with the 2027-28 school year. Students graduating before August 31, 2027 must still meet the English II EOC graduation requirement.

Award of Credit

A student must have a cumulative passing grade to receive credit for the course.

High School Classification

All high school students are classified as members of a particular class as of the first day of each school year; however, students who have not been promoted to a higher grade due to lack of credits may be eligible for reclassification at the end of the first semester. In order to be considered for reclassification at the end of the first semester, the student must have administrator approval and an approved graduation plan. This policy does not apply to UIL eligibility. Students will be promoted based on total credits; however, only state credits will apply toward graduation.

To be promoted:

- From grade 9, a student shall have acquired 6 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) is available for students in grades 9-12 who have lost credit in courses approved by the board of trustees (Board Policy EHDB LEGAL/LOCAL).

1. Students must have had prior formal instruction to be eligible for CBE.
2. Examinations that are used for credit by examination purposes must be approved by the Assistant Superintendent for Curriculum & Instruction or their designee.
3. For a student to receive credit by examination with prior instruction, the student must correctly answer 70% of the items on the test instrument.
4. The cost for this testing is the student's responsibility.
5. CBE shall not be used to gain eligibility for participation in extracurricular activities. A campus principal, counselor, and/or attendance review committee may offer a student with excessive absences an opportunity to earn credit for a course by passing a CBE. In these instances, the passing standard of 70% (see #3) shall apply.
6. High school students should contact their counselor for additional information.
7. Pre-registration and parental approval is required.
8. A student may not attempt to earn credit by examination for a specific high school course more than two times. If a student fails to earn credit by examination for a specific high school course before the beginning of the school year in which the student would ordinarily be required to enroll in that course in accordance with the District's prescribed course sequence, the student must satisfactorily complete the course to receive credit for the course.
9. Grades earned through CBE are not included in the GPA and ranking. (Board Policy EIC LEGAL/LOCAL)

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 (Board Policy EHDC LEGAL/LOCAL). There are four available testing windows each year.

1. For a student to receive credit by examination without prior instruction, the student must correctly answer 80% of the items on the test instrument.
2. The student (or parent) must register with the campus counselor no later than 15 days prior to the scheduled testing date.
3. Examinations that are used for credit by examination purposes must be approved by the Assistant Superintendent for Curriculum & Instruction or their designee.
4. Grades earned through CBE are not included in the GPA and ranking. (Board Policy EIC LEGAL/ LOCAL)
5. The District shall administer Credit by Exams without Prior Instruction a minimum of four times a year.
6. A student may take Credit by Exams for Acceleration earning a maximum of 1.0 credit in each core area of English, Math, Science and Social Studies. This excludes AVANT/CBE testing in World Languages.
7. A student may take a specific examination only once during each time.
8. A student may not attempt to earn credit by examination for a specific high school course more than two times.
9. If a student fails to earn credit by examination for a specific high school course before the beginning of the school year in which the student would ordinarily be required to enroll in that

course in accordance with the District's prescribed course sequence, the student must satisfactorily complete the course to receive credit for the course.

10. See the district website for Acceleration by Examination information.

Correspondence Courses

Credit toward state graduation requirements may be achieved by approved correspondence courses under the following conditions and with the prior approval of the counselor or principal only:

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 Commissioner of Education.
2. The correspondence course includes the state-required essential knowledge and skills for such a course.
3. Seniors enrolled in a correspondence course must complete the course and submit a grade to the school by the end of the first semester of the year they plan to graduate.
4. Correspondence course grades are not included in the GPA and ranking.

Online Learning Opportunities

Online learning opportunities are offered at our high school campuses to provide an online setting for students to complete some original credit coursework as well as make up lost credit. Online courses can be taken during the school day in the Grad Lab or outside of the school day. Students must complete all required online and offline assignments with a grade average of 70 or better in a specified time frame to receive credit. There is a fee for online courses taken during the summer session. Online learning courses do not meet NCAA standards and may not be appropriate for all learners. Please see your counselor for more information.

Original Coursework

It is recommended that students who are taking a course for the first time, take the course in a face-to-face or blended classroom setting. However, for some students who have transferred into our district, or have other extenuating circumstances, taking an online course for initial credit may be the best option for the student. Coursework completed for original credit will be assigned a numerical grade and will count in the student's overall grade point average (GPA) and appear on the student's transcript. Not all NISD courses are offered for original credit in an online environment. Please see your counselor for the most current list of offerings.

Credit Recovery Coursework

Students who have not successfully earned credit in the traditional classroom setting are given an opportunity to recoup credits through online classes if they are available for the course which covers the content originally delivered in a face-to- face class. Coursework that is completed successfully for credit recovery will receive a grade of P for passing. The P will not be calculated in the GPA, but will appear on the transcript.

Academic Coaching Program (ACP)

The Academic Coaching Program (ACP) supports students who previously failed a core class and/or are in need of making up lost credit or are taking original credit courses during the school day. Placements are based on student needs, course availability, and seat availability. Fifth year seniors and upperclassmen are high priority and will be placed first.

Texas Virtual School Network (TXVSN)

Students attending Northwest ISD have the option to enroll in online course(s) offered through TXVSN (txvsn.org/home/) provided by the Texas Education Agency per Texas Education Code, Chapter 30A. See the website for courses offered and talk to your counselor for further details regarding the impact on NCAA eligibility, the enrollment process, and course costs.

UIL Eligibility

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

- Grade 9 and below: Students must have been promoted from the previous grade.
- Grade 10: Five accumulated credits that count toward state graduation requirements.
- 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.
- 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.

UIL Eligibility - “No Pass, No Play” Guidelines

Students in advanced courses, defined by the District such as Honors, AP, GT, and dual credit courses, shall be required to maintain a passing standard of 60 or higher in order to maintain UIL eligibility. Students who fall below this passing standard shall lose UIL eligibility in accordance with UIL regulations and for the period of time identical to students who lose eligibility in non-advanced courses.

Early Graduation Requirements

Students may complete graduation requirements at any time. Arrangements should be made with the principal and the counselor prior to the start of the student’s final semester. A completed early graduation agreement form and a conference between the parents, principal or designee, and the student shall be required before approval is granted.

Compliance Statement

Northwest ISD does not discriminate on the basis of race, religion, color, national origin, sex, or handicap in providing educational services, activities, and programs, including vocational programs in accordance with the 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 ISD 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.

Northwest ISD 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

Subject Area	Foundation with Endorsement	Distinguished Level of Achievement
English Language Arts	Four credits: - English I - English II - English III - Advanced English credit	Four credits: - English I - English II - English III - Advanced English credit
Mathematics	Four credits: - Algebra I - Geometry - Advanced math credit - Advanced math credit	Four credits: - Algebra I - Geometry - Algebra II - Advanced math credit
Science	Four credits: - Biology - IPC, Chemistry, or Physics - Advanced science credit - Advanced science credit	Four credits: - Biology - IPC, Chemistry, or Physics - Advanced science credit - Advanced science credit
Social Studies	Three credits: - World Geography or World History - US History - US Government (0.5 credit) - Economics (0.5 credit) **Personal Financial Literacy (0.5 credit) will replace Economics beginning with students entering ninth grade in the 2026–2027 school year and later*	Three credits: - World Geography or World History - US History - US Government (0.5 credit) - Economics (0.5 credit) **Personal Financial Literacy (0.5 credit) will replace Economics beginning with students entering ninth grade in the 2026–2027 school year and later*
Physical Education	One credit	One credit
Languages Other Than English	Two credits in the same language	Two credits in the same language
Fine Arts	One credit	One credit
Speech	0.5 credit	0.5 credit
Elective	6.5 credits	6.5 credits
Endorsement	**At least one of the following endorsements is required. See next page for the detailed NISD Endorsement Guide.**	
Arts and Humanities Endorsement	Includes courses directly related to World Language, English Literature, History, and Fine Arts	
Business and Industry Endorsement	Includes credits directly related to Agriculture, Food, and Natural Resources, Architecture and Construction, Arts, Audio Visual, Business and Management, Hospitality and Tourism, Information Technology, and Marketing	
Public Services Endorsement	Includes credits directly related to Education and Training, Human Services, and Health Sciences	
STEM Endorsement	Includes credits directly related to Science, Technology, Computer Science, Engineering, and Advanced Math	
Multidisciplinary Endorsement	Allows a student to select credits from the curriculum of each endorsement area and earn credits in a variety of advanced courses from multiple content areas sufficient to complete the distinguished level of achievement.	
Total Credits	26 credits	26 credits

NISD Endorsement Guide

Updated October 20, 2026

Arts and Humanities

The Arts and Humanities endorsement can be earned by completing one of the following five options

Option 1:
Complete five credits from the following list:

- World Geography
- World History
- US History
- Government (.5)
- Economics (.5)
- AP European History
- AP Human Geography
- Psychology (.5)
- Sociology (.5)
- AP Psychology (.5) / Social Studies
- Advanced Studies (.5)
- Personal Financial Literacy (.5)
- Personal Financial Literacy and Economics (.5)

Option 2:
Complete a coherent sequence of four credits from one or two disciplines in the Fine Arts department:

- Art
- Theatre Arts
- Music - Band, Choir, Orchestra
- Dance

Option 3:
Complete four credits in the same language other than English:

- Spanish
- French
- German
- American Sign Language*

Option 4:
Complete two credits from one language other than English and two credits from a different language other than English to total four credits from the following list:

- Spanish
- French
- German
- American Sign Language*
- Computer Science*

If a student is transferring from a different district, other languages will be considered.

*May not be accepted at every college as fulfilling a world language requirement

Option 5:
Four English credits by selecting from the following:

- AP English III (Language & Composition)
- English IV or AP English IV (Literature & Composition)
- Communication Applications (.5)
- Creative Writing
- Literary Genres
- Independent Study in English

Business and Industry

Option 1: Students may earn a Business and Industry endorsement by completing courses required to be designated a CTE completer in one of the following programs of study related to Business and Industry:

- Animal Science
- Applied Agricultural Engineering
- Architectural Design
- Aviation Drone (Aviation Academy)
- Aviation Maintenance (Aviation Academy)
- Aviation Pilots (Aviation Academy)
- Business Management
- Business Management and Entrepreneurship Academy
- Construction Academy
- Cosmetology Academy
- Culinary Arts and Hospitality Academy
- Design & Multimedia Arts (also CMP Academy)
- Digital Communications (also CMP Academy)
- Plant Science
- Transportation, Automation and Logistics Academy (TALA)

If the mathematics and science requirements for the STEM endorsement are not met:

- Advanced Manufacturing
- Engineering (STEM Academy only)
- Networking Systems - discontinued - 12th grade only)
- Program Software and Development

Option 2: Four English credits by selecting courses to include Debate I,II, and III.

Multidisciplinary

The Multidisciplinary endorsement can be earned by completing one of the following three options:

Option 1:
Complete four credits from each of the following departments:

- English
- Math
- Science
- Social Studies

*Must include English IV, and Physics and/or Chemistry

Option 2:
Complete four credits in advanced placement or dual credit from the following departments:

- English
- Mathematics
- Science
- Social Studies
- Languages other than English
- Fine Arts

Option 3:
Complete four advanced courses (CTE Level 3 or 4) from within one endorsement or among multiple endorsements.

Public Service

Students may earn a Public Services endorsement by completing courses required to be designated a CTE completer in one of the following programs of study related to public services:

Option 1:

- Health Science (Diagnostic and Therapeutic Services)
- Early Learning
- Family and Community Services
- Teaching and Training

If the mathematics and science requirements for the STEM endorsement are not met:

- Biomedical Sciences Academy

Option 2: Complete four courses in Junior Reserve Officer Training Corps (JROTC).

Science, Technology, Engineering and Mathematics

Students may earn a STEM endorsement by completing Algebra II, Chemistry, and Physics and one of the options below:

Option 1:
Complete courses required to be designated a CTE completer in one of the following approved programs of study related to STEM:

- Advanced Manufacturing
- Biomedical Sciences Academy
- Engineering (STEM Academy only)
- Networking Systems - discontinued - 12th grade only
- Programming and Software Development

Option 2:
Complete two credits from the following list:

- Advanced Quantitative Reasoning
- PreCalculus, AP PreCalculus, OnRamps PreCalculus
- OnRamps Statistics
- AP Calculus AB
- AP Calculus BC
- Multivariable Calculus
- AP Statistics
- Dual credit math (beyond high school Algebra II)

Option 3:
Complete two courses from the following list:

- AP Biology
- AP Physics I
- AP Physics C: Mechanics
- AP Physics C: Electricity and Magnetism
- AP Chemistry
- Environmental Systems
- AP Environmental Science
- Anatomy and Physiology*
- Astronomy
- Advanced Animal Science*
- Forensic Science*
- Engineering Design and Problem Solving*
- Scientific Research and Design*
- Dual credit science (beyond high school Chemistry and Physics)

*Advanced level CTE course

Option 4:
In addition to Chemistry, Physics and Algebra II, one additional mathematics course for which Algebra II is a prerequisite and one additional science course from the lists above.

Additional Texas Graduation Requirements

☐ STAAR exams - See State Assessment

- ☐ English I
- ☐ English II*
- ☐ Biology
- ☐ Algebra I
- ☐ U.S. History

*The English II exam has been phased out with the 2027-28 school year. Students graduating before August 31, 2027 must still meet the English II End-of-Course (EOC) graduation requirement.

☐ CPR instruction

This instruction can occur between grades 7-12. In NISD, this instruction is completed in an 8th grade course. Transfer students will be given the opportunity to complete CPR instruction by their senior year.

☐ Proper Interaction with Peach Officers

This requirement is completed in the U.S. Government course during a student's senior year.

☐ Free Application for Federal Student Aid (FAFSA) /Texas Application for State Financial Aid (TASFA)

Seniors must complete one of three options to graduate:

- ☐ Complete and submit the FAFSA
- ☐ Complete and submit the TASFA (for eligible non-citizens or Texas residents who do not file FAFSA)
- ☐ Submit a signed opt-out form - This form may be submitted by a parent, a student aged 18 or older, or a school counselor for good cause.

☐ My Texas Future Direct Admissions

Seniors must complete one of two options to graduate:

- ☐ Provide documentation that the senior has established a profile on the My Texas Future website and elects to participate in the direct admissions program
- ☐ Submit a signed opt-out form - This form may be submitted by a parent, a student aged 18 or older, or a school counselor for good cause.

Performance Acknowledgements

Performance acknowledgments require high performance beyond that expected of students in high school. Performance acknowledgments will be noted on the transcript. A Performance acknowledgment can be earned by completing one of the following:

Outstanding Performance in Dual Credit

1. Completion of at least 12 hours of college academic courses, including those taken for dual credit as part of the Texas core curriculum, and advanced technical credit courses, including locally articulated courses, with a grade of the equivalent of 3.0 or higher on a scale of 4.0.
2. Earning an associate degree while in high school.

Outstanding Performance in Bilingualism and Biliteracy

1. By demonstrating proficiency in two or more languages by:
    a. Completing all language arts requirements and maintaining a minimum GPA of the equivalent of 80% and by satisfying one of the following:
        i. Completion of 3 credits in the same language other than English with a minimum GPA of the equivalent of 80%; or
        ii. Proficiency in the Texas Essential Knowledge and Skills for Level IV or higher in a language other than English with a minimum GPA of the equivalent of 80%; or
        iii. Completion of at least three credits in foundation subject area courses in a language other than English with a minimum GPA of the equivalent of 80%; or
        iv. Demonstrated proficiency in one or more languages other than English through one of the following methods:
            1. A score of 3 or higher on a College Board advanced placement examination for a language other than English; or
            2. A score of 4 or higher on an International Baccalaureate (Transfer Students only) examination for a higher-level language other than English course; or
            3. Performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent.
2. In addition to meeting the requirements of paragraph (1), to earn a performance acknowledgment in bilingualism and biliteracy, an English Language Learner (ELL) must also have:
    a. Participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; and
    b. Scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS).

Outstanding Performance on a College Board Advanced Placement test or International Baccalaureate examination

1. A score of 3, 4 or 5 on a College Board advanced placement examination; or

2. A score of 4 or above on an International Baccalaureate examination (Transfer Students only) for a higher-level course.

Outstanding Performance on the PSAT, the ACT Aspire, the SAT or the ACT by:

1. Earning a score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT®) or PSAT 10 that qualifies the student for recognition as a commended scholar or higher by the National Merit Scholarship Corporation or as an awardee of the National Recognition Programs of the College Board;
2. Earning a composite score of at least 442 on the ACT Aspire™ examination;
3. Earning a composite score of 29 on the ACT PreACT® examination;
4. Earning a total score of at least 101 on the Classic Learning Test® (CLT) 10;
5. Earning a total score of at least 1340 on the SAT®;
6. Earning a composite score of at least 29 on the ACT® examination (excluding the writing subscore); or
7. Earning a total score of at least 96 on the CLT.

Nationally/Internationally Recognized Business or Industry Certification or License

1. A student may earn a performance acknowledgment with:
    a. performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification; or
    b. performance on an examination sufficient to obtain a government-required credential to practice a profession.
2. Nationally or internationally recognized business or industry certification shall be defined as an industry-validated credential that complies with knowledge and skills standards promulgated by a nationally or internationally recognized business, industry, professional, or government entity representing a particular profession or occupation that is issued by or endorsed by:
    a. a national or international business, industry, or professional organization;
    b. a state agency or other government entity; or
    c. a state-based industry association.
3. Certifications or licensures for performance acknowledgements shall:
    a. be age appropriate for high school students;
    b. represent a student's substantial course of study and/or end-of-program knowledge and skills;
    c. include an industry-recognized examination or series of examinations, an industry-validated skill test, or demonstrated proficiency through documented, supervised field experience; and
    d. Represent substantial knowledge and multiple skills needed for successful entry into a high-skill occupation.

National Merit Scholarship Program

To participate in the National Merit Scholarship Program of the National Merit Scholarship Corporation (NMSC), a student must:

1. take the PSAT/NMSQT as a high school junior.
2. be enrolled as a high school student (traditional or home-schooled), progressing normally toward graduation or completion of high school, and planning to enroll full time in college no later than the fall following completion of high school; and
3. be a citizen of the United States; or be a US lawful permanent resident (or have applied for permanent residence, the application for which has not been denied) and intend to become a US citizen at the earliest opportunity allowed by law.

Program Recognition

Of the 1.6 million entrants, some 50,000 with the highest PSAT/NMSQT Selection Index scores (calculated by doubling the sum of the Reading, Writing and Language, and Math Test scores) qualify for recognition in the National Merit Scholarship Program. In September, these high scorers are notified through their schools that they have qualified as either a Commended Student or Semifinalist.

Commended Students

In late September, more than two-thirds (about 34,000) of the approximately 50,000 high scorers on the PSAT/NMSQT will receive Letters of Commendation in recognition of their outstanding academic promise. Commended Students are named on the basis of a nationally applied Selection Index score that may vary from year to year and is typically below the level required for participants to be named Semifinalists. Although Commended Students do not continue in the competition for National Merit Scholarships, some of these students do become candidates for Special Scholarships sponsored by corporations and businesses.

Semifinalists

In early September, about 16,000 students, or approximately one-third of the 50,000 high scorers, are notified that they have qualified as Semifinalists. They are the highest scoring entrants in each state. NMSC provides scholarship application materials to Semifinalists through their high schools. To be considered for a National Merit Scholarship, Semifinalists must advance to Finalist standing in the competition by meeting high academic standards and all other requirements explained in the information provided to each Semifinalist.

Finalists

In February, some 15,000 Semifinalists are notified by mail at their home addresses that they have advanced to Finalist standing. High school principals are notified and provided with a certificate to present to each Finalist.

Winner Selection

All winners of Merit Scholarship awards (Merit Scholar designees) are chosen from the Finalist group based on their abilities, skills, and accomplishments—without regard to gender, race, ethnic origin, or religious preference. A variety of information is available for NMSC selectors to evaluate: the Finalist's academic record, information about the school's curricula and grading system, two sets of test scores, the high school official's written recommendation, information about the student's activities and leadership, and the Finalist's own essay.

Types of Merit Scholarship Awards

Beginning in March and continuing to mid-June, NMSC notifies approximately 7,500 Finalists at their home addresses that they have been selected to receive a Merit Scholarship award. Merit Scholarship awards are of three types:

1. **National Merit $2,500 Scholarships**
    a. Every Finalist competes for these single payment scholarships, which are awarded on a state- representational basis. Winners are selected without consideration of family financial circumstances, college choice, or major and career plans.
2. **Corporate-sponsored Merit Scholarship awards**
    a. Corporate sponsors designate their awards for children of their employees or members, for residents of a community where a company has operations, or for Finalists with career plans the sponsor wishes to encourage. These scholarships may either be renewable for four years of undergraduate study or one-time awards.
3. **College-sponsored Merit Scholarship awards**
    a. Officials of each sponsor college select winners of their awards from Finalists who have been accepted for admission and have informed NMSC by the published deadlines that the sponsor college or university is their first choice. These awards are renewable for up to four years of undergraduate study.

Special Scholarships

Every year some 1,200 National Merit Program participants, who are outstanding but not Finalists, are awarded Special Scholarships provided by corporations and business organizations. To be considered for a Special Scholarship, students must meet the sponsor's criteria and the entry requirements of the National Merit Scholarship Program. They also must submit an entry form to the sponsor organization. Subsequently, NMSC contacts a pool of high-scoring candidates through their respective high schools.

Performance Recognitions

AP Capstone

AP Capstone is a diploma program from College Board based on two year long AP courses: AP Seminar and AP Research.

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificate.

Find more information on the College Board website.

AP Scholar Awards

The AP Scholar Awards recognize high school students who have demonstrated exemplary college-level achievement on AP Exams. The awards are reflected on all score reports sent to colleges after awards are conferred.

Find more information on the College Board website.

Award	Criteria
AP Scholar	Granted to students who receive scores of 3 or higher on three or more AP Exams
AP Scholar with Honor	Granted to students who receive an average score of at least 3.25 on all AP Exams taken, and scores of 3 or higher on four or more of these exams
AP Scholar with Distinction	Granted to students who receive an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams

Texas Automatic College Admission Criteria

In accordance with Texas Education Code (TEC), $51.803, students may qualify for automatic admission to many public universities in Texas through the Top 10% Rule. To meet the requirements, students must graduate in the top 10% of your class and be a Texas resident or eligible to pay resident tuition. This rule has been modified for The University of Texas at Austin. Please see the UT Austin Admissions website for the most recent admissions information.

Students will also have to ensure that all required documents are received by the institution to which they intend to apply by the application deadline and be sure to enroll in college no more than two years after graduating from high school. In addition, students must:

- Successfully complete the **Recommended or Distinguished High School Programs**, or the **Distinguished Level of Achievement under the Foundation High School Program**

or

- Earn an ACT English and Reading combined score of 40 and a Math score of 22, or Score at least a 530 on SAT Mathematics and a 480 on SAT Evidenced-Based Reading and Writing.

Be sure to check with the school's admissions office and go to **The Tests You'll Need** for more information about test requirements.

Students who are admitted to college through the Top 10% Rule, may still be required to provide SAT or ACT scores, but these scores are not used for admissions purposes.

The Texas First Program

The Texas First Program is designed to keep Texas' best and brightest on a direct track to a postsecondary pathway here in our great state. Texas' top students can accelerate their path to college and earn up to a year in scholarship dollars to attend select Texas institutions.

Eligible Institutions

Effective September 1, 2023, the number of institutions of higher education eligible to award the Texas First Scholarship to eligible Texas First Diploma graduates expanded from 10 universities to all Texas public institutions of higher education, including colleges, universities, and technical colleges (Senate Bill 2294, 88th Texas Legislature, Regular Session). Please see your high school counselor for information regarding eligibility requirements to graduate early under the Texas First Program and receive a scholarship up to one year upon admission to any eligible Texas public institution of higher education, per Texas Education Code, Section 61.003.

Program Details

Students who graduate early and earn a Texas First Diploma receive a scholarship at participating institutions.

Students who graduate two or more semesters before their class receive a two-semester scholarship, equivalent to the amount of the TEXAS grant, to a participating university. Students who graduate one semester early receive a one-semester scholarship to a participating university. Students may also be eligible for additional financial aid at most of these institutions.

The Texas First Diploma does not guarantee automatic admission for students. A student should consult their counselor for guidance on whether the student's grade point average at graduation qualifies the student for automatic admission under the state's top 10 percent law.

Students who graduate early with a Texas First Diploma may apply to any college or university they choose. However, the scholarship will only apply toward the participating universities listed above.

The scholarship offer will expire at the end of the first academic year following a student's graduation, so students are encouraged to attend college directly after high school.

Student Eligibility

Eligible students must demonstrate college readiness in academics and attitude. Eligibility requirements include the following:

- Texas residency
- FAFSA or TASFA completion
- At least 22 high school credits
- Final GPA equivalent to 3.0 or higher on a 4.0 scale
- Overall score in at least the 80th percentile on one or more of the following assessments: ACT, SAT, PSAT/NMSQT, TSIA/TSIA2, or GED; or, alternatively, a GPA in the top 10 percent of the student's class
- Completion of the STAAR EOC exams in English I or II*, Algebra I, and Biology, or completion of eligible substitute assessments.
- Demonstration of mastery in each subject area of English/Language Arts, Mathematics, Science, Social Studies, and a language other than English

Students should contact their counselor to learn more about this program and verify their eligibility.

View additional requirements on the Texas Higher Education Coordinating Board's website.

*The English II exam has been phased out with the 2027-28 school year. Students graduating before August 31, 2027 must still meet the English II EOC graduation requirement.



NISD Graduation Recognitions

Recognition	Criteria	Color	Estimated Cost
ECHS Cord	Unweighted GPA 3.75-4.0	Gold	$10
Academy Stole	4 Years Academy (Aviation, Biomedical Sciences, Business Management & Entrepreneurship, Construction, Cosmetology, Creative Media Production, Culinary Arts & Hospitality, STEM)	Academy Color	
ECHS Cord	Unweighted GPA 3.5-3.74	Silver	$10
ECHS Stole	39+ college hours		$25
AP Scholar Cord	Must receive scores of 3 or higher on three or more AP exams in grades 9-11	Purple/White	$10
AP Scholar with Distinction Cord	Must receive an average score of at least 3.5 on all AP exams taken AND scores of 3 or higher on five or more of these exams in grades 9-11	Dark Purple	$10
AP Scholar with Honors Cord	Must receive an A and AP Scholars with Distinction are on the list twice.	Purple/Gold	$10
State AP Scholar Stole	Granted to the one male and one female student in each U.S. state and the District of Columbia with scores of 3 or higher on the greatest number of Exams, AND THEN the highest average score (at least 3.5) on all AP Exams taken in grades 9-11	Gold	Campus Provided
National AP Scholar Stole	Granted to students who receive an average score of at least 4 on all AP Exams taken, and scores of 4 or higher on eight or more of these exams.	Purple	Campus Provided
Athletics Cord	Varsity or 4 years of play or 4 years participation with Special Olympics	Black	$10
Blood Donor Cord	Carter Blood Care will provide cord after donating twice during your senior year.	Red	$10
CTE Cord	2+ years of CTE	White	$10
Extra Curricular Cord	2+ years of extra-curricular	Orange	$10
Fine Arts Cord	Varsity or 4 years of participation	Blue	$10
Green Cord Service	100 hours of documented service hours in one year.	Green	$10
Military Cord	Entering a branch of the military	Red/White/Blue	$10
National Hispanic Honor Society Stole	See sponsor for details.	Red Stole	Campus Provided

National French Honor Society Cord	See sponsor for details.	Red/White/Blue	$10
National German Honor Society Cord	See sponsor for details.	Black/Gold/Red	$10
National Honor Society Cord	See sponsor for details.	White Collar	NHS
Perfect Attendance Cord	Approved list in senior year	Pink	$10
Student Council Cord	2+ years as a member, with 1 year being your senior year.	Silver	$10
Top 10 Ranked Students Cord	Top ten students, NOT ten percent	Gold	$10
National Art Honor Society Cord	See sponsor for details.	Multi-Colored	$10
AP Capstone Cord	Completion of AP Seminar and AP Capstone	Gold/White	$10
National Technical Honor Society Cord	See sponsor for details.	Purple/Silver	See campus NTHS sponsor for details
Joining Marines Stole	Marine Stole: received through Marines	Gold with Marine Logo	Provided by Marines
American Sign Language Honor Society Cord	Completed 2 years of ASL; Possesses an overall grade point average of 3.5/B+ in ASL; Possesses an overall grade point average of 3.2/B in all other subjects; Completion of at least 5 hours of community service that benefits the deaf community.	Old Gold/Burgundy	Students order from sponsor
Debate Cord	See sponsor for details.	Red and Gray	$10
Yearbook Cord	2 years in Yearbook and/or editor	Columbia Blue	$10
OnRamps Cord	Successful completion of at least one OnRamps course	Burnt Orange and White	Provided by UT
Microsoft Office Specialist Expert Cord	Holds Microsoft Office Specialist Expert certification	Lavender	$10
CTE Ambassadors Cord	Completed requirements of a CTE Ambassador	Blue/Yellow	None
International Thespian Society Cord	Earn at least 60 points in the International Thespian Society system - equivalent to 600 hours of work on productions.	Royal Blue/Gold	$15
International Thespian Society Stole	Earn at least 80 points in the International Thespian Society system - equivalent to 800 hours of work on productions	White	$30
Eagle TV Cord	2+ years as a member, with 1 year being your senior year.	Various colors	$10

CCMR Cords	Student meets the criteria to be considered CCMR in one of the CCMR areas CCMR Graduation Requirements - Northwest Independent School District		
Hillwood Student Influencer Cord	Completed requirements of an AllianceTexas Student Influencer; presented by Hillwood AllianceTexas.	Orange/Navy/Silver Cord	None
Destination Imagination Cord	Advances to high school state competition in Destination Imagination (DI)	Purple & Orange	Provided by department
NISD Biliteracy Honor Cord	Students that demonstrate proficiency in 2 or more languages by completing at least 3 credits of the same LOTE language and completing all language arts requirements with an 80% or higher GPA within these fields.	Gold, White and Red	Provided by department
PTA Honor Cord	Cord criteria document	Navy/White	Students order from sponsor



College, Career, and Military Readiness

The 21st Century workplace almost universally requires some form of preparation or certification in the form of education beyond high school. Whether this preparation includes earning a college degree, an industry-based certification, or some other form of career readiness credential, the NISD community is committed to providing the resources our students need to graduate prepared to navigate a changing and increasingly complex future. This preparation includes providing students with support to cultivate the knowledge, skills, and personal wellbeing needed to be successful beyond high school.

The College, Career, and Military Readiness section provides a convenient tracking tool that students can use to measure their progress toward graduating college and career ready along with some additional resources to assist them in making informed decisions about their future.

In addition to the tools on these pages, students are encouraged to access My Texas Future. My Texas Future provides an engaging and user-friendly platform where students can focus on:

- **Career Exploration** - Investigate various careers, learn about the skills and education or credentials needed to pursue that career, and learn about other opportunities connected to that area of interest.
- **Postsecondary Exploration** - Search for colleges, universities, and trade schools based on a variety of criteria unique to the interest of the individual student and explore each in depth.
- **Financial Resources** - Search a database of national and local scholarships.
- **Micro-credentials** - Deepen their learning in select areas and develop skills for workplace readiness and online etiquette.



College, Career & Military Readiness Tracker

Test Requirements for BOTH College & Career Readiness		
Must have "college-ready" scores for one test or a combination of tests.		
Minimum Scores to be considered college ready for the Texas Higher Education Coordinating Board (THECB):		
TSIA 2	**SAT**	**ACT**
ELAR - 945	Reading and Writing - 480	English and Reading Combined - 40
Essay - 5	Math - 530	Math - 22
Math - 950		No Composite
Note: Students who do not meet the "College Ready" score on TSIA 2 may qualify if their TSIA 2 diagnostic score is: Math - 6, ELAR - 5		

Additional College-Ready Requirements - Must complete one or more	
Dual Credit	3 credit hours in Math or English -or- 9 credit hours in anything
AP	Score a 3 or better on at least 1 AP Exam
OnRamps	Qualify for college credit in an OnRamps course
Associate's Degree	Graduate from high school with an Associate's degree

Additional Career-Ready Requirements - Must complete one or more	
Industry-Based Certifications	Earn at least one qualifying industry-based certification (IBC) within a TEA-approved Program of Study.
Technical Certifications	Earn a level I or II certificate
Special Education	Graduate with an advanced degree plan
	Graduate with an IEP and workforce readiness

Military-Ready Requirements - Must Complete BOTH	
Complete the ASVAB and earn a passing score	Score 31+
Enlist in the military and submit a copy of your DoD Form 4 contract to your high school counselor.	Complete this Google form after enlisting

Qualifying Industry-Based Certifications

Updated 10/30/2026

Advanced Manufacturing
- SACA C-101 Certified Industry 4.0 Associate - Basic Operations

Animal Science
- Certified Veterinary Assistant Level 1
- Elanco Fundamentals of Animal Science
- Elanco Vet Med Applications

Applied Agricultural Engineering
- American Welding Society -D9.1 and D1.1
- American Welding Society - Certified Welder

Architectural Design
- Autodesk Certified User Revit & AutoCAD

Aviation Academy
- FAA Part 107 Remote Drone Pilot

Biomedical Sciences Academy
- Biotechnician Assistant Credentialing Exam (BACE)

Business Management
- Entrepreneurship & Small Business (ESB)
- Microsoft 365 expert Certifications

Business Management & Entrepreneurship Academy
- Entrepreneurship & Small Business (ESB)

Construction Academy
- IBC pending

Cosmetology Academy
- Texas Department of Licensing and Regulation
- Cosmetology Operator
- Class A Barber

Creative Media Productions Academy
- Adobe Certified Professional

Culinary Arts & Hospitality Academy
- ServSafe Food Manager
- American Culinary Federation - Certified Fundamentals Cook

Design & Multimedia Arts
- Adobe Certified Professional

Digital Communications
- Adobe Certified Professional

Early Learning
- AAFCS - Pre-Professional Certification in Early Childhood Education
- Texas Education Agency
  - Educational Aide 1
- Council for Professional Recognition
  - Child Development Associate (CDA)

Health Science
- National Registry of Emergency Medical Technicians
  - Emergency Medical Technician Basic
- National Healthcareer Association
  - Certified EKG Technician
  - Certified Clinical Medical Assistant

Human Services
- Texas Department of State Health Services
  - Community Health Worker (CHW)

Plant Science
- BASF Plant Science Certification
- Texas State Florist's Association Floral Skills Knowledge Based
- Texas State Florist's Association Level I
- Texas State Florist's Association Level II

Programming & Software Development
- Certified Entry Level Python Programmer (PCEP)
- Certified Associate Python Programmer (PCAP)

STEM Academy
- Autodesk Certified User

Transportation, Automation, and Logistics Academy
- National Institute for Automotive Excellence
  - ASE Certifications

Teaching & Training
- Texas Education Agency
  - Educational Aide 1

College Preparation and Testing Information

TEXAS Grant

The state legislature established the TEXAS (Towards Excellence, Access and Success) Grant to ensure that well-prepared high school graduates with financial need could go to college. For more information, visit the College for All Texans website.

FAFSA

The Free Application for Federal Student Aid is available for students in their final year of high school. It is important for students to apply for financial aid early in their final year and each following year, as long as they are in post-secondary education or training. In HB3, the Texas Legislature determined that all seniors must submit a completed FAFSA or sign a waiver opting out as a graduation requirement.

There are many merit scholarships available to students through the completion of the FAFSA application on the Federal Student Aid website. FAFSA submission is available starting October 1.

Please remember that you should never have to pay to complete or submit your FAFSA.

TASFA

The Texas Application for State Financial Aid (TASFA) collects information to help determine eligibility for state (or institutional) financial aid programs administered by institutions of higher education in the state of Texas. Foreign or non-citizen students classified as Texas Residents who are not eligible to apply for federal financial aid using the Free Application for Federal Student Aid (FAFSA) are encouraged to complete the TASFA. Note: The federal application covers federal and state financial aid opportunities. If you meet the FAFSA filing requirements, then you should submit a completed FAFSA. You should not complete both the FAFSA and TASFA. Please visit the College for All Texans FAFSA/TASFA website for more information.

Please remember that you should never have to pay to complete or submit your TASFA.

The PSAT

The Preliminary Scholastic Aptitude Test (PSAT) provides NISD students an opportunity to take a practice test structured in the same format and content as the SAT. For juniors, the Preliminary SAT®/National Merit Scholarship Qualifying Test (PSAT/NMSQT®) may qualify them to enter the competitions for prestigious scholarships and participate in recognition programs that could generate additional scholarship opportunities. More information about the National Merit Scholarship Program is included in this guide. Students have the option of connecting their PSAT scores to Khan Academy for free online SAT prep that is customized to their needs. Visit KhanAcademy.org for more information.

Texas Success Initiative Assessment (TSIA-2)

Dual Credit TSIA-2 Eligibility
The TSIA-2 is an untimed assessment program designed to determine if a student is ready for college-level coursework in the general areas of reading, writing and mathematics. In addition, this program will also help determine what type of support may be needed to best meet the student's needs and to assist in becoming better prepared for college-level course work. The TSIA-2 is composed of two sections: TSIA-2 Mathematics and TSIA-2 English Language Arts & Reading.

College Readiness Testing Requirements

TSIA-2 Score Requirements and Exemptions
Prior to enrollment in dual credit courses, students must either pass the portion of the TSIA-2 that applies to the course they intend to take or meet the exemption for college readiness on SAT or ACT or any combination of the three.

Dual Enrollment students must pass the English and/or Mathematics portion of the TSIA by the end of their first English or math course or be exempt from TSIA by SAT and/or ACT scores to continue in dual credit or dual enrollment courses.

TSIA-2		
Section	**College-Ready Score Range**	**Description of TSIA-2 Section**
TSIA-2 Mathematics	950 – 990 Or 910-949 AND Diagnostic Level = 6	There are 20 questions on the Mathematics TSIA-2. If the diagnostic is required, there are an additional 48 diagnostic questions.
TSIA-2 English Language Arts & Reading	945 – 990 AND Essay Score 5-8 Or 910-944 AND Diagnostic Level 5-6 AND Essay Score 5-8	There are 30 questions and 1 essay on the ELAR TSIA-2. If the diagnostic is required, there are an additional 48 questions. If required, students must score a 3-6 on the diagnostic to take the test's essay portion.

TSIA-2 Exemptions For a period of 5 years from the date of testing, a student who tested and performed at or above the following standards is exempt:			
Test	**Score**	**Partial Score**	**Description**
ACT	**No Composite Score Requirement**	**40** – Combined score on English and Reading **22** - Mathematics	To use your ACT to exempt you from TSIA-2 ELAR, you must have a combined score of 40 or better on the English and reading portion of the ACT. To have an exemption for mathematics, you must have a score of 22.
SAT	**No combined score used**	**530** – SAT Math – Math TSIA-2 **480** – SAT Evidence-Based Reading and Writing – Reading and Writing TSIA-2	To use your SAT score to exempt you from the TSIA-2, for each subsection of the TSIA-2, you must have the required partial score in the same content area. It is possible to have an exemption on TSIA- 2 Reading and TSIA-2 Writing without having a 530 or higher on the SAT Math portion.

FAQ for TSIA-2

What is the Pre-Assessment Activity and why is it required before taking the TSIA-2?
This activity reiterates the importance of the TSIA-2 and provides information about the test and any score feedback you will receive.

When do I have to take the TSIA-2?
The assessment must be taken before you can enroll in any college-level course at any Texas public institution of higher education. Specifically, in NISD, you must take the TSIA-2 prior to enrolling in dual credit courses and before the end of your first OnRamps English or math course unless you meet the exemption qualifications on SAT or ACT.

How do I register and pay for the TSIA-2?
NISD is able to provide the TSIA-2 locally at no cost for the first attempt to NISD students. Find additional information on the registration and payment process at www.nisdtx.org/ccmr.

Are calculators allowed for the TSIA-2?
No calculators are allowed to be brought into the testing room. A calculator is provided within the testing program when appropriate.

Are accommodations allowed on the TSIA-2?
Yes, some accommodations may be allowable for TSIA-2 testing. Students who qualify should contact the campus TSIA-2 Administrator for more information.

The ACT

The ACT is a three-hour multiple-choice test measuring achievement in four areas: English, mathematics, reading, and science reasoning. The optional writing test 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. Students have access to free online practice tests for the ACT on the ACT website.

The SAT

The SAT (Reasoning Test) is a three-hour test of writing/critical language and mathematical abilities administered by the College Board. Students will receive a Total Score in the range of 400-1600 which is the sum of the Evidence-Based Reading and Writing section score (200-800) and the Math section score (200-800). Students have access to free online practice tests for the SAT on the College Board website and through Khan Academy.

Advanced Placement (AP) Exams

Each AP course provides students the opportunity to earn college credit while in high school by successfully achieving a qualifying score (3+) on the AP exam, which is administered at the end of the course. These AP courses and exams are based upon a national course outline equivalent to a college course. By achieving a qualifying score of 3 or higher, colleges may grant credit on the student's college transcript. Exam credit policies can vary from college to college and it is recommended to consult the prospective institution's policy on AP credit. Students who achieve a qualifying score (3+) are automatically qualified for credit from Texas public colleges and universities. The college or university will determine what type of credit is awarded, such as core or elective, and how many college credit hours are awarded.



Advanced Placement, Dual Credit, and OnRamps

	Dual Credit	Advanced Placement	Dual Enrollment
Definition	To meet “core” college requirements and electives by taking course from institutions partnered with NISD	To meet “core” college requirements and electives by achieving a qualifying score on an AP Exam	To meet “core” college requirements and electives by taking courses developed and vetted by the University of Texas and presented in a face-to-face format with online components.
Offerings	30+ courses (including CTE offerings)	32 AP courses	Eight OnRamps Courses and two Tarleton Courses
Transferability	Courses completed from the Texas Core Curriculum transfer to all public in-state colleges and universities. Many out-of-state public and private schools may take courses as transfers, but it is up to the institution.	Exams with qualifying scores are accepted by most institutions, public and private. *Be sure to search the AP Credit Policy for your prospective college or university.	Courses completed from the Texas Core Curriculum transfer to all public in-state colleges and universities. Many out-of-state public and private schools may take courses as transfers, but it is up to the institution.
How College Credit is Earned	Dual credit grade is a course grade earned at the end of each semester.	Credit earned by achieving a qualifying score on a single, national exam administered in May; Exams scored on a 1-5 scale, with 3 or higher being a “qualifying” score.” Course grade has nothing to do with the AP Exam score.	Students who qualify for college credit may choose whether to accept or decline the college credit after seeing their final course grade. Once their decision is made it cannot be changed. Decisions to accept or decline the credit are for college transcripts only. Grades earned in the high school portion of Dual Enrollment courses are applied to the student's high school transcript regardless of their credit decision with the university.
Limits on Enrollment/ Conflicts	Prerequisites for certain courses apply. Students must also either meet an exemption from the TSIA-2 or meet the “College- Ready” standard on the TSIA-2. Students must also meet timelines for enrollment established by partner institutions. The college may choose not to offer a course based on enrollment and instructor availability.	Advanced Placement is considered open enrollment. Students may register for and participate in AP courses each year provided that they have completed the course prerequisites.	Students enrolled in Dual Enrollment courses must meet entrance requirements which vary by course, in order to qualify for the college-level portion of the course. Students who do not qualify for the college course may remain in the class and earn their high school students enrolled in Dual Enrollment are responsible for the course fees regardless of their qualification for and/ or acceptance of college credit. All English and Math Dual Enrollment students are required to meet the college readiness requirements on TSIA, SAT, or ACT by the end of their first course in order to continue taking OnRamps or Dual Credit classes.

Caution:
A failing grade in an AP or dual enrollment course will impact your high school GPA, but failing a dual credit course will impact your college GPA which may have an effect on your overall college GPA regardless of what institution you choose to attend. Be sure to stay determined and focused while in a dual credit course!

Choosing the best option:
There are many factors to consider when choosing dual credit, AP, and dual enrollment courses. Each option may prepare you for in-state public colleges, but AP courses may be preferable for some private institutions. However, each institution determines what AP Exam score will count for specific classes; and not all AP Exam scores will apply to classes that are necessary for a student's degree plan. Regardless of the route or routes you choose, they will all require a willingness to work and the work will be challenging.

Dual Credit, Dual Enrollment, Advanced Placement, and the Texas Core Curriculum

The Texas Core is a 42 Semester Credit Hour (SCH) core curriculum for all undergraduate students in Texas. It is composed of classes in nine areas:

English 6 SCH	**Mathematics** 3 SCH	**American History** 6 SCH
Speech 3 SCH	**Science** 6 SCH	**Government** 6 SCH
Language, Culture, & Philosophy 3 SCH	**Creative Arts** 3 SCH	**Behavior** 3 SCH

*Courses that fulfill the requirements of each core component may differ by college and university.

Each time you take a course in Northwest ISD that fits a Core Element, you are potentially progressing toward your degree from any public institution of higher education in the state. The public institution of higher education in Texas is obligated to take your dual credit/dual enrollment credits that earned with NISD that are Texas Core courses.

Northwest ISD offers more than one way to earn your Texas Core credits. Many Dual Credit, Dual Enrollment, and Advanced Placement courses are part of the Texas Core. The classes in **BOLD** on page 41 are courses offered through NISD that can fulfill the Texas College Core Requirements.

When you are deciding which advanced classes to take it is a good idea to pay close attention to the Core areas and make any decisions regarding classes outside the Core based on the college you plan to attend, your degree requirements, and your interests. Courses you take outside the Core may or may not apply to your degree plan. In some cases, you can still use non-Core classes as elective, program, or credentialing credit, but this will vary by institution and degree plan.

Dual Credit Core Curriculum Course Guide

TSIA-2 Reading, Writing, and Mathematics or SAT, ACT exemption scores are required for dual credit and dual enrollment courses.

English (6 Hours) Choose Two Courses		
ENGL 1301 OnRamps Intro to Rhetoric	ENGL 1302 OnRamps Rhetoric and the American Identity	_____ 3 Hrs _____ 3 Hrs
Speech (3 Hours) Choose One Course		
SPCH 1311 SPCH 1321		_____ 3 Hrs
Mathematics (3 Hours) Choose One Course		
MATH 1314 MATH 1342 MATH 1332 MATH 2312 OnRamps College Algebra (full year) OnRamps Discovery PreCalculus (full year) OnRamps Statistics (full year)		_____ 3 Hrs
Science (8 Hours) Choose Two Courses		
BIOL 2401 CHEM 1411 PHYS 1401 PHYS 1403 OnRamps Physics I (full year)	BIOL 2402 CHEM 1412 PHYS 1402 PHYS 1404	_____ 4 Hrs _____ 4 Hrs
Creative Arts (3 Hours) Choose One Course		
ARTS 1301		_____ 3 Hrs
Language, Culture & Philosophy (3 Hours) Choose One Course		
ENGL 2322 ENGL 2328		_____ 3 Hrs
American History (6 Hours) Choose Two Courses		
OnRamps US History	OnRamps US History	_____ 3 Hrs _____ 3 Hrs
Government (6 Hours) Choose Two Courses		
GOVT 2305 (Both Government courses are required depending on transfer requirements. Check with College Advisory or High School Representative)	GOVT 2306 / OnRamps Government (Both Government courses are required depending on transfer requirements. Check with College Advisory or High School Representative)	_____ 3 Hrs _____ 3 Hrs
Behavior (3 Hours) Choose One Course		
PSYCH 2301 SOCI 1301 ECON 2301 OnRamps Microeconomics		_____ 3 Hrs

Other college courses may or may not count for High School credit.

Students who wish to graduate with their college core complete will need one additional KINE course that will not count for high school credit.

Students who wish to graduate with an associate's degree will need an additional 19 hours. Course requirements may vary by major and may not be eligible for high school credit.

Advanced Placement Exam Credit Conversion

Colleges across the world have different systems and requirements for converting AP Exam scores to college credit. Public colleges and universities in Texas are required to give credit for a score of 3 or better, but there are no specific requirements for how much credit or how that credit will apply to a student's degree plan.

To check the AP Credit Policy for your chosen college or university, we recommend that you visit the AP Credit Policy Search website.

AP Credit Search How-To Video (45 seconds): tinyurl.com/NISDCCMR-APHowTo

Advanced Placement Exams and Dual Credit

Students taking dual credit who plan to use AP exams to meet prerequisite requirements should be aware of the college score requirements for their exams. The table below highlights some common courses. Visit the TCC website for the complete list.



Advanced Placement Exam Credit Conversion

	Dual Credit	Advanced Placement	Dual Enrollment
English	**ENGL 1301** – Composition I (English III or IV) **ENGL 1302** – Composition II (English III or IV) **ENGL 2311** – Technical & Business Writing **ENGL 2322** – British Literature I (English IV-A/B) **ENGL 2328** - American Literature II (English IV-A/B)	**AP English Language** (English III) **AP English Literature** (English IV)	**RHE 306/ENGL 1301** – OnRamps (English III or IV) **RHE 309/ENGL 1302** – OnRamps (English III or IV)
Math	**MATH 1314** – College Algebra **MATH 1332** - Contemporary Mathematics **MATH 1342** – Elementary Statistics **MATH 2412** – Precalculus	**AP Calculus AB** **AP Calculus BC** **AP Statistics** **AP Precalculus**	**MATH 2312** – OnRamps Precalculus **MATH 1342** – OnRamps Statistics **MATH 1314** -OnRamps College Algebra
Science	**BIOL 2401** – Human Anatomy & Physiology I **BIOL 2402** – Human Anatomy & Physiology II **PHYS 1401** – College Physics I **PHYS 1402** – College Physics II **PHYS 1403** – Stars and Galaxies **PHYS 1404** – Solar System **CHEM 1411** – General Chemistry I **CHEM 1412** – General Chemistry II **BIOL 2406** – Environmental Biology [Note: Labs required for DC Sciences]	**AP Biology** **AP Chemistry** **AP Physics 1** **AP Physics C: Mechanics** **AP Physics C: Electricity & Magnetism** AP Environmental Science	**PHYS 1301** – OnRamps Physics
Social Studies	**GOVT 2305** – US Government **GOVT 2306** – Texas Government **ECON 2301** – Macroeconomics **PSYC 2301** – General Psychology **SOCI 1301** – Introduction to Sociology	AP Human Geography AP World History **AP US History** **AP Macroeconomics** **AP Microeconomics** **AP US Government & Politics** **AP Psychology** AP European History	**HIS 315K/HIST 1301** – gOnRamps US History **HIS 315L/HIST 1302** – OnRamps US History **ECO 304K/ECON 2302**- OnRamps Economics **GOV 312L/GOVT 2302**- OnRamps Government
Fine Arts	**ARTS 1301** – Art Appreciation	AP Art History **AP Music Theory** **AP Studio Art: 2-D Design** **AP Studio Art: 3-D Design** **AP Studio Art: Drawing**	None Available At This Time
Electives	**EDUC 1301** - Introduction to the Teaching Profession **EDUC 2301** - Introduction to Special Populations **SPCH 1311** – Intro to Speech Communication **SPCH 1321** – Professional Communication [Note: Some CTE courses may offer an option to earn college credit for an additional fee.]	AP Spanish Language AP Spanish Literature AP Research AP Seminar	Tarleton (Education and Training Program of Study Only) EDUC 1301 - Introduction to the Teaching Profession EDUC 2301 - Introduction to Special Populations

Courses in **BOLD** are part of the Texas Core Curriculum.

Steele Early College High School (ECHS)



James M. Steele Early College High School is an innovative approach for high school students to earn both a high school diploma and their college Associate's degree. Students can earn up to 60 college hours at no cost. At Steele ECHS, we work with students to focus on academics, industry certifications, internships/ experience, community service, leadership, and preparation for college. Steele is a small college campus experience focused on students working on a competitive advantage for their future.

Application Timeline

Wednesday, September 1, 2027	Steele ECHS enrollment request opens for Fall 2028 semester.
Friday, October 15, 2027	Round One of enrollment requests closes at 11:59 pm
Saturday, October 16, 2027	Round Two of enrollment requests begins
Friday, October 29, 2027	Round One students notified of placement decision
Sunday, November 14, 2027	Round Two of enrollment requests closes at 11:59 pm
Friday, December 17, 2027	Round Two students notified of placement decision

NOTICE: Students are encouraged to submit their ECHS applications as early in the process as possible as spots are not reserved for later rounds. If the ECHS fills every spot in an early round, the later rounds will continue in order to generate a waitlist. Students who are placed on the waitlist will be included in the weighted lottery.

Selection Process

Steele ECHS is able to accept a limited number of students each school year. In the event that there are more applicants than the campus can accommodate, enrollment selections will be made using a weighted-lottery system.

Texas Success Initiative Assessment (TSIA2)

All freshmen entering Steele ECHS are required to complete the TSIA ELAR before the start of their freshman year in order to take the required dual credit courses for the fall semester. Students who have not taken the TSIA by July 30, 2026 will lose their spot in the ECHS and their enrollment will be returned to their home campus.

Sample ECHS Student Schedule

Steele ECHS utilizes an innovative A-B Block schedule to support college dual credit coursework and academic learning. Students take four classes each day Monday through Thursday. Class periods 1, 3,

5, and 7 are Monday/Wednesday, while class periods 2, 4, 6, and 8 are Tuesday/Thursday. Students have all eight class periods on Friday. In addition, every day during the middle of the school day, we have Power Hour designed for clubs, organizations, tutorials, collaboration, lunch, and more.

The schedule below is a sample schedule that a typical ECHS student might have. Non-dual credit courses may differ based on each student's interests and graduation plan.

Sample 9th Grade Schedule:

1st Period	Honors English I
2nd Period	Dual credit college course, "Learning Frameworks"
3rd Period	Honors Biology
4th Period	Honors World Geography
5th Period	Honors Spanish I or II
6th Period	Elective course
7th Period	Math course (Honors Geometry, Honors Algebra I, or Honors Algebra II)
8th Period	Elective course

Steele ECHS "Student Life"

At Steele ECHS, we have two large student organizations, Student Council (StuCo) and National Honor Society (NHS), that coordinate and lead all our school activities and events. Our students are actively involved in Broadcasting (Steele TV), Yearbook, Student Leadership, Debate, Art, Theatre, and our Steele Rock Band - "Permanent Flux". Steele students compete in UIL Academics, UIL Debate, UIL One Act Play (OAP), eSports, and Certiport Microsoft Office Specialist. Steele students are Tarrant County College (TCC) students and have access to all events, programs, and extracurriculars through TCC.

Through our Business Information Management (BIM) program, students can earn numerous industry certifications and become a member of the National Technical Honor Society (NTHS). There are numerous opportunities for online high school and dual credit courses. Students are encouraged to volunteer in our community as part of the Green Cord program. We have a number of student-created/led clubs at Steele, such as the orchestra club, D&D club, dance club, sports clubs, and more.

A successful Early College High School program relies on our students progressing as a cohort through grades 9, 10, and most of grade 11. Because of this, NISD does not support summer dual credit enrollment for summer courses. Students who take a summer course will be responsible for any costs associated with the course including textbook fees.

Sample ECHS Student Schedule

	Grade 9	Grade 10	Grade 11	Grade 12
English	Honors English I	Honors English II	ENGL 1301 (F) ENGL 1302 (S)	ENGL 2322 (F)
Math	Honors Geometry	Honors Algebra II	MATH 1314 (F)	MATH 1332 (F)
Science	Honors Biology	Honors Chemistry	Physics or DC Science (F) DC Science (S)	DC Science (F) DC Science (S)
Social Studies	Honors World Geography	Honors World History	HIST 1301 (F) HIST 1302 (S)	GOVT 2305 (F) ECON 2301 (S) (Personal Financial Literacy if entered HS in 2026 or after)
World Language	Honors Spanish I	Honors Spanish II		
PE	HS PE KINE 1164 (S)	KINE 1304 (F)		
Fine Arts		DRAM 1310 (S)		
College Electives	SPCH 1311 (S)	GOVT 2306 (S)		
	EDUC 1300 (F)	SOCI 1301 (F)	MATH 2412 (S)	PSYC 2301 (S)
CTE & Other Electives	As needed to complete schedule			
College Credits Per Year	**7**	**12**	**19**	**23**
Total College Credits	**61**			

Core 42 Associate's Degree

Sample ECHS Student Schedule

TSI Reading, Writing, and Mathematics or PSAT, SAT, ACT exemption scores are required for TCC.

Communication (6 Hours) Choose Two Courses		
ENGL 1301	SPCH 1311 or SPCH 1315	_____ 3 Hrs _____ 3 Hrs
Mathematics (3 Hours) Choose One Course		
MATH 1314 or MATH 1342 or MATH 1332 or MATH 2412		_____ 3 Hrs
Life & Physical Sciences (6 Hours) Choose Two Courses		
BIOL 2401 or BIOL 1408 or CHEM 1411 or PHYS 1401 and PHYS 1403	BIOL 2402 or BIOL 1408 or CHEM 1412 or PHYS 1402 and PHYS 1404	_____ 3 Hrs _____ 3 Hrs [One hour from each science class goes to overflow hours in the Component Area.]
Creative Arts (3 Hours) Choose One Course		
ARTS 1301 or DRAM 1310		_____ 3 Hrs
Language, Culture & Philosophy (3 Hours) Choose One Course		
ENGL 2322 or ENGL 2328 [Note: ENGL 1302 is a prerequisite for ENGL 2322 and ENGL 2328] or SPAN 2311	SPAN 2312	_____ 3 Hrs
American History (6 Hours) Choose Two Courses		
HIST 1301	HIST 1302	_____ 3 Hrs _____ 3 Hrs
Government & Political Science (6 Hours) Choose Two Courses		
GOVT 2305 [Note: Both Government courses required depending on transfer requirements. Check with College Advisory or High School Representative]	GOVT 2306 [Note: Both Government courses required depending on transfer requirements. Check with College Advisory or High School Representative]	_____ 3 Hrs _____ 3 Hrs
Social & Behavioral Science (3 Hours) Choose One Course		
PSYCH 2301 or SOCI 1301 or ECON 2301		_____ 3 Hrs
Component Area Option (6 Hours) Choose One Composition and One Health & Wellness		
Composition	ENGL 1302 or ENGL 2311 [Note: Does not fulfill requirements to take ENGL 2322 or 2328]	_____ 3 Hrs
Health & Wellness	KINE 1164	_____ 1 Hr
Overflow	The two overflow (extra) semester-credit hours are met by completing the Life and Physical Sciences requirement.	_____ 1 Hr (From Science) _____ 1 Hr (From Science)
CORE COMPLETE		**42 Hours**

Science

DC Biology for Non-Science Majors I (BIOL 1408) for Specialized Topics in Science A

Course Numbers: SC.D902051 | 03060300
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; high school Biology and Physics, TSIA2 Math & ELAR

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. This course offering is a Texas Core Curriculum course and is only available to Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Biology for Non-Science Majors II (BIOL 1409) for Specialized Topics in Science B

Course Numbers: SC.D902052 | 03060300
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; high school Biology and Physics, BIOL 1408, TSIA2 Math & ELAR

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. This course offering is a Texas Core Curriculum course and is only available to Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

Social Studies

DC US History I (HIST 1301) for United States History A

Course Numbers: SS.D903011 | 03340100
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Math or TSIA-2 Mathematics and TSI met in Reading, Writing or TSIA-2 ELAR

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/ Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. This course offering is a Texas Core Curriculum course and is only available to Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr. HIST 1301 and 1302 must be taken face-to-face at Steele High School during the normal fall and spring semesters. High school credit will not be awarded for HIST 1301 or HIST 1302 taken online or outside the regular school day at Steele ECHS.

DC US History II (HIST 1302) for United States History B

Course Numbers:
SS.D903012 | 03340100
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Math or TSIA-2 Mathematics and TSI met in Reading, Writing or TSIA-2 ELAR

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in the United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of US foreign policy. This course offering is a Texas Core Curriculum course and is only available to Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr. HIST 1301 and 1302 must be taken face-to- face at Steele High School during the normal fall and spring semesters. High school credit will not be awarded for HIST 1301 or HIST 1302 taken online or outside the regular school day at Steele ECHS.

Fine Arts

DC Introduction to Theatre (DRAM 1310) for Theatre I A and B

Course Numbers:
FA.D90401 | 03250100
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: TSIA-2 ELAR and Mathematics

Survey of theater including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Participation in productions may be required. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course and is only available to Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

LOTE

DC Intermediate Spanish I (SPAN 2311) for Spanish III A and B

Course Numbers:
LO.D90620 | 03440300
Credits: 1
Grade Placement: See prerequisite
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Spanish II, TSIA-2 ELAR and Mathematics

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish- speaking world. Conversational practice based on selected readings and dialogues. Directed composition. Class conducted largely in Spanish. This course offering is a Texas Core Curriculum course and is only available to Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Intermediate Spanish II (SPAN 2312) for Spanish IV A and B

Course Numbers: LO.D90630 | 03440400
Credits: 1
Grade Placement: See prerequisite
Semesters: 1
Weighted GPA: Level 4
Prerequisite: DC Intermediate Spanish I (SPAN 2311)

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish- speaking world. This course offering is a Texas Core Curriculum course and is only available to Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

Physical Education

DC Introduction to Physical Fitness & Wellness (KINE 1164) for PE Substitution

Course Numbers: PE.D9805 | PES00008
Credits: .5
Grade Placement: 9
Semesters: 1
Prerequisite: Parent, counselor, principal, and college approval; TSIA-2 ELAR and Mathematics

This course will provide an overview of the lifestyle necessary for fitness and health. Students will participate in physical activities and assess their fitness status. Students will be introduced to proper nutrition, weight management, cardiovascular health, flexibility, and strength training. Includes: scientific information concerning values and preventive medical benefits of exercise, individual (personal) evaluations and experiments to determine present health fitness status, and the development of a personal exercise program based on student's needs. **This course is available to ECHS students only.**

Personal and Community Health (KINE 1304) for PE Substitution

Course Numbers: PE.D9905 | PES00009
Credits: .5
Grade Placement: 10
Semesters: 1
Prerequisite: Parent, counselor, principal, and college approval; TSIA-2 ELAR and Mathematics

This course provides an introduction to the fundamentals, concepts, strategies, applications, and contemporary trends related to understanding personal and/or community health issues. This course also focuses on empowering various populations with the ability to practice healthy living, promote healthy lifestyles, and enhance individual well-being. **This course is available to ECHS students only.**

Other Electives

DC Learning Frameworks (EDUC 1300) for Methodology of Academic and Personal Success (MAPS)

Course Numbers:
D0330 | N1130021
Credits: .5
Grade Placement: 9
Semesters: 1
Prerequisite: Parent, counselor, principal, and college approval; TSIA-2 Reading, Writing, and Mathematics

A study of research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of the college-level student academic strategies. Students use assessment instruments (e.g. learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. This course offering is a Texas Core Curriculum course and is offered face-to-face for Steele Early College High School students. This course is a college elective credit that does not fulfill the College Core Curriculum and is only available for dual credit through Steele Early College High School. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

Path College Career I

Course Numbers:
EL.0291 | N1290051
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

The Path College Career I course provides students with instructional support for advanced-level courses through the implementation of College and Career Readiness Standards and 21st century skills (critical thinking, collaboration, communication, and creativity). As an introductory college and career readiness course, Path I College Career develops study skills, research skills, application of critical thinking skills, personal/interpersonal skills, confidence in personal growth through self-reflection, and the habits necessary for continued success in high school, college, and the workforce. In this course, students are immersed in a rigorous learning environment to ensure that students are not only eligible but also ready for college and career opportunities.

Path College Career II

Course Numbers:
EL.0391 | N1290052
Credits: 1
Grade Placement: 10-12
Semesters: 2
Prerequisite: Path College Career I

Path College Career II provides students with instructional support in all college preparatory and dual enrollment courses through in-class coaching. The course emphasizes the development of habits and skills essential for success in both college and the workforce. Students will explore college and career opportunities that align with their personal interests and engage in ethical decision-making related to real-world and workplace issues. Additionally, students will prepare for college admission exams and scholarship opportunities. This elective ensures that students are not only college-eligible, but truly college ready.

CTE Business Courses

Foundations of Business Communication and Technologies

Course Numbers: 0839 | 13011400
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: None
Industry-Based Certifications: Microsoft Office Specialist Certifications - Word Associate, Excel Associate, and PowerPoint Associate

This course introduces students to information systems and business management to support decision-making. Students build skills in word processing, spreadsheets, databases, presentation and desktop publishing while applying professional standards of communication. Students will be expected to complete Microsoft Certification exams throughout the course.

Business Communications and Technologies

Course Numbers: 0840 | 13011500
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Foundations of Business Communication and Technologies
Industry-Based Certifications: Microsoft Office Specialist Certifications - Word Expert and Excel Expert

Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and produce advanced electronic presentations using appropriate multimedia software. Students will be expected to complete advanced Microsoft Certification exams throughout this course.

CTE Arts & AV Courses

Principles of Arts & AV

Find additional information in the CTE section of this guide.

AV I

Find additional information in the CTE section of this guide.

AV II

Find additional information in the CTE section of this guide.

Commercial Photography I

Find additional information in the CTE section of this guide.

Commercial Photography II (Yearbook)

Find additional information in the CTE section of this guide.

Digital Design and Media Production

Find additional information in the CTE section of this guide.

Practicum in Commercial Photography (Yearbook)

Find additional information in the CTE section of this guide.

Other CTE Courses

Project Based Capstone

Find additional information in the CTE section of this guide.

Anatomy & Physiology

Find additional information in the Science section of this guide.

Financial Mathematics

Find additional information in the Math section of this guide.

Other Electives

Student Leadership

Find additional information in the Other Electives section of this guide.

Debate

Find additional information in the English Electives section of this guide.

Physical Education

Find additional information in the Physical Education section of this guide.

Art

Find additional information in the Fine Arts section of this guide.

Theater

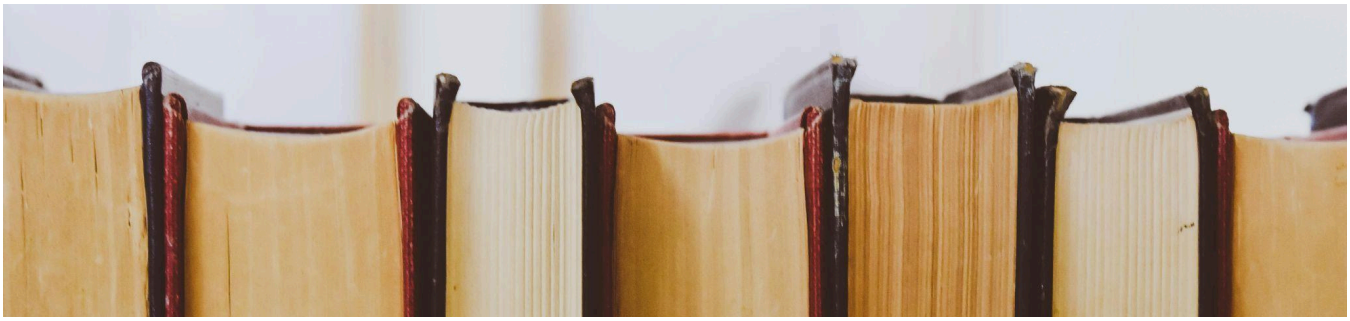
Find additional information in the Fine Arts section of this guide.

Theater Production

Find additional information in the Fine Arts section of this guide.



English



NISD English Course Sequence

Grade 9
English I * Honors English I * Honors/GT English I *
Grade 10
English II Honors English II Honors/GT English II
Grade 11
English III AP English III AP/GT English III OnRamps Dual Enrollment English Dual Credit English**
Grade 12
English IV AP English IV AP/GT English IV OnRamps Dual Enrollment English Dual Credit English**

* Denotes that the course requires an End of Course Test.

** See Online or Off-Campus Dual Credit Opportunities

Important: Depending on the student's graduation plan and endorsement, a student may satisfy the fourth English credit by completing other approved English courses.

English Courses

Summer reading is encouraged for all On-level, Honors, Honors/GT, AP, AP/GT, and OnRamps English courses. Summer reading lists are available at www.nisdtx.org.

English I, II, III and IV

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.

English I-IV Sheltered

Sheltered courses deliver the grade-appropriate curriculum (English 1-4) in a vocabulary-rich environment that supports emergent bilinguals (EBs) in developing content and English language proficiency.

- English is the language of instruction in sheltered classes.
- Primary language support is allowed to assist students in understanding the content.
- Students must be recommended for sheltered classes by the Language Proficiency Assessment Committee (LPAC).

English I

Course Numbers: 0021 | 03220100
Sheltered Instruction Course Numbers: ELA.S0021 | 03220100
Credits: 1
Grade Placement: 9
Semesters: 2
Weighted GPA: Level 2
Prerequisite: LPAC Recommendation for Sheltered

English II

Course Numbers: 0022 | 03220200
Sheltered Instruction Course Numbers: ELA.S0022 | 03220200
Credits: 1
Grade Placement: 10
Semesters: 2
Weighted GPA: Level 2
Prerequisite: English I, LPAC Recommendation for Sheltered

English III

Course Numbers: 0023 | 03220300
Sheltered Instruction Course Numbers: ELA.S0023 | 03220300
Credits: 1
Grade Placement: 11
Semesters: 2
Weighted GPA: Level 2
Prerequisite: LPAC Recommendation for Sheltered
Note: Resources and instructional strategies are embedded throughout the course to support student success on the Scholastic Aptitude Test (SAT).

English IV

Course Numbers: 0024 | 03220400
Sheltered Instruction Course Numbers: ELA.S0024 | 03220400
Credits: 1
Grade Placement: 12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: LPAC Recommendation for Sheltered
Note: Resources and instructional strategies are embedded throughout the course to support student success on the Texas Success Initiative Assessment 2.0 (TSIA2).

Honors English I

Course Numbers:
ELA.021H | 03220100
Credits: 1
Grade Placement: 9
Semesters: 2
Weighted GPA: Level 3
Prerequisite: None

Honors English I is designed for students who have shown exceptional mastery and understanding of the essential skills in grammar, writing, spelling, and reading. Honors English I 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 outside of class in addition to completing the assignments in class.

Honors/GT English I

Course Numbers:
ELA.021GH | 03220100
Credits: 1
Grade Placement: 9
Semesters: 2
Weighted GPA: Level 3
Prerequisite: GT Identified

English I GT is designed to meet the needs of the GT student by incorporating cross-curricular connections, complex and abstract thought, and Problem-Based Learning. Emphasis is placed on in- depth studies of literary genres, models of writing, grammar in relation to composition, and vocabulary study. Students are expected to read outside of class in addition to completing the assignments in class.

Honors English II

Course Numbers: ELA.022H | 03220200
Credits: 1
Grade Placement: 10
Semesters: 2
Weighted GPA: Level 3
Prerequisite: English I

Honors English II is designed for students who have shown exceptional mastery and understanding of grammar, writing, spelling, and reading. Honors English II includes an in-depth study of literary genres, models of writing, grammar, composition, and vocabulary study. Students are expected to read outside of class in addition to completing assignments in class.

Honors/GT English II

Course Numbers: ELA.022GH | 03220200
Credits: 1
Grade Placement: 10
Semesters: 2
Weighted GPA: Level 3
Prerequisite: English I and GT Identified

English II GT is designed to meet the needs of the GT student by incorporating cross-curricular connections, complex and abstract thought, and Problem-Based Learning. Emphasis is placed on in-depth studies of literary genres, models of writing, grammar in relation to composition, and vocabulary study. Students are expected to read outside of class in addition to completing assignments in class.

AP English III/AP English Language and Composition

Course Numbers: 0023A | 03220300
Credits: 1
Grade Placement: 11
Semesters: 2
Weighted GPA: Level 4

AP English Language and Composition is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situations, claims and evidence, reasoning and organization, and style. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

AP/GT English III English Language and Composition

Course Numbers: 0023G | 03220300
Credits: 1
Grade Placement: 11
Semesters: 2
Weighted GPA: Level 4
Recommended Prerequisite: GT Identified

AP English Language and Composition is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situations, claims and evidence, reasoning and organization, and style. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

OnRamps Dual Enrollment English III (RHE 306/ENGL 1301 in the fall and RHE 309/ ENGL 1302 in the spring) for ENG III A and B

Course Numbers:
D9023OR | 03220300
Credits: 1
Grade Placement: 11
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; Must have credit for English I and English II

This course is a dual enrollment course through UT Austin where students learn and practice well- established principles of rhetoric and argumentation in order to become more effective in analyzing and producing arguments. In particular, students examine arguments about the American identity and identity formation, both personal and cultural. The course is composed of 8 Big Ideas: Evaluating Sources, Rhetorical Situations, Analyzing Arguments, Conducting Research, Identifying Underlying Values, Formulating a Research Question, Giving and Receiving Feedback, and Drafting and Revising. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness OnRamps website for more details: nisdtx.org/onramps. UT Austin tuition for this course is paid to Northwest ISD. See the Advanced Placement, Dual Credit, and OnRamps section of this guide for details. Must successfully complete TSIA ELAR by the end of this course to be eligible to continue in OnRamps or Dual Credit after this course.

DC Composition I (ENGL 1301) for ENG III A, Grade Placement: 11

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC Composition II (ENGL 1302) for ENG III B, Grade Placement: 11

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

OnRamps Dual Enrollment English IV (RHE 306/ENGL 1301 in the fall and RHE 309/ ENGL 1302 in the spring) for ENG IV A and B

Course Numbers:
D9024OR | 03220400
Credits: 1
Grade Placement: 12
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; Must have credit for English I and English II

This course is a dual enrollment course through UT Austin where students learn and practice well- established principles of rhetoric and argumentation in order to become more effective in analyzing and producing arguments. In particular, students examine arguments about the American identity and identity formation, both personal and cultural. The course is composed of 8 Big Ideas: Evaluating Sources, Rhetorical Situations, Analyzing Arguments, Conducting Research, Identifying Underlying Values, Formulating a Research Question, Giving and Receiving Feedback, and Drafting and Revising. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness OnRamps website for more details: nisdtx.org/onramps. UT Austin tuition for this course is paid to Northwest ISD. See the Advanced Placement, Dual Credit, and OnRamps section of this guide for details.

AP English IV/English Literature and Composition

Course Numbers:
0024A | A3220200
Credits: 1
Grade Placement: 12
Semesters: 2
Weighted GPA: Level 4

AP English Literature and Composition is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

AP/GT English IV/English Literature and Composition

Course Numbers:
0024G | A3220200
Credits: 1
Grade Placement: 12
Semesters: 2
Weighted GPA: Level 4
Recommended Prerequisite: GT Identified

AP English Literature and Composition is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

DC Composition I (ENGL 1301) for ENG IV A, Grade Placement: 12

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC Composition II (ENGL 1302) for ENG IV B, Grade Placement: 12

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC British Literature I (ENGL 2322) for ENG IV A and B, Grade Placement: 12

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC British Literature I (ENGL 2322) for Independent Study in English, Grade Placement: 12

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC American Literature II (ENGL 2328) for ENG IV A and B, Grade Placement: 12

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC American Literature II (ENGL 2328) for Independent Study in English, Grade Placement: 12

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.



English Electives

After the successful completion of English I, II, and III, the additional credit may be selected from English IV or a course denoted by an asterisk (*). For NCAA information regarding acceptable core English courses, please visit eligibilitycenter.org

Communication

Communication Applications

Course Numbers:
0045 | 03241400
Credits: .5
Grade Placement: 9-12
Semesters: 1
Weighted GPA: Level 2
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.

Debate

Debate I, II and III

These courses are designed to teach formalized argument, professional communication, presentation, persuasion, theoretical analysis, critical thinking and the examination of rhetoric. In Debate I, students will survey a variety of competitive speech and debate events while learning to communicate in various contexts, prepare formal presentations, and demonstrate effective group communication in both formal and informal settings. These courses will also emphasize intensive research skills, critical thinking, written communication and case construction through preparation for participation in interscholastic competition. Participation in speech/ debate contests and after school practices is expected each semester for students enrolled.

Debate I

Course Numbers:
0071 | 03240600
Credits: 1
Grade Placement: 9-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

Students who complete Debate I will be eligible for Communication Applications/Speech credit if this credit was not previously earned.

Debate II

Course Numbers: 0072 | 03240700
Credits: 1
Grade Placement: 10-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Debate I

Debate III*

Course Numbers: 0073 | 03240800
Credits: 1
Grade Placement: 11-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Debate II

Independent Study in Speech (Debate IV) *

Course Numbers: 0074 | 03241200
Credits: 1
Grade Placement: 12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Debate III and teacher approval.

This is a course for fourth-year students in 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.

Oral Interpretation

Oral Interpretation I, II and III

These courses are designed for students interested in learning and improving performance-related skills while competing in interscholastic speech tournaments. First year students will survey each of the competitive interpretation events, while second and third year competitors will focus on selection, development and performance of prose, poetry, dramatic interpretation, humorous interpretation, duo interpretation, duet, original oratory, storytelling, Reader's Theater, monologues, and one act plays. Students will also learn how to choose and cut performance literature as well as write transitions and introductions. In addition, students will do in depth study and analysis of characters while incorporating movement (blocking) into competitive performance. Participation in speech contests and after school practices is expected each semester for students enrolled. Third year students will be expected to prepare for state and national qualifying competitions, as scheduled throughout the year.

Oral Interpretation I

Course Numbers:
0076 | 03240200
Credits: 1
Grade Placement: 9-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

Students who complete Oral Interpretation I will be eligible for Communication Applications/ Speech credit if this credit was not previously earned.

Oral Interpretation II

Course Numbers: 0077 | 03240300
Credits: 1
Grade Placement: 10-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Oral Interpretation I

Oral Interpretation III *

Course Numbers: 0078 | 03240400
Credits: 1
Grade Placement: 11-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Oral Interpretation II

Independent Study in Speech (Oral Interpretation IV) *

Course Numbers:
ELA.0079 | 03241200
Credits: 1
Grade Placement: 12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Oral Interpretation III and teacher approval.

This is a course for fourth year students in Oral Interpretation. 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.

Other English Electives

Business English*

Course Numbers:
CT.0025 | 13011600
Credits: 1
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 2
Prerequisite: English III

In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

DC Technical & Business Writing (ENGL 2311) for Business English A and B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

College Preparatory English*

Course Numbers:
0084 | CP110100
Credits: 1
Grade Placement: 12
Semesters: 2
Weighted GPA: Level 2
Prerequisite:
Administrator approval

In this college-preparatory course, students will improve integrated critical reading and writing skills through engagement with a variety of texts across content areas and genres. As a result, students will be able to develop and express ideas clearly and effectively to communicate with various audiences for various purposes and occasions. This course is not a dual enrollment course, but meeting the course requirements and successfully receiving credit will help prepare students to meet the TSIA-2 requirements in ELA, Reading and Writing for TCC for the next year.

Creative Writing *

Course Numbers:
0029 | 03221200
Credits: 1
Grade Placement: 9-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

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

Literary Genres (Introduction to Mythology and Heroes of Mythology) *

Course Numbers:
ELA.0025 | 03221500
Credits: 1
Grade Placement: 10-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

This course will begin by examining the myths and legends of Western civilizations from the ancient Greeks to the 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. The student will further advance into the study of the hero myths with an emphasis on traditional and modern epics.

Practical Writing Skills

Course Numbers: ELA.0015 | 03221300
Sheltered Instruction Course Numbers: ELA.S0015 | 03221300
Credits: 1
Grade Placement: 10-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Counselor or administrator approval; LPAC Recommendation for Sheltered

This course is designed to develop and support students that have not yet mastered the English I and/or English II EOC. High leverage writing, reading, and thinking strategies will be implemented in order to strengthen the writing, reading, and thinking of the students in this course. This course is for elective credit only. This course does not substitute for an English credit.

Reading I, II and III

This course is designed to develop and support students in need of reading, writing, and study skills.

Reading I-II Sheltered Instruction

This course is designed to develop and support students in need of reading, writing, and study skills. LPAC Recommendation.

Reading I

Course Numbers: 0004 | 03270700
Sheltered Instruction Course Numbers: ELA.S0004 | 03270700
Credits: 1
Grade Placement: 9-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Counselor approval; LPAC recommendation for Sheltered

Reading II

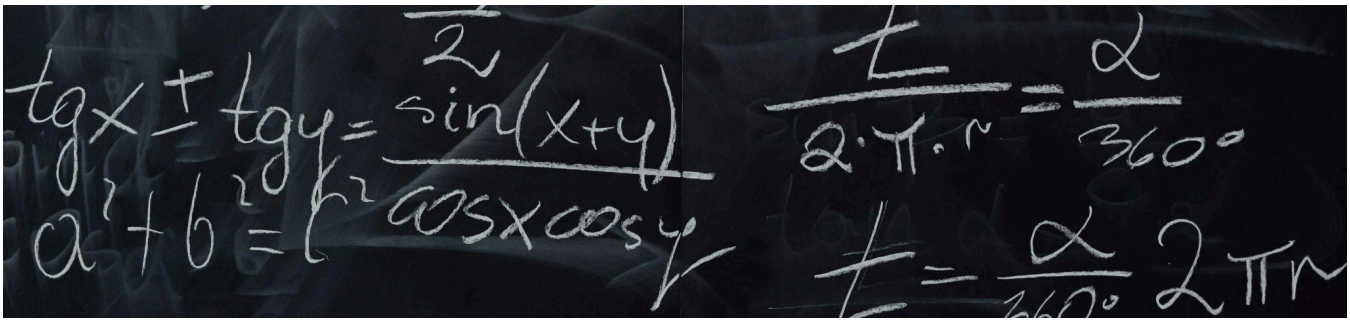
Course Numbers: 0006 | 03270800
Sheltered Instruction Course Numbers: ELA.S0006 | 03270800
Credits: 1
Grade Placement: 10-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Counselor approval and Reading I; LPAC recommendation for Sheltered

Reading III

Course Numbers: 0007 | 03270900
Credits: 1
Grade Placement: 11-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Counselor approval and Reading II



Math



NISD Mathematics Course Sequence

Grade 9
Algebra I * Honors Algebra I *
Grade 10
Geometry Honors Geometry Honors/GT Geometry
Grade 11
Advanced Math
Grade 12
Financial Mathematics *** OR Advanced Math

* Denotes that the course requires an End of Course Test.

** See Online or Off-Campus Dual Credit Opportunities

*** This course is not an advanced math course and does not meet NCAA eligibility for student-athletes.

Important: Students who take high school math courses in middle school must take a minimum of three additional math courses in high school. To ensure that students are college and career ready, students are encouraged to take four years of math in high school.

Advanced Math Courses:

- Algebraic Reasoning***
- Algebra II, Honors Algebra II, Honors/GT Algebra II, or OnRamps College Algebra
- Advanced Quantitative Reasoning (AQR)
- Precalculus or OnRamps Precalculus
- OnRamps Statistics (HS Independent Study credit)
- AP Precalculus
- AP Calculus AB
- AP Calculus BC
- Multivariable Calculus
- AP Statistics
- DC College Algebra ** (Independent Study in Math A or B)
- DC Contemporary Mathematics ** (HS AQR or Independent Study in Math A or B credit)
- DC Elementary Statistics ** (HS Independent Study credit)
- DC Precalculus ** (HS Precalculus credit

Mathematics Courses

Algebra I

Course Numbers:
0104 | 03100500
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Pre-Algebra

In Algebra I, students will build on the knowledge and skills from mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations.

Honors Algebra I

Course Numbers:
M.0104H | 03100500
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: Pre-Algebra

Honors Algebra I includes the same course of study designed for Algebra I. In addition, students will develop advanced problem solving and symbol manipulation skills. Honors students will be expected to take course concepts to advanced levels of development, understanding, and justification. Honors assignments and assessments will be designed to model AP exam formatting.

Geometry

Course Numbers:
0112 | 03100700
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I or Honors Algebra I; may be taken concurrently with Algebra II with teacher recommendation.

In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will connect previous knowledge from Algebra I to Geometry through the coordinate and transformational geometry strand. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. Students will use deductive reasoning to justify, prove and apply theorems about geometric figures.

Honors Geometry

Course Numbers:
M.0112H | 03100700
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: Algebra I or Honors Algebra I; may be taken concurrently with Algebra II with teacher recommendation.

Honors Geometry includes the same course of study designed for Geometry. In addition, students will develop advanced problem solving and symbol manipulation skills. Honors students will be expected to take course concepts to advanced levels of development, understanding, and justification. Honors assignments and assessments will be designed to model AP exam formatting.

Honors/GT Geometry

Course Numbers:
M.0112GH | 03100700
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: Algebra I or Honors Algebra I; may be taken concurrently with Algebra II with teacher recommendation.

Honors/GT Geometry is designed to meet the needs of gifted students by combining Honors strategies with enhanced depth, complexity, and pacing of the Mathematics curriculum. Thinking skills, exploratory learning, and leadership qualities are promoted. Honors/GT Geometry includes the same course of study designed for Geometry. In addition, students will develop advanced problem solving and symbol manipulation skills. Honors/ GT students will be expected to take course concepts to advanced levels of development, understanding, and justification. Honors/GT assignments and assessments will be designed to model AP exam formatting.

Financial Mathematics

Course Numbers:
0122 | 13018000
Credits: 1
Grade Placement: 10-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I or Honors Algebra I

Financial mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. This course will integrate career and postsecondary education planning into financial decision making. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Algebraic Reasoning

Course Numbers:
0125 | 03102540
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I or Honors Algebra I

Students will build on the knowledge and skills for mathematics in Kindergarten - Grade 8 and Algebra 1, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets.

The course is recommended for students who did not pass the Algebra I EOC. It is also recommended for students who need to build more foundational skills prior to taking Algebra II. Students who have completed Algebra II should not take Algebraic Reasoning.

This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Algebra II

Course Numbers:
0109 | 03100600
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I or Honors Algebra I, may be taken concurrently with Geometry with teacher recommendation.

In Algebra II, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods.

Honors Algebra II

Course Numbers:
M.0109H | 03100600
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: Algebra I or Honors Algebra I, may be taken concurrently with Geometry or Honors Geometry with teacher recommendation.

Honors Algebra II includes the same course of study designed for Algebra II. In addition, students will develop advanced problem solving and symbol manipulation skills. Honors students will be expected to take course concepts to advanced levels of development, understanding, and justification. Honors assignments and assessments will be designed to model AP exam formatting.

Honors/GT Algebra II

Course Numbers:
M.0109GH | 03100600
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: Algebra I or Honors Algebra I, may be taken concurrently with Geometry or Honors Geometry with teacher recommendation.

Honors/GT Algebra II is designed to meet the needs of gifted students by combining Honors strategies with enhanced depth, complexity, and pacing of the Mathematics curriculum. Thinking skills, exploratory learning, and leadership qualities are promoted. Honors/GT Algebra II includes the same course of study designed for Algebra II. In addition, students will develop advanced problem solving and symbol manipulation skills. Honors/ GT students will be expected to take course concepts to advanced levels of development, understanding, and justification. Honors/GT assignments and assessments will be designed to model AP exam formatting.

OnRamps Dual Enrollment College Algebra (M301) for Algebra II A and B

Course Numbers:
M.D9109OR | 03100600
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; Algebra I and Geometry

OnRamps College Algebra is a dual enrollment course concerned with the basic facts and techniques of algebra that are used over and over again in almost every college-level mathematics course, as well as in other courses and everyday mathematics. Students will develop a clear understanding of these concepts. Content includes the rational, real and complex number systems; the study of functions including polynomial, rational, radical, exponential, and logarithmic functions and related equations; inequalities; systems of linear equations; and sequences and counting theory. OnRamps College Algebra is a dual enrollment partnership with the University of Texas at Austin. Students must demonstrate their ability to do college level work in order for the opportunity to earn college credit during the spring semester. See the NISD College and Career Readiness OnRamps website for more details: nisdtx.org/onramps. UT Austin tuition for this course is paid to Northwest ISD. See the Advanced Placement, Dual Credit, and OnRamps section of this guide for details. Must successfully complete TSIA math by the end of this course to be eligible to continue in OnRamps or Dual Credit after this course.

Advanced Quantitative Reasoning

Course Numbers:
0107 | 03102510
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I or Honors Algebra I, Geometry or Honors Geometry, and Algebra II or Honors Algebra II

In Advanced Quantitative Reasoning, students will develop and apply skills necessary for college, careers, and life. Course content consists primarily of applications of high school mathematics concepts to prepare students to become well-educated and highly informed 21st century citizens. Students will develop and apply reasoning, planning, and communication to make decisions and solve problems in applied situations involving numerical reasoning, probability, statistical analysis, finance, mathematical selection, and modeling with algebra, geometry, trigonometry, and discrete mathematics.

DC Contemporary Mathematics (MATH 1332) for Advanced Quantitative Reasoning A and B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC Contemporary Mathematics (MATH 1332) for Independent Study in Math A or B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

Precalculus

Course Numbers: 0126 | 03101100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I or Honors Algebra I, Geometry or Honors Geometry, and Algebra II or Honors Algebra II

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

AP Precalculus

Course Numbers: M.00126AP | A3100100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Algebra I or Honors Algebra I, Geometry or Honors Geometry, and Algebra II or Honors Algebra II

AP Precalculus prepares students for other college- level mathematics and science courses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. The course framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. Students can not receive credit for both AP Precalculus and OnRamps Dual Enrollment Precalculus Mathematics.

OnRamps Dual Enrollment Precalculus Mathematics (M305/MATH 2312) for Precalculus A and B

Course Numbers: M.D9126OR | 03101100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; Algebra II or Honors Algebra II

This course is a dual enrollment course through UT Austin where students learn through creation, exploration, communication and criticism under the guidance of the instructor through PBL. The course is divided into seven units, each unit consists of a series of explorations designed to engage students and empower them to develop their problem- solving skills. In each exploration students will create connections with prior concepts in developing the current topic. Precalculus OnRamps is a dual enrollment partnership with the University of Texas at Austin. Students must demonstrate their ability to do college-level work in order for the opportunity to earn college credit during the spring semester. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness OnRamps website for more details: www.nisdtx.org/onramps. UT Austin tuition for this course is paid to Northwest ISD. See the Advanced Placement, Dual Credit, and OnRamps section of this guide for details. Students can not receive credit for both AP Precalculus and OnRamps Dual Enrollment Precalculus Mathematics. Must successfully complete TSIA math by the end of this course to be eligible to continue in OnRamps or Dual Credit after this course.

DC Precalculus Mathematics (MATH 2412) for Precalculus A and B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

AP Calculus AB

Course Numbers: 0117A | A3100101
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Precalculus or Honors/AP Precalculus

AP Calculus AB is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. Concurrent enrollment in AP Calculus AB and AP Calculus BC is not permitted. Students who have earned credit in AP Calculus BC have met the standards for this course and are not eligible for enrollment.

AP Calculus BC

Course Numbers: 0119A | A3100102
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Precalculus or Honors/AP Precalculus

AP Calculus BC is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. Concurrent enrollment in AP Calculus AB and AP Calculus BC is not permitted.

Multivariable Calculus

Course Numbers: M.0118 | N1110018
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: AP Calculus BC

This course is designed as an additional math course for those students who have successfully completed AP Calculus BC and have an interest in continuing their mathematical studies while in high school. Multivariable Calculus takes the concepts learned in the single variable calculus course and extends them to multiple dimensions. Topics discussed include: vector algebra; applications of the dot and cross product; equations of lines, planes, and surfaces in space; converting between rectangular, cylindrical, and spherical coordinates; continuity, differentiation, and integration of vector-valued functions; application of vector-valued functions such as curvature, arc length, speed, velocity, and acceleration; continuity, limits, and derivatives of multivariable functions, tangent planes and normal lines of surfaces; applying double and triple integrals to multivariable functions to find area, volume, surface area, mass, center of mass, and moments of inertia; vector fields; finding curl and divergence of vector fields; line integrals; conservative vector fields, conservation of energy; Green's Theorem; parametric surfaces, including normal vectors, tangent planes, and areas; orientation of a surface; Divergence Theorem; and Stokes's Theorem. There is no Advanced Placement test or other college credit associated with this course.

AP Statistics

Course Numbers: 0128A | A3100200
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Algebra II or Honors Algebra II

AP Statistics is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. Students can not receive credit for both AP Statistics and OnRamps Dual Enrollment Elementary Statistical Methods.

OnRamps Dual Enrollment Elementary Statistical Methods (SDS 302/MATH 1342) for Independent Study in Math A and B

Course Numbers:
M.D928OR | 03102501
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; Algebra II or Honors Algebra II

OnRamps Statistics is a dual enrollment data analysis course for high school juniors and seniors seeking to develop the quantitative reasoning skills and habits of mind necessary to succeed in the higher education environment. This course will focus on simulation to support understanding of high-level concepts including lessons on experimental design and a high school research poster project to provide hands-on practical understanding opportunities. Statistics OnRamps is a dual enrollment partnership with the University of Texas at Austin. Students must demonstrate their ability to do college-level work in order for the opportunity to earn college credit during the spring semester. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness OnRamps website for more details: www.nisdtx.org/onramps. UT Austin tuition for this course is paid to Northwest ISD. See the Advanced Placement, Dual Credit, and OnRamps section of this guide for details. Students can not receive credit for both AP Statistics and OnRamps Dual Enrollment Elementary Statistical Methods. Must successfully complete TSIA math by the end of this course to be eligible to continue in OnRamps or Dual Credit after this course.

Strategic Learning for High School Mathematics

Course Numbers:
M.1029 | N1110030
Credits: 1 (Elective)
Grade Placement: 9-10
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Grade Placement Committee

This course is intended to create strategic mathematical learners from under-prepared mathematics students. The basic understandings will stimulate students to think about their approach to mathematical learning. These basic understandings will include identifying errors in the teaching and learning process, input errors, physiological concerns, and key cognitive skills. The essential knowledge and skills will foster a deeper understanding of the task of learning mathematical concepts, including and targeting the concepts in the Algebra 1 curriculum. Use of personal data and statistical analysis will establish relevance and aid in creation of individualized learning plans (ILP's). This course will not count for a required high school math credit; however, students will receive an elective credit upon successful completion. Recommended for students currently enrolled in Algebra I to support success on STAAR Algebra I EOC.

Manufacturing Engineering Technology II

Course Numbers:
CT.4106 | 13032950
Credits: 1
Grade Placement: 10-12
Semesters: 2
Weighted GPA: Level 2
Required Prerequisite: Manufacturing Engineering Technology I
Recommended prerequisite: Algebra II, Honors Computer Science I, or Physics

Students will reinforce, apply, and transfer knowledge and skills to develop systems using electrical controls and pneumatics or hydraulics devices, troubleshoot programmable logic controls for robot systems and develop a product on a CNC machine/lathe. Coursework will include using mathematical processes to analyze mathematical relationships, communicate ideas, and justify mathematical ideas/arguments using precise language in both written and oral communication. This course counts as a Math credit. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

College Preparatory Mathematics

Course Numbers:
0085 | CP111200
Credits: 1
Grade Placement: 12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Three years of high school mathematics courses

Topics include real numbers, basic geometry, polynomials, factoring, linear equations, inequalities, quadratic equations, rational expressions, factoring techniques, radicals, algebraic fractions, complex numbers, graphing linear equations and inequalities, quadratic equations, systems of equations, graphing quadratic equations and an introduction to functions. Emphasis is placed on algebraic techniques, in order to successfully complete an entry-level college mathematics course. This course is not a dual enrollment course, but meeting the course requirements and successfully receiving credit will help prepare students to meet the TSIA-2 requirements in mathematics for TCC for the next year.

DC College Algebra (MATH 1314) for Independent Study in Math A or B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC Precalculus Mathematics (MATH 2412) for Independent Study in Math A or B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC Elementary Statistics (MATH 1342) for Independent Study in Math A or B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

Mathematical Models with Applications

Course Numbers:
0108 | 03102400
Credits: 1
Grade Placement: 10-11
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I. This course must be taken before receiving credit for Algebra II.

Mathematical Models with Applications is designed to build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. In Mathematical Models with Applications, students will use a mathematical modeling cycle to analyze problems, understand problems better, and improve decisions. A basic mathematical modeling cycle includes identifying essential features of a problem and formulating a model that describes relationships; analyzing and performing operations to draw conclusions; interpreting the results of the mathematics; confirming conclusions by comparing and revising as necessary; and reporting on the conclusions and the reasoning behind the conclusions.



Science



NISD Science Course Sequence

Grade 9
IPC Biology * Honors Biology *
Grade 10
IPC Chemistry Honors Chemistry Honors Physics AP Physics 1 OnRamps Physics
Grade 11
Advanced Science
Grade 12
Advanced Science

Advanced Science Courses:

- Chemistry or Honors Chemistry
- Honors Physics or OnRamps Physics
- Astronomy
- Environmental Systems
- Advanced Animal Science
- Anatomy and Physiology
- Forensic Science
- Scientific Research and Design
- AP Biology
- AP Chemistry
- AP Physics 1
- AP Physics C: Mechanics
- AP Physics C: Electricity & Magnetism
- AP Environmental Science
- DC Human Anatomy and Physiology I**
- DC Human Anatomy and Physiology II**
- DC College Physics I **
- DC College Physics II **
- DC General Chemistry I **
- DC General Chemistry II **
- DC Environmental Biology *

* Denotes that the course requires an End of Course Test.
** See Online or Off-Campus Dual Credit Opportunities

Science Courses

Integrated Physics and Chemistry

Course Numbers:
0214 | 03060201
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

Integrated Physics and Chemistry (IPC) is the study of physical and chemical interactions of matter. Semester I covers introductory concepts in Chemistry, while Semester II covers introductory concepts in Physics. This course provides an excellent foundation in science for students who are not pursuing a STEM endorsement and need to build capacity in science. This course may not be taken after the completion of chemistry or physics.

Biology

Course Numbers:
0205 | 03010200
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

Biology is the study of the structure, growth, and function of the life systems of organisms. Students learn the basics of structures and functions of living things and how those structures and functions change. Data collection and analysis is a key skill emphasized in Biology in preparation for the End of Course (EOC) Exam that is required for graduation.

Honors Biology

Course Numbers:
SC.0205H | 03010200
Credits: 1
Semesters: 2
Weighted GPA: Level 3
Prerequisite: None

Biology is the study of the structure, growth, and function of the life systems of organisms. Students learn the basics of structures and functions of living things and how those structures and functions change. Data collection and analysis is a key skill emphasized in Biology in preparation for the End of Course (EOC) Exam that is required for graduation. This course will have an emphasis on lab experiences that provide opportunities for students to engage in gathering and processing complex data in order to produce high quality technical conclusions based on that data. Additional emphasis is placed on technical writing.

Chemistry

Course Numbers:
0207 | 03040000
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Biology or Honors Biology, and Algebra I or Honors Algebra I

Chemistry is the study of the composition of substances and the changes they undergo. Chemistry focuses on the skills of gathering and analyzing both qualitative (observational) and quantitative (numerical) data. A conceptual understanding of fundamental mathematical concepts is needed for this course as the same type of thinking is required.

Honors Chemistry

Course Numbers:
SC.0207H | 03040000
Credits: 1
Semesters: 2
Weighted GPA: Level 3
Prerequisite: Biology or Honors Biology, and Algebra I or Honors Algebra I.
Recommended Prerequisite: Completion or concurrent enrollment in Honors Geometry, Algebra II, Honors Algebra II or OnRamps Algebra II

Honors Chemistry includes an in-depth study of basic concepts taught in Chemistry with emphasis on problem solving and laboratory. Honors Chemistry provides students opportunities to engage in higher level lab experiences that emphasize collection and analysis of complex data in order to produce high quality technical conclusions based on the data. Additional emphasis is placed on technical writing.

DC General Chemistry I (CHEM 1411) for Chemistry A

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC General Chemistry I (CHEM 1411) for Specialized Topics in Science A

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC General Chemistry II (CHEM 1412) for Chemistry B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC General Chemistry II (CHEM 1412) for Specialized Topics in Science B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

Physics (On-level) - Credit Recovery Only

Course Numbers:
SC.0216CR | 03050000
Credits: 1
Semesters: 2
Weighted GPA: N/A (Pass/Fail only)
Prerequisite: Biology or Honors Biology, and Algebra I or Honors Algebra I

Physics is the study of the relationships between matter and energy. Data analysis and problem solving skills are emphasized. Real world applications and data collection devices are used to teach process and skill.

Honors Physics

Course Numbers:
SC.0209H | 03050000
Credits: 1
Semesters: 2
Weighted GPA: Level 3
Prerequisite: Biology or Honors Biology, and Algebra I or Honors Algebra I
Recommended Prerequisite: Concurrent enrollment in Precalculus

Honors physics explores the intricate connections between matter and energy, challenging students with advanced problem-solving scenarios and data analysis exercises. Beyond the fundamentals, we explore real-world applications, incorporating state- of-the-art data collection devices to provide students with a comprehensive understanding of physics in the modern world. This course is designed for students with a strong math background.

DC College Physics I (PHYS 1401) for Physics A

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC College Physics I (PHYS 1401) for Specialized Topics in Science A

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC College Physics II (PHYS 1402) for Physics B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC College Physics II (PHYS 1402) for Specialized Topics in Science B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

AP Biology

Course Numbers: 0205A | A3010200
Credits: 1
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Biology or Honors Biology, and Chemistry, Honors Chemistry, or concurrent enrollment in Chemistry or Honors Chemistry

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

AP Physics 1

Course Numbers: 0217A | A3050003
Credits: 1
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Algebra II, Honors Algebra II, OnRamps Algebra II or concurrent enrollment in Algebra II
Recommended Prerequisite: Concurrent enrollment in Precalculus

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry- based laboratory work as they explore concepts like systems, fields, force interactions, change, and conservation. This course is ideal for students wishing to pursue science-related majors/careers. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

AP Physics C: Mechanics

Course Numbers: 0215A | A3050006
Credits: 1
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Honors/AP Precalculus or concurrent enrollment in Honors/AP Precalculus
Recommended Prerequisite: AP Calculus AB or BC or concurrent enrollment

AP Physics C: Mechanics is a calculus-based, college- level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences or engineering. Students cultivate their understanding of physics through classroom study and activities as well as hands-on laboratory work as they explore concepts like change, force interactions, fields, and conservation. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

AP Physics C: Electricity and Magnetism

Course Numbers:
0219A | A3050005
Credits: 1
Semesters: 2
Weighted GPA: Level 4
Prerequisite: AP Physics C: Mechanics credit or concurrent enrollment in AP Physics C: Mechanics and AP Calculus BC

AP Physics C: Electricity and Magnetism is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences or engineering. Students cultivate their understanding of physics through classroom study and activities as well as hands-on laboratory work as they explore concepts like change, force interactions, fields, and conservation. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

OnRamps Physics Dual Enrollment Physics (PHY 302K/PHYS 1301)

OnRamps Physics is a dual enrollment course that focuses on mechanics, heat, and sound aspects of Physics during the first semester and completes the requirements of a general physics technical I course. OnRamps Physics is dual enrollment partnership with the University of Texas at Austin. Students must demonstrate their ability to do college level work during the fall semester in order for the opportunity to earn college credit during the spring semester. See the NISD College and Career Readiness OnRamps website for more details: www.nisdtx.org/onramps. UT Austin tuition for this course is paid to Northwest ISD. See the Advanced Placement, Dual Credit, and OnRamps section of this guide for details.

OnRamps Physics Dual Enrollment (PHY 302K/PHYS 1301) for Physics A and B
Course Numbers: SC.D921OR | 03050000
Credits: 1
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; Algebra I, Geometry
Recommended Prerequisite: Algebra II or Precalculus

OnRamps Physics Dual Enrollment (PHY 302K/PHYS 1301) for Specialized Topics in Science A and B
Course Numbers: SC.D931OR | 03060300
Credits: 1
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; Algebra I, Geometry
Recommended Prerequisite: Algebra II or Precalculus

AP Chemistry

Course Numbers: 0207A | A3040000
Credits: 1
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Honors Chemistry, and Algebra II, Honors Algebra II or OnRamps Algebra II

AP Chemistry is an introductory college-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

AP Environmental Science

Course Numbers: 0212A | A3020000
Credits: 1
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Biology or Honors Biology, and Chemistry, Honors Chemistry, or concurrent enrollment in Chemistry or Honors Chemistry

Students cultivate their understanding of the interrelationships of the natural world through inquiry-based lab investigations and field work as they explore concepts like the four Big Ideas; energy transfer, interactions between earth systems, interactions between different species and the environment, and sustainability. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

Advanced Animal Science

Course Numbers: 08182 | 13000700
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Required Prerequisite: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and Livestock and Poultry Production
Recommended Prerequisite: Veterinary Medical Applications

Students will learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the correspondence of human, scientific, and technological aspects of animal science through field and laboratory experience. Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement and will be included in the calculation of the weighted GPA. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Anatomy and Physiology

Course Numbers:
0211 | 13020600
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Required Prerequisite: Biology or Honors Biology and a second science credit (Chemistry or Physics)
Recommended Prerequisite: A course from the Health Science career cluster

Anatomy and Physiology is designed for students interested in biological, medical, and health oriented programs. Students will study the structures and functions of the human body. The body's systems will be investigated as to the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. The topics will be presented through an integration of biology, chemistry, and physics. In this laboratory course, the students conduct laboratory investigations, perform dissections, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. This course satisfies a high school science graduation requirement and will be included in the calculation of the weighted GPA.

DC Anatomy and Physiology (BIOL 2401) for Anatomy and Physiology A

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC Anatomy and Physiology (BIOL 2402) for Anatomy and Physiology B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

Astronomy

Course Numbers:
SC.0203 | 03060100
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I and Integrated Physics and Chemistry or Chemistry.

In Astronomy, students conduct laboratory and field investigations, apply scientific methods, and make informed decisions through critical thinking. They explore topics such as astronomy's historical significance, celestial patterns, our place in space, the moon, seasonal variations, planets, the sun, stars, galaxies, cosmology, and space exploration. Completing the Astronomy course equips students with a solid knowledge framework, observational skills, collaborative experience, and enhanced critical thinking.

Environmental Systems

Course Numbers: 0213 | 03020000
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Biology
Recommended Prerequisite: Integrated Physics and Chemistry (IPC), Chemistry, or concurrent enrollment in either course.

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.

DC Environmental Biology (BIOL 2406) for Environmental Systems A and B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

Forensic Science

Course Numbers: 08591 | 13029500
Blended Course Numbers: CT.B08591 | 13029500
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Biology or Honors Biology and Chemistry or Honors Chemistry

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science. This course satisfies a high school science graduation requirement and will be included in the calculation of the weighted GPA.

Scientific Research and Design - Science, Technology, Engineering, and Mathematics

SRD-BL-STEM
Course Numbers:
CT.B418AC | 13037200
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Required Prerequisite:
PLTW IED; academy facilitator approval; Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics

In this PLTW course, students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply, and renewable energy. This course satisfies a high school science graduation requirement and will be included in the calculation of the weighted GPA.

DC Stars and Galaxies (PHYS 1403) for Astronomy A

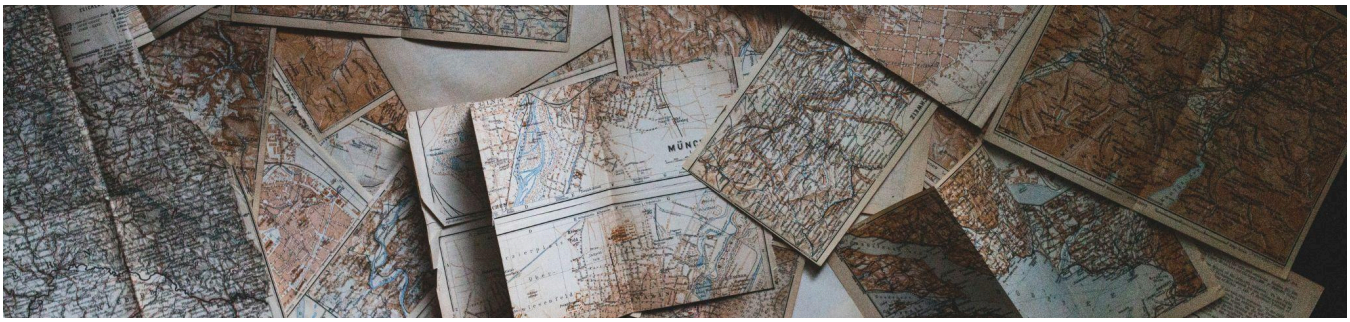
Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

DC Solar System (PHYS 1404) for Astronomy B

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.



Social Studies



NISD Social Studies Course Sequence

Grade 9
World Geography Honors World Geography AP Human Geography AP/GT Human Geography
Grade 10
World History Honors World History AP World History AP/GT World History
Grade 11
United States History * OnRamps United States History * AP United States History * AP/GT United States History *
Grade 12
US Government/Economics DC US Government**/DC Economics** AP US Government/AP Economics AP/GT US Government/AP/GT Economics OnRamps Government/OnRamps Economics *(Personal Financial Literacy to replace Economics, beginning with students entering 9th grade in 2026-2027. Advanced options TBD)*

* Denotes that the course requires an End of Course Test.

** See Online or Off-Campus Dual Credit Opportunities

Social Studies Courses

World Geography Studies

Course Numbers:
0302 | 03320100
Credits: 1
Grade Placement: 9
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

It is recommended to participate in this course during the 9th grade year. In World Geography Studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions.

Honors World Geography Studies

Course Numbers:
SS.0302H | 03320100
Credits: 1
Grade Placement: 9
Semesters: 2
Weighted GPA: Level 3
Prerequisite: None

It is recommended to participate in this course during the 9th grade year. In World Geography Studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions. Students will also practice and develop skills intended to prepare them for AP courses in the future.

AP or AP/GT Human Geography

Course Numbers:
0322A | A3360100
GT Course Number:
0322G | A3360100
Credits: 1
Grade Placement: 9-12
Semesters: 2
Weighted GPA: Level 4
Prerequisite: None

AP Human Geography is an introductory college- level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

World History Studies

Course Numbers:
0303 | 03340400
Credits: 1
Grade Placement: 10
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

It is recommended to participate in this course during the 10th grade year.. World History Studies is a survey of the history of humankind. Due to the expanse of world history and the time limitations of the school year, the scope of this course should focus on "essential" concepts and skills that can be applied to various eras, events, and people within the standards in subsection (d) of this section. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems. Students analyze the process by which constitutional governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies, and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence.

Honors World History Studies

Course Numbers:
SS.0303H | 03340400
Credits: 1
Grade Placement: 10
Semesters: 2
Weighted GPA: Level 3
Prerequisite: None

It is recommended to participate in this course during the 10th grade year.. World History Studies is a survey of the history of humankind. Due to the expanse of world history and the time limitations of the school year, the scope of this course should focus on "essential" concepts and skills that can be applied to various eras, events, and people within the standards in subsection (d) of this section. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems. Students analyze the process by which constitutional governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies, and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence. Students will also practice and develop skills intended to prepare them for AP courses in the future.

AP or AP/GT World History

Course Numbers:
0303A | A3370100
GT Course Numbers:
0303G | A3370100
Credits: 1
Grade Placement: 10-12
Semesters: 2
Weighted GPA: Level 4
Prerequisite: It is recommended to have credit for World Geography, Honors World Geography, or AP Human Geography.

AP World History: Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

United States History Studies since Reconstruction

Course Numbers:
0301 | 03340100
Credits: 1
Grade Placement: 11
Semesters: 2
Weighted GPA: Level 2
Prerequisite: It is recommended to have credit for World Geography, Honors World Geography, or AP Human Geography and/or World History or AP World History.

It is recommended to participate in this course during the 11th grade year. In United States History Studies Since 1877, students study the history of the United States from 1877 to the present. The course content is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights. Students examine the impact of geographic factors on major events and eras and analyze their causes and effects. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students describe the relationship between the arts and popular culture and the times during which they were created. Students analyze the impact of technological innovations on American life. Students use critical-thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context.

AP or AP/GT United States History

Course Numbers:
0301A | A3340100
GT Course Numbers:
0301G | A3340100
Credits: 1
Grade Placement: 11
Semesters: 2
Weighted GPA: Level 4
Prerequisite: It is recommended to have credit for World Geography, Honors World Geography, or AP Human Geography and/or World History or AP World History.

AP United States History is a college-level history AP U.S. History is an introductory college-level U.S. history course. Students cultivate their understanding of U.S. history from c. 1491 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

OnRamps Dual Enrollment US History (HIS 315K/HIST 1301 in the fall and HIS 315L/HIST 1302 in the spring) for US History A and B

Course Numbers:
SS.D903OR | 03340100
Credits: 1
Grade Placement: 11
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval

US History OnRamps dual enrollment through UT Austin will provide students the opportunity to attempt college-level work in the study of the History of the United States. Students will experience the curricular expectations, writing requirements and study of American history in the same coursework as students enrolled at UT Austin but with the course support of NISD instructors. US History OnRamps is a dual enrollment partnership with the University of Texas at Austin. Students must demonstrate their ability to do college-level work in order for the opportunity to earn college credit during the spring semester. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness OnRamps website for more details: www.nisdtx.org/onramps. UT Austin tuition for this course is paid to Northwest ISD. See the Advanced Placement, Dual Credit, and OnRamps section of this guide for details.

US Government

Course Numbers:
0304 | 03330100
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 2
Prerequisite: United States History Studies since Reconstruction or AP United States History, or concurrent enrollment.

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 evolution of the government, the United States Constitution, the Bill of Rights, and important Supreme Court decisions. In US Government courses, students will complete requirements for Instruction on Proper Interaction with Peace Officers (TAC), §74.39.

AP or AP/GT US Government and Politics

Course Numbers:
0304A | A3330100
GT Course Numbers:
SS.G0304A | A3330100
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: United States History Studies since Reconstruction or AP United States History, or concurrent enrollment.

AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. In all AP US Government courses, students will complete requirements for Instruction on Proper Interaction with Peace Officers (TAC), §74.39.

DC US Government (GOVT 2305)

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

OnRamps U.S. Government (GOV 312L / GOVT 2302)

Course Numbers: SS.03045OR | 03330100
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; US History or concurrent enrollment.

This course introduces the American principles for self-government established by the founders with the goal of preparing students to take an active role in civic life. Students learn about their rights and responsibilities as individual citizens and their ability to participate in government, including the right to vote and run for office.The course also explores how American government was shaped during its founding and how it has evolved, as well as core texts and key events that influenced the development of American citizenship. This course is a Texas Core Curriculum course (core code:070). See the NISD College and Career Readiness OnRamps website for more details: www.nisdtx.org/onramps. UT Austin tuition for this course is paid to Northwest ISD. See the Advanced Placement, Dual Credit, and OnRamps section of this guide for details.
In all Government courses, students will complete requirements for Instruction on Proper Interaction with Peace Officers (TAC), §74.39.

Economics/Free Enterprise

Course Numbers: 0305 | 03310300
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 2
Prerequisite: United States History Studies since Reconstruction or AP United States History, or concurrent enrollment.

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.
**This class is not available to students entering high school during the 2026-2027 school year and beyond.*

DC Economics (ECON 2301)

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

AP or AP/GT Macroeconomics

Course Numbers:
0305A | A3310200
GT Course Numbers:
SS.G0305A | A3310200
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: United States History Studies since Reconstruction or AP United States History, or concurrent enrollment.

AP Macroeconomics is an introductory college-level macroeconomics course. Students cultivate their understanding of the principles that apply to an economic system as a whole by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like economic measurements, markets, macroeconomic models, and macroeconomic policies. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

OnRamps Introduction to Economics (ECO 304K / ECON 2302)

Course Numbers:
SS.D3055OR | 03310300
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal and college approval; Algebra II recommended

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. Students must demonstrate their ability to do college-level work in order for the opportunity to earn college credit during the spring semester. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness OnRamps website for more details: www.nisdtx.org/onramps. UT Austin tuition for this course is paid to Northwest ISD. See the Advanced Placement, Dual Credit, and OnRamps section of this guide for details.

Personal Financial Literacy and Economics

Course Numbers:
SS.03355 | 03380083
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 2
Prerequisite: United States History Studies since Reconstruction or AP United States History, or concurrent enrollment.

The Personal Financial Literacy and Economics Course emphasizes the economic way of thinking, which serves as a framework for the personal financial decision-making opportunities introduced in the course. Students will demonstrate the ability to anticipate and address financial challenges as these challenges occur over their lifetime. In addition, students are introduced to common economic and personal financial planning terms and concepts. As a result of learning objective concepts and integrating subjective information, students gain the ability to lead productive and financially self-sufficient lives. This course does not meet NCAA eligibility for student-athletes. For more information visit eligibilitycenter.org.
**This class is a graduation requirement for students entering high school during the 2026-2027 school year and beyond.*

Social Studies Electives

AP European History

Course Numbers: 0309A | A3340200
Credits: 1
Grade Placement: 11-12
Semesters: 2
Weighted GPA: Level 4
Prerequisite: It is recommended to have credit for World Geography, Honors World Geography, or AP Human Geography and/or World History or AP World History.

AP European History is an introductory college- level European history course. Students cultivate their understanding of European history through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like interaction of Europe and the world; economic and commercial developments; cultural and intellectual developments; states and other institutions of power; social organization and development; national and European identity; and technological and scientific innovation. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

Psychology

Course Numbers: 0314 | 03350100
Credits: .5
Grade Placement: 10-12
Semesters: 1
Weighted GPA: Level 2
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.

AP Psychology

Course Numbers: 0326A | A3350100
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: None

AP Psychology is an introductory college-level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. AP Psychology and Social Studies/Advanced Studies and Research Methods must be taken in consecutive semesters in the same school year.

DC Psychology (PSYC 2301)

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

Social Studies/Advanced Studies and Research Methods

Course Numbers:
0327A | 03380001
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: None

This course requires students to conduct advanced research on a selected topic in psychology using qualitative and quantitative methods of inquiry. The district expectation is that the student will take the appropriate AP exam. AP Psychology and Social Studies/Advanced Studies and Research Methods must be taken in consecutive semesters in the same school year.

Sociology

Course Numbers:
0315 | 03370100
Credits: .5
Grade Placement: 10-12
Semesters: 1
Weighted GPA: Level 2
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.

DC Sociology (SOCI 1301)

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

Personal Financial Literacy

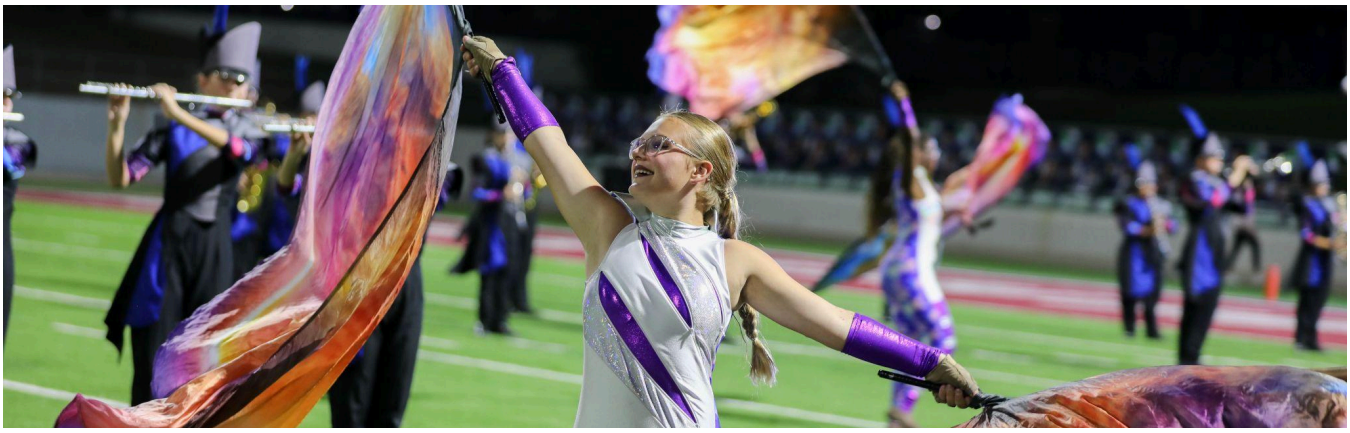
Course Numbers:
0351 | 03380082
Credits: .5
Grade Placement: 10-12
Semesters: 1
Weighted GPA: Level 2
Prerequisite: None

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. Students will apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and postsecondary education and training.

DC Texas Government (GOVT 2306) for Special Topics in Social Studies

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

Fine Arts



Physical Education Substitutions - Several courses that include physical activities may be substituted for the one required unit of PE. These courses are Athletics, Drill Team, Cheerleading, Dance I and/or Marching Band, Technical Theatre II and Musical Theatre I. See specific course for further information.

Art

Art I

Course Numbers:
0411 | 03500100
Credits: 1 Fine Art
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. This course may require an Art fee.

DC Art Appreciation (ARTS 1301) for Art I, Appreciation

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

Art II, Drawing I (2D Drawing/Painting/Mixed Media)

Course Numbers:
0412 | 03500500
Credits: 1 Fine Art
Grade Placement: 9-12
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. This course may require an Art fee.

Art II, Ceramics I (3D Ceramics/Sculpture)

Course Numbers:
0420 | 03500900
Credits: 1 Fine Art
Grade Placement: 9-12
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 may require an Art fee.

Art III, Drawing II (2D Design/Drawing/Painting/Mixed Media)

Course Numbers:
0414 | 03501300
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Prerequisite: Art II, Drawing I

In this course students will demonstrate their abilities to work on a wide variety of drawing/design problems. This course may require an Art fee.

Art III, Ceramics II (3D Design/Ceramics/Sculpture)

Course Numbers:
0417 | 03501800
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Prerequisite: Art II, Ceramics 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 may require an Art fee.

Art IV, Drawing III (2D Design/Drawing/Painting/Mixed Media)

Course Numbers:
FA.0776 | 03502300
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Art III, Drawing II

This course is a continuation of the use of the elements and principles of design. Students will demonstrate advanced abilities through work in drawing, painting, mixed media, and creative expression. This course may require an Art fee.

Art IV, Ceramics III (3D Design/Ceramics/Sculpture)

Course Numbers:
FA.0777 | 03502700
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Art III, Ceramics II

This course is a continuation of the use of the elements and principles of design in three dimensional issues. Students will be provided an advanced opportunity to work in ceramics, sculpture, and three dimensional mixed media. This course may require an Art fee.

AP Studio Art: 2D Design (AP 2-D Art and Design)

Course Numbers:
0413A | A3500400
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite: Art II: 2D Drawing/ Painting/Mixed Media

AP 2-D Art and Design is an introductory college- level two-dimensional design course. Students refine and apply 2-D skills to ideas they develop throughout the course. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. This course may require an Art fee.

AP Studio Art: Drawing (AP Drawing)

Course Numbers:
0415A | A3500300
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite: Art II: 2D Drawing/ Painting/Mixed Media

AP Drawing is an introductory college-level drawing course. Students refine and apply drawing skills to ideas they develop throughout the course. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. This course may require an Art fee.

AP Studio Art: 3D Design (AP 3-D Art and Design)

Course Numbers:
0418A | A3500500
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite: Art II: 3D Ceramics/ Sculpture

AP 3-D Art and Design is an introductory college- level three-dimensional design course. Students refine and apply 3-D skills to ideas they develop throughout the course. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. This course may require an Art fee.

AP Art History

Course Numbers:
0416A | A3500100
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite: Art II: 2D Drawing/ Painting/Mixed Media or Art II: 3D Ceramics/ Sculpture

AP Art History is an introductory college-level art history course. Students cultivate their understanding of art history through analyzing works of art and placing them in historical context as they explore concepts like culture and cultural interactions, theories and interpretations of art, the impact of materials, processes, and techniques on art and art making, and understanding purpose and audience in art historical analysis. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

Floral Design I

Course Numbers:
0827 | 13001800
Credits: 1
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Certification: Texas State Florist's Association Floral Skills Knowledge Based Certification, Texas State Floral Association Student Certification Floral Design Level I

This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. This course satisfies the graduation requirement for Fine Arts. This course will equip students to take the Texas State Florist's Association Floral Skills Knowledge Based Certification and the Texas State Floral Association Student Certification Floral Design Level I.

Band

Band I, II, III and IV

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 requires full participation in marching band, summer band camp, early morning and evening rehearsals, and extracurricular performances (football games, marching contests, parades, etc.). Students' grades are based on musical performance on their instrument. UIL also requires a physical prior to participation in marching band.

Band I

Course Numbers: 0421 | 03150100
Credits: 1 Fine Art and .5 Physical Education
Grade Placement: 9-12
Semesters: 2
Prerequisite: Previous band experience required; audition required for class placement

Students receive .5 Physical Education credit (fall semester only), and 1 Fine Arts credit. The Physical Education credit will be awarded on a Pass/Fail basis.

Band II

Course Numbers: 0422 | 03150200
Credits: 1 Fine Art and .5 Physical Education
Grade Placement: 10-12
Semesters: 2
Prerequisite: Band I; audition required for class placement

Students receive .5 Physical Education credit (fall semester only), and 1 Fine Arts credit. The Physical Education credit will be awarded on a Pass/Fail basis.

Band III

Course Numbers: 0423 | 03150300
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Band II; audition required for class placement

Band IV

Course Numbers: 0424 | 03150400
Credits: 1 Fine Art
Grade Placement: 12
Semesters: 2
Prerequisite: Band III; audition required for class placement

Jazz Band I, II, III and IV

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.

Jazz Ensemble I (Jazz Band I)

Course Numbers: 0431 | 03151300
Credits: 1 Fine Art
Grade Placement: 9-12
Semesters: 2
Prerequisite: An audition and concurrent enrollment in band or orchestra required (exceptions to this requirement are only made for students who play electric bass, guitar or piano).

Jazz Ensemble II (Jazz Band II)

Course Numbers: 0432 | 03151400
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Prerequisite: Jazz Band I and concurrent enrollment in band or orchestra required (exceptions to this requirement are only made for students who play electric bass, guitar or piano).

Jazz Ensemble III (Jazz Band III)

Course Numbers: 0433 | 03151500
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Jazz Band II and concurrent enrollment in band or orchestra required (exceptions to this requirement are only made for students who play electric bass, guitar or piano).

Jazz Ensemble IV (Jazz Band IV)

Course Numbers: 0434 | 03151600
Credits: 1 Fine Art
Grade Placement: 12
Semesters: 2
Prerequisite: Jazz Band III and concurrent enrollment in band or orchestra required (exceptions to this requirement are only made for students who play electric bass, guitar or piano).

Instrumental Ensemble I, II, III and IV

Through large group, small group, and individual instruction, students are taught instrumental technique through the performance of a variety of instrumental literature. Students will perform at concerts, solo and ensemble contests, as well as community events.

Instrumental Ensemble I

Course Numbers: 0465 | 03151700
Credits: 1 Fine Art
Grade Placement: 9-12
Semesters: 2
Prerequisite: An audition and concurrent enrollment in band or orchestra required.

Instrumental Ensemble II

Course Numbers: 0466 | 03151800
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Prerequisite: Instrumental Ensemble I and concurrent enrollment in band or orchestra required.

Instrumental Ensemble III

Course Numbers: 0467 | 03151900
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Instrumental Ensemble II and concurrent enrollment in band or orchestra required.

Instrumental Ensemble IV

Course Numbers: 0468 | 03152000
Credits: 1 Fine Art
Grade Placement: 12
Semesters: 2
Prerequisite: Instrumental Ensemble III and concurrent enrollment in band or orchestra required.

AP Music Theory

Course Numbers:
0460A | A3150200
Credits: 1 Fine Art
Grade Placement: 9-12
Semesters: 2
Prerequisite: Students must be able to read and write basic music notation and have basic skills in voice or instrument. Must be taken concurrently with a band, choir or orchestra class.

AP Music Theory is an introductory college-level music theory course. Students cultivate their understanding of music theory through analyzing performed and notated music as they explore concepts like pitch, rhythm, form, and musical design. Learn more about this course on the College Board website. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

Color Guard I, II, III and IV

Students are taught the fundamentals of dance, flags, and rifles in preparation for performance with the marching band. Students enrolling in this class must be available outside of school rehearsals, all marching performances, football games and competitions as scheduled by the band department.

Band I (Color Guard I)

Course Numbers: 04351 | 03150100
Credits: .5 Fine Art and .5 Physical Education
Grade Placement: 9-12
Semesters: 1 (fall only)
Prerequisite: Audition required

Students receive .5 Physical Education credit and .5 Fine Arts credit. The Physical Education credit will be awarded on a Pass/Fail basis.

Band II (Color Guard II)

Course Numbers: 04361 | 03150200
Credits: .5 Fine Art and .5 Physical Education
Grade Placement: 10-12
Semesters: 1 (fall only)
Prerequisite: Color Guard I

Students receive .5 Physical Education credit and .5 Fine Arts credit. The Physical Education credit will be awarded on a Pass/Fail basis.

Band III (Color Guard III)

Course Numbers: 04371 | 03150300
Credits: .5 Fine Art
Grade Placement: 11-12
Semesters: 1 (fall only)
Prerequisite: Color Guard II

Band IV (Color Guard IV)

Course Numbers: 04381 | 03150400
Credits: .5 Fine Art
Grade Placement: 12
Semesters: 1 (fall only)
Prerequisite: Color Guard III

Winter Guard I, II, III and IV

Students are taught the fundamentals of dance, flags, and rifles 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.

Band I (Winter Guard I)

Course Numbers: 04352 | 03150100
Credits: .5 Fine Art
Grade Placement: 9-12
Semesters: 1 (spring only)
Prerequisite: Audition required

Band II (Winter Guard II)

Course Numbers: 04362 | 03150200
Credits: .5 Fine Art
Grade Placement: 10-12
Semesters: 1 (spring only)
Prerequisite: Winter Guard I

Band III (Winter Guard III)

Course Numbers: 04372 | 03150300
Credits: .5 Fine Art
Grade Placement: 11-12
Semesters: 1 (spring only)
Prerequisite: Winter Guard II

Band IV (Winter Guard IV)

Course Numbers: 04382 | 03150400
Credits: .5 Fine Art
Grade Placement: 12
Semesters: 1 (spring only)
Prerequisite: Winter Guard III

Choir

Choir I, II, III and IV

Choir is a performance-based course, in which members will study vocal technique, music literacy, and musicianship. The variety of music performed will provide students' knowledge of music in a historical and cultural context. Students are required to participate in evening concerts throughout the school year and will have additional opportunities for performance in small groups and as soloists. Students are graded on their musicianship and performance. This course is divided into beginning, intermediate, and advanced choirs, allowing for differentiation in performance expectations.

Choir I

Course Numbers: 0441 | 03150900
Credits: 1 Fine Art
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

Choir II

Course Numbers: 0442 | 03151000
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Prerequisite: Choir I; audition required for class placement

Choir III

Course Numbers: 0443 | 03151100
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Choir II; audition required for class placement

Choir IV

Course Numbers: 0444 | 03151200
Credits: 1 Fine Art
Grade Placement: 12
Semesters: 2
Prerequisite: Choir III; audition required for class placement

Vocal Ensemble I, II, III and IV

Vocal Ensemble is an advanced level, performance-based course that reinforces the TEKS for choir. Through large group, small group, and individual instruction, students are taught choral technique through the performance of a variety of advanced choral literature. Students will perform at concerts, individual competitions, solo and ensemble contests, as well as community events. Students enrolling in this class must be available for after school rehearsals, performances, competitions, and events.

Vocal Ensemble I

Course Numbers: 0461 | 03152100
Credits: 1 Fine Art
Grade Placement: 9-12
Semesters: 2
Prerequisite: An audition and concurrent enrollment in choir required.

Vocal Ensemble II

Course Numbers: 0462 | 03152200
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Prerequisite: Vocal Ensemble I and concurrent enrollment in choir required.

Vocal Ensemble III

Course Numbers: 0463 | 03152300
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Vocal Ensemble II and concurrent enrollment in choir required.

Vocal Ensemble IV

Course Numbers: 0464 | 03152400
Credits: 1 Fine Art
Grade Placement: 12
Semesters: 2
Prerequisite: Vocal Ensemble III and concurrent enrollment in choir required.

Dance

Dance I, II, III and IV

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

Dance I, Principles of Dance I

Course Numbers: 0711 | 03830100
Credits: 1 Fine Art and 1 Physical Education
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

Students will receive 1 Fine Arts credit and 1 Physical Education credit if the student's circumstances allow. The Physical Education credit will be awarded on a Pass/Fail basis, and will only be given to those who are not already earning a Physical Education credit in athletics or in any other class that earns a Physical Education/Lifetime Fitness and Wellness Pursuits credit.

Dance II, Principles of Dance II

Course Numbers: 0712 | 03830200
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Prerequisite: Dance I

Dance III, Principles of Dance III

Course Numbers: 0713 | 03830300
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Dance II

Dance IV, Principles of Dance IV

Course Numbers: 0714 | 03830400
Credits: 1 Fine Art
Grade Placement: 12
Semesters: 2
Prerequisite: Dance III

Drill Team I, II, III and IV

This is a select group of students who perform at community and athletic events demonstrating their dance techniques.

Dance I, Performance Ensemble I (Drill Team I)

Course Numbers: 0775 | 03833300
Credits: 1 Fine Art and .5 Physical Education
Grade Placement: 9-12
Semesters: 2
Prerequisite: Audition and director approval required.

Students receive .5 Physical Education credit and 1 Fine Arts credit. The Physical Education credit will be awarded on a Pass/Fail basis for the fall semester and is given for outside of school participation.

Dance II, Performance Ensemble II (Drill Team II)

Course Numbers: 0716 | 03833400
Credits: 1 Fine Art and .5 Physical Education
Grade Placement: 10-12
Semesters: 2
Prerequisite: Drill Team I, audition and director approval required.

Students receive .5 Physical Education credit and 1 Fine Arts credit. The Physical Education credit will be awarded on a Pass/Fail basis for the fall semester and is given for outside of school participation.

Dance III, Performance Ensemble III (Drill Team III)

Course Numbers: FA.0779 | 03833500
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Drill Team II, audition and director approval required.

Dance IV, Performance Ensemble IV (Drill Team IV)

Course Numbers: FA.0780 | 03833600
Credits: 1 Fine Art
Grade Placement: 12
Semesters: 2
Prerequisite: Drill Team III, audition and director approval required.

Theatre

Theatre Arts I, II, III and IV

These courses are 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 used to improve vocal ability and training in the use of dialects. Students have the opportunity to perform in this course.

Theatre Arts I

Course Numbers: 0401 | 03250100
Credits: 1 Fine Art
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

Theatre Arts II

Course Numbers: 0402 | 03250200
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Prerequisite: Theatre Arts I

Theatre Arts III

Course Numbers: 0403 | 03250300
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Theatre Arts II

Theatre Arts IV

Course Numbers: 0404 | 03250400
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Theatre Arts III

Technical Theatre I, II, III and IV

Technical Theatre I, II, III and IV are advanced level courses. They are practical and academic courses that focus on direct support of the productions. Students are expected to participate in all Theatre Department productions.

Technical Theatre I

Course Numbers: 0405 | 03250500
Credits: 1 Fine Art
Grade Placement: 9-12
Semesters: 2
Prerequisite: Director approval required.

Technical Theatre II

Fine Art Course Numbers: 0406 | 03250600
PE Course Numbers: PE.0406 | 03250600
Credits: 1 Fine Art or 1 Physical Education (Students electing to use this course as their required PE credit will have the course coded with a "7" on the transcript to fulfill that requirement.)
Grade Placement: 10-12
Semesters: 2
Prerequisite: Director approval required.
Recommended prerequisite: Technical Theatre I

Technical Theatre III

Course Numbers: 0407 | 03251100
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Technical Theatre II and director approval required.

Technical Theatre IV

Course Numbers: 04071 | 03251200
Credits: 1 Fine Art
Grade Placement: 12
Semesters: 2
Prerequisite: Technical Theatre III and director approval required.

Theatre Production I, II, III and IV

Theatre Production I, II, III and IV are advanced level courses. They are practical and academic courses that focus on direct support of the productions. Students are expected to participate in all Theatre Department productions.

Theatre Production I

Course Numbers: 0408 | 03250700
Credits: 1 Fine Art
Grade Placement: 9-12
Semesters: 2
Prerequisite: Director approval required.

Theatre Production II

Course Numbers: 0409 | 03250800
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Prerequisite: Theatre Production I and director approval required.

Theatre Production III

Course Numbers: 0410 | 03250900
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Theatre Production II and director approval required.

Theatre Production IV

Course Numbers: 04102 | 03251000
Credits: 1 Fine Art
Grade Placement: 12
Semesters: 2
Prerequisite: Theatre Production III and director approval required.

Musical Theatre

This course will enable students to study and perform the varied styles of musical theatre with special attention to the principles of stage movement, stage vocal technique, stage choreography, acting, characterization, and other aspects of musical production. The course will also enhance and cultivate the creative gifts of each student while encouraging a sense of self-confidence. Musical Theater I may be taken for fine art or PE credit.

Musical Theatre I

Fine Art Course Numbers: FA.0420 | 03251900
PE Course Numbers: PE.0420 | 03251900
Credits: 1 Fine Art or 1 Physical Education (Students electing to use this course as their required PE credit will have the course coded with a "7" on the transcript to fulfill that requirement.)
Grade Placement: 10-12
Semesters: 2
Prerequisite: Theatre I or Theatre Production I and audition.

Musical Theatre II

Course Numbers: FA.0430 | 03252000
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Musical Theatre I and audition

Musical Theatre III

Course Numbers: FA.0440 | 03252100
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Musical Theatre II and audition

Musical Theatre IV

Course Numbers: FA.0450 | 03252200
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Musical Theatre III and audition

Orchestra

Orchestra I, II, III and IV

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. Students participate in UIL activities and local concerts.

Orchestra I

An audition is required for class placement.
Course Numbers: 0425 | 03150500
Credits: 1 Fine Art
Grade Placement: 9-12
Semesters: 2
Prerequisite: Previous orchestra experience required; audition required for class placement

Orchestra II

Course Numbers: 0426 | 03150600
Credits: 1 Fine Art
Grade Placement: 10-12
Semesters: 2
Prerequisite: Orchestra I; audition required for class placement

Orchestra III

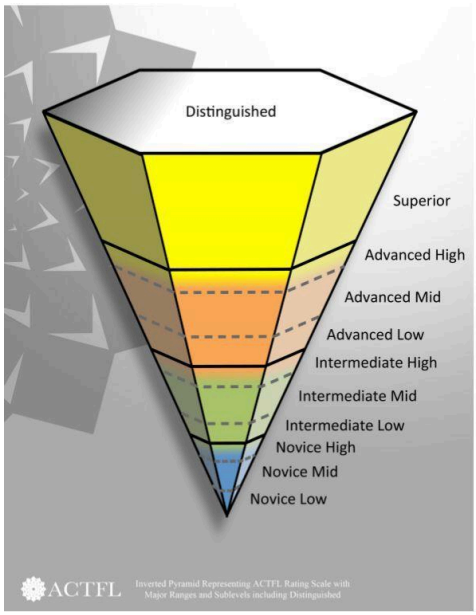
Course Numbers: 0427 | 03150700
Credits: 1 Fine Art
Grade Placement: 11-12
Semesters: 2
Prerequisite: Orchestra II; audition required for class placement

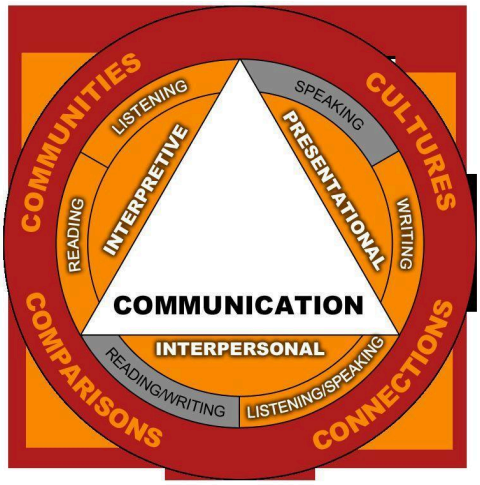
Orchestra IV

Course Numbers: 0428 | 03150800
Credits: 1 Fine Art
Grade Placement: 12
Semesters: 2
Prerequisite: Orchestra III; audition required for class placement

Languages Other than English

Spanish
Spanish I & Spanish I Honors Spanish II & Spanish II Honors Spanish I-II for Spanish Speakers Spanish III Honors Spanish IV AP Language and Culture Spanish V AP Literature
French
French I & French I Honors French II & French II Honors French III Honors French IV AP
German
German I & German I Honors German II & German II Honors German III Honors German IV AP
American Sign Language*
American Sign Language I American Sign Language II Honors American Sign Language III Honors American Sign Language IV
Computer Science*
Honors Computer Science I Honors Computer Science II Honors Computer Science III





Communication is the overarching goal of world languages instruction.

Northwest ISD offers the AVANT Language Proficiency Test as a credit-by-examination option for students with experience in languages other than English. If students have prior experience with a language other than English, we encourage the students to register and take the test before the school year starts. This will help determine the best placement level in a language other than English. For more details, please visit the district's CBE webpage.

*When considering a language other than English (LOTE) for college admission, please confirm your LOTE choice with your potential college/university. Not all colleges/universities accept American Sign Language or Computer Science to fulfill world language requirements.

Spanish I

Course Numbers:
0601 | 03440100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

Spanish I is an introductory course. Students will explore the language and culture of Spanish speaking countries by speaking, writing, listening, and reading in real-world situations. Students will use Spanish in the interpersonal, interpretive, and presentational communication modes. Students will express meaning in highly predictable contexts through the use of memorized and recalled words and phrases. Students will understand cognates, borrowed words, high-frequency words, and highly contextualized words and phrases with repetition. Students will gain an understanding of sentence-length information within highly contextualized situations and sources. Students in Spanish I are expected to reach a novice mid to novice high level of language proficiency at completion of study.

Spanish I Honors

Course Numbers:
LO.0601H | 03440100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: None

Spanish I Honors deepens and exceeds the traditional Spanish I level course by including a more in-depth and faster pace study of the Spanish language. Students will explore the language and culture of Spanish speaking countries by speaking, writing, listening, and reading in real-world situations. Students will use Spanish in the interpersonal, interpretive, and presentational communication modes. Students will express meaning in highly predictable contexts through the use of memorized and recalled words and phrases. Students will understand cognates, borrowed words, high-frequency words, and highly contextualized words and phrases with repetition. Students will gain an understanding of sentence-length information within highly contextualized situations and sources. Students in Spanish I Honors are expected to reach a novice mid to novice high level of language proficiency at completion of study.

Spanish II

Course Numbers:
0602 | 03440200
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Spanish I or Spanish I Honors

Spanish II is a continuation of exploring the language and culture of Spanish speaking countries. In this course, students will express meaning in straightforward and personal contexts by combining and recombining what they know, what they read, and what they hear in short statements and sentences. They are able to understand information from simple connected statements in oral or written sources. Students will communicate in presentations, interpersonally, and interpretively. Students in Spanish II are expected to reach a novice high to intermediate low level of language proficiency at completion of study.

Spanish II Honors

Course Numbers:
LO.0602H | 03440200
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: Spanish I or Spanish I Honors

Spanish II Honors exceeds the traditional Spanish II level course by including a more in-depth and faster pace study of the language, Spanish history, geography, culture, and literature. A focus on student's oral proficiency level is developed through age-level and culturally authentic resources to enable students to participate in significantly longer dialogues about familiar situations, express and support opinion or preferences using expanded vocabulary, through short statements and complex sentences in written and oral responses. Authentic materials will be read, and longer, directed compositions will be written. This course is enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students in Spanish II Honors are expected to reach a novice high to intermediate low level of language proficiency at completion of study.

Spanish III Honors

Course Numbers:
LO.0603H | 03440300
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: Spanish II or Spanish II Honors

Spanish III Honors develops students' proficiency in the Spanish language and prepares students for the AP Spanish Language & Culture exam in 12th grade. Students in this course will express meaning in straightforward and personal contexts by easily combining and recombining what they know, what they read, and what they hear in statements, and a mixture of sentences and strings of sentences. They are able to understand information from connected statements in oral or written sources. Students in Spanish III Honors are expected to reach an intermediate low to intermediate mid level of language proficiency at completion of study. Upon successful completion of this course, students are expected to continue to Spanish IV AP Language And Culture.

Spanish IV AP Language and Culture

Course Numbers:
0605A | A3440100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Spanish III Honors

AP Spanish Language and Culture is equivalent to an intermediate level college course in Spanish. Students cultivate their understanding of Spanish language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges. Learn more about this course on the College Board website. The district expectation is that the student will take the AP Spanish Language and Culture exam.



Performance Acknowledgment in Bilingualism and Biliteracy

Spanish V AP Literature

Course Numbers: LOTE.A060 | A3440200
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: Spanish IV AP Language and Culture

AP Spanish Literature is equivalent to a college level introductory survey course of literature written in Spanish. Students continue to develop their interpretive, interpersonal, and presentational skills in Spanish language as well as critical reading and analytical writing as they explore short stories, novels, plays, essays, and poetry from Spain, Latin America, and U.S. Hispanic authors along with other non-required texts. Learn more about this course on the College Board website. The district expectation is that the student will take the AP Spanish Literature and Culture exam.

Spanish I-II for Spanish Speakers

Course Numbers I (Fall): 0620 | 03440110
Course Numbers II (Spring): 0620 | 03440220
Credits: 2
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Spanish oral and written fluency - there is a placement test required.

Spanish I-II for Spanish Speakers is specifically designed for students who demonstrate oral language proficiency in the Spanish language. This course provides opportunities for improvement in Spanish literacy in reading and writing through the study of complex grammatical structures, vocabulary, Hispanic culture, and cultural pride and awareness. This course is enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students will have the opportunity to progress to Spanish III Honors the following year and continue to advanced levels of language study, if they wish. This course is equivalent to Spanish I and II credit. Students in Spanish I-II for Spanish Speakers are expected to reach a novice high to intermediate low of language proficiency at completion of study.

French I

Course Numbers: 0607 | 03410100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

French I introduces students to the French language and francophone culture. Communication focuses on using the four basic language skills of listening, speaking, reading, and writing so students have ample opportunities to experience and practice French in meaningful ways to hold brief conversations. A student's proficiency level is developed through age-level appropriate and culturally authentic resources, high frequency vocabulary, and language structures to negotiate meaning through spoken and written text, and participate and respond to everyday life situations. This course is enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students in French I are expected to reach a novice mid to novice high level of language proficiency at completion of study.
Note: This course may be offered as a NISD Distance Learning course where students will use technology such as Chromebooks and Zoom to connect with their teacher and classmates digitally on a daily basis.

French I Honors

Course Numbers: LO.0607H | 03410100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: None

French I Honors deepens and exceeds the traditional French I level course by including a more in-depth and faster pace study of the French language. French I Honors introduces students to the French language and francophone culture. Communication focuses on using the four basic language skills of listening, speaking, reading, and writing so students have ample opportunities to experience and practice French in meaningful ways to hold brief conversations. A student's proficiency level is developed through age-level appropriate and culturally authentic resources, high frequency vocabulary, and language structures to negotiate meaning through spoken and written text, and participate and respond to everyday life situations. This course is enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students in French I are expected to reach a novice mid to novice high level of language proficiency at completion of study. Note: This course may be offered as a NISD Distance Learning course where students will use technology such as Chromebooks and Zoom to connect with their teacher and classmates digitally on a daily basis.

French II

Course Numbers: 0608 | 03410200
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: French I or French I Honors

French II reviews what was learned in French I and continues to build the skills across all four language skills: listening, speaking, reading, and writing, with emphasis on the ability to communicate orally. A student's proficiency level is developed through age-level and culturally authentic resources to enable students to participate in dialogues about familiar situations, express and support opinion or preferences using expanded vocabulary, through short statements and complex sentences in written and oral responses. This course is enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students in French II are expected to reach a novice high to intermediate low level of language proficiency at completion of study.

French II Honors

Course Numbers: LO.0608H | 03410200
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: French I or French I Honors

French II Honors exceeds the traditional French II level course by including more in-depth and faster pace study of the language, francophone history, geography, culture, and literature. A focus on student's oral proficiency level is developed through age-level and culturally authentic resources to enable students to participate in significantly longer dialogues about familiar situations, express and support opinion or preferences using expanded vocabulary, through short statements and complex sentences in written and oral responses. Authentic materials will be read, and longer, directed compositions will be written. This course is enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students in French II Honors are expected to reach a novice high to intermediate low level of language proficiency at completion of study.

French III Honors

Course Numbers: LO.0609H | 03410300
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: French II or French II Honors

French III Honors presents a wider variety and significantly more complex skills to help the student maintain audiovisual abilities, increase vocabulary, improve writing skills, and sustain dialogue under timed conditions. A student's proficiency level is developed through language structures, advanced vocabulary, and cultural aspects that are enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students in French III Honors are expected to reach an intermediate low to intermediate mid level of language proficiency at completion of study. Upon successful completion of this course, students are expected to continue to French IV AP Language And Culture.

French IV AP Language and Culture

Course Numbers: 0610A | A3410100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: French III Honors

AP French Language and Culture is equivalent to an intermediate level college course in French. Students cultivate their understanding of French language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges. Learn more about this course on the College Board website. The district expectation is that the student will take the AP French Language and Culture exam.



Performance Acknowledgment in Bilingualism and Biliteracy

German I

Course Numbers: 0614 | 03420100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

German I introduces students to the German language and German culture. Communication focuses on using the four basic language skills of listening, speaking, reading, and writing so students have ample opportunities to experience and practice German in meaningful ways to hold brief conversations. A student's proficiency level is developed through age-level appropriate and culturally authentic resources, high frequency vocabulary, and language structures to negotiate meaning through spoken and written text, and participate and respond to everyday life situations using a mixture of words and phrases and simple sentences. This course is enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students in German I are expected to reach a novice mid to novice high level of language proficiency at completion of study. Note: This course may be offered as a NISD Distance Learning course where students will use technology such as Chromebooks and Zoom to connect with their teacher and classmates digitally on a daily basis.

German I Honors

Course Numbers: LO.0614H | 03420100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: None

German I Honors deepens and exceeds the traditional German I level course by including a more in-depth and faster pace study of the German language. German I Honors introduces students to the German language and German culture. Communication focuses on using the four basic language skills of listening, speaking, reading, and writing so students have ample opportunities to experience and practice German in meaningful ways to hold brief conversations. A student's proficiency level is developed through age-level appropriate and culturally authentic resources, high frequency vocabulary, and language structures to negotiate meaning through spoken and written text, and participate and respond to everyday life situations using a mixture of words and phrases and simple sentences. This course is enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students in German I Honors are expected to reach a novice mid to novice high level of language proficiency at completion of study. Note: This course may be offered as a NISD Distance Learning course where students will use technology such as Chromebooks and Zoom to connect with their teacher and classmates digitally on a daily basis.

German II

Course Numbers: 0615 | 03420200
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: German I or German I Honors

German II reviews what was learned in German I and continues to build the skills across all four language skills: listening, speaking, reading, and writing, with emphasis on the ability to communicate orally. A student's proficiency level is developed through age-level and culturally authentic resources to enable students to participate in dialogues about familiar situations, express and support opinion or preferences using expanded vocabulary, through short statements and complex sentences in written and oral responses. This course is enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students in German II are expected to reach a novice high to intermediate low level of language proficiency at completion of study.

German II Honors

Course Numbers: LO.0615H | 03420200
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: German I or German I Honors

German II Honors exceeds the traditional German II level course by including more in-depth and faster pace study of the language, German history, geography, culture, and literature. A focus on student's oral proficiency level is developed through age-level and culturally authentic resources to enable students to participate in significantly longer dialogues about familiar situations, express and support opinion or preferences using expanded vocabulary, through short statements and complex sentences in written and oral responses. Authentic materials will be read, and longer, directed compositions will be written. This course is enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students in German II Honors are expected to reach a novice high to intermediate low level of language proficiency at completion of study.

German III Honors

Course Numbers: LO.0616H | 03420300
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: German II or German II Honors

German III Honors presents a wider variety and significantly more complex skills to help the student maintain audiovisual abilities, increase vocabulary, improve writing skills, and sustain dialogue under timed conditions. A student's proficiency level is developed through language structures, advanced vocabulary, and cultural aspects that are enhanced with a variety of print, digital, audio, and audiovisual materials to support language development. Students in German III Pre-AP are expected to reach an intermediate low to intermediate mid level of language proficiency at completion of study. Upon successful completion of this course, students are expected to continue to German IV AP Language And Culture.

German IV AP Language and Culture

Course Numbers:
LO.0617AP | A3420100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 4
Prerequisite: German III Honors

AP German Language and Culture is equivalent to an intermediate level college course in German. Students cultivate their understanding of German language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges. Learn more about this course on the College Board website. The district expectation is that the student will take the AP German Language and Culture exam.



Performance Acknowledgment in Bilingualism and Biliteracy

American Sign Language I*

Course Numbers:
0660 | 03980100
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: None

American Sign Language I emphasizes all areas of language study: receptive, expressive, comprehension, culture and grammar. Student awareness and appreciation of a new culture and its history are developed. Sentence structure is developed and expounded upon from simple to complex sentence lengths. Students are expected to perform signed projects with each unit covered.

American Sign Language II*

Course Numbers:
0661 | 03980200
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: ASL I

This course is designed to continue development of ASL skills with primary focus on refining the use of basic ASL sentence types. Pronominalization (the process of using pronouns in Diexis), classifiers, spatial referencing, pluralization (using classifiers), and temporal and distributional aspects are introduced. Students will learn routine communicative functions of the language: asking, requesting, providing clarification, giving and asking for directions. Information about the Deaf Community and Deaf Culture will be included. This course applies knowledge of ASL grammar and vocabulary to the description of increasingly complex constructs, processes and situations. Students incorporate multiple character role shifting into medium-length stories, narratives and the discussion of hypothetical issues. Information on cultural values and attitudes as they relate to the Deaf Community is also examined.

Honors American Sign Language III*

Course Numbers: LO.0662H | 03980300
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: ASL II

This course is designed to continue the development of ASL skills with emphasis on improvements in speed and fluency along with reinforcement of appropriate grammar usage and conversation skills. In this course, students will participate in a variety of activities in order to: engage in direct signed communication with others without voice, demonstrate an understanding of receptively viewed communication, present to an audience, make comparisons of the American Deaf culture with their own, and use ASL to make connections to other subject areas and to acquire information.

Honors American Sign Language IV*

Course Numbers: LO.0663H | 03980400
Credits: 1
Grade Placement: See prerequisites
Semesters: 2
Weighted GPA: Level 3
Prerequisite: Honors ASL III

This is an advanced course designed to further enhance students' proficiency in American Sign Language. This course will continue to prepare students to interact with native signers in academic and professional settings, fostering both language mastery and cultural competence. This course emphasizes nuanced communication, complex grammatical structures, and increased fluency through diverse authentic materials and real-life scenarios. Students will explore advanced conversational topics, such as abstract ideas, current events, and personal viewpoints.

When considering a language other than English (LOTE) for college admission, please confirm your LOTE choice with your potential college/university. Not all colleges/universities accept American Sign Language or Computer Science to fulfill world language requirements.

Honors Computer Science I*

Course Numbers: CT.0849H | 03580200
Weighted GPA: Level 3 (Class of 2026 and beyond)
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite or concurrent enrollment : Algebra I

This course will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will understand Computer Science through the study of technology operations, systems and concepts using TechSmart Curriculum. Course studies include the coding language Python, analyzing and designing algorithms, and demonstrating proficiency in digital citizenship. Professional skills, like collaboration and communication, portfolio building are key elements. This course may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Honors Computer Science II*

Course Numbers:
CT.0859 | 03580300
Weighted GPA: Level 2
Course Numbers:
CT.0859H | 03580300
Weighted GPA: Level 3 (Class of 2026 and beyond)
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Algebra I, Honors Computer Science I

This course includes exploration into creating, modifying, and testing the codes, forms and scripts that allow computer applications to run. Students will use the programming language Python and TechSmart Curriculum to work both individually and collaboratively to solve problems. Course studies will include locating, analyzing, processing and organizing data, comparing operating systems, software applications, hardware platforms and programming languages. Certifications will be earned in Certified Entry Level Python Programmer (PCEP). This course may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Honors Computer Science III*

Course Numbers:
CT.0869H | 03580350
Credits: 1
Grade Placement: 11-12
Semesters: 2
Weighted GPA: Level 3
Required Prerequisite: Honors Computer Science II

Students will build on previous knowledge and skills in this advanced computer science course. Course studies include comparing and contrasting high-level programming languages, model ethical acquisition and use of digital information, developing algorithms to solve problems. Students will use the programming language, Python, and TechSmart Curriculum to work both individually and collaboratively to solve problems. Students will have the opportunity to earn the Certified Associate in Python Programming (PCAP) certification. This course may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

When considering a language other than English (LOTE) for college admission, please confirm your LOTE choice with your potential college/university. Not all colleges/universities accept American Sign Language or Computer Science to fulfill world language requirements.

Physical Education



Lifetime Fitness and Wellness Pursuits

Course Numbers:
PE.0707 | PES00051
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

The Lifetime Fitness and Wellness Pursuits course offers current approaches for the foundation of personal fitness, physical literacy, lifetime wellness, and healthy living. This course equips students to assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Personal fitness assessments encourage students to design fitness programs to meet their individual fitness goals and develop skills needed to achieve lifetime wellness.

Skill Based Lifetime Activities

Course Numbers:
PE.0703 | PES00056
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

The Skill-Based Lifetime Activities course offers students the opportunity to demonstrate mastery in basic sport skills, basic sport knowledge, and health and fitness principles. Students experience opportunities that promote physical literacy and lifetime wellness. Students participate in a minimum of one lifelong activity from each of the following five categories during the course. Those are: A) Target games (B) Striking and fielding (C) Fitness activities (D) Rhythmic activities and (E) Innovative games and activities with international significance.

Lifetime Recreation and Outdoor Pursuits

Course Numbers:
PE.0704 | PES00053
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

The Lifetime Recreation and Outdoor Pursuits class provides students opportunities to develop competency in recreational and outdoor activities such as disc golf, pickleball, badminton, orienteering, archery, etc. Students will participate in games that promote physical literacy and respect for nature as well as encourage students to select activities to be enjoyed for a lifetime.

Athletics



We encourage all students to participate in some of our athletic programs. Through participation in athletics, the student will become a more well-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, student holidays, 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 any given time in a game, some students may not make a team. If a student is going to participate in more than one sport, he/she should sign up for 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. All students must have an annual U.I.L. physical from a physician on file with the Athletic Office, along with all necessary signatures that can be found at the NISD athletic webpage prior to participation in any athletic contest, practice or try- out session. All athletes are expected to be enrolled and participate in an athletic period.

Physical Education Substitutions - Several courses that include physical activities may be substituted for the one required unit of PE. These courses are Athletics, Drill Team, Cheerleading, Dance I, Musical Theatre I, Technical Theatre II and/ or Marching Band. No more than FOUR units of credit in physical education may be applied toward state graduation requirements.

UIL rules specifically prohibit students from being enrolled in more than one physical education and/or athletic class; Exception: PE Class - Lifetime Recreation and Outdoor Pursuits; PE Substitute - Cheerleading, Drill Team, and Marching Band.

Sports Medicine I, II, and III

Course Numbers I: PE.5151 | N1150040
Course Numbers II: PE.5152 | N1150041
Course Numbers III: PE.5153 | N1150044
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: Sports Med I (Approved Application) Sports Med II (Must have Sports Med I) Sports Med III (Must have Sports Med II)

Sports Medicine 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 sport or setting. Student athletic trainers will be required to participate in all practice sessions and competitions before and after school as scheduled by the head athletic trainer. This course does not provide PE credit. This class requires after-school hours and travel to sporting events.

Baseball (Boys)

Course Numbers I: 5380 | PES00000
Course Numbers II: 5383 | PES00001
Course Numbers III: 5385 | PES00002
Course Numbers IV: 5386 | PES00003
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 January through June.

Basketball

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.

Basketball (Boys)

Course Numbers I: 5300 | PES00000
Course Numbers II: 5303 | PES00001
Course Numbers III: 5305 | PES00002
Course Numbers IV: 5306 | PES00003
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

Basketball (Girls)

Course Numbers I: 5100 | PES00000
Course Numbers II: 5103 | PES00001
Course Numbers III: 5105 | PES00002
Course Numbers IV: 5106 | PES00003
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

Cross Country (Boys and Girls)

Course Numbers I: 5140 | PES00000
Course Numbers II: 5143 | PES00001
Course Numbers III: 5145 | PES00002
Course Numbers IV: 5146 | PES00003
Credits: 1
Grade Placement: 9-12
Semesters: 2
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 through the first week in November.

Diving (Boys and Girls)

Course Numbers I: 5190 | PES00000
Course Numbers II: 5193 | PES00001
Course Numbers III: 5195 | PES00002
Course Numbers IV: 5196 | PES00003
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 the NISD Aquatic Center. NISD Transportation will provide bus service to and from the pool for Byron Nelson and Eaton High School only. The season runs from September through February.

Football (Boys)

Course Numbers I: 5370 | PES00000
Course Numbers II: 5373 | PES00001
Course Numbers III: 5375 | PES00002
Course Numbers IV: 5376 | PES00003
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

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

Golf (Boys and Girls)

Course Numbers I: 5130 | PES00000
Course Numbers II: 5133 | PES00001
Course Numbers III: 5135 | PES00002
Course Numbers IV: 5136 | PES00003
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. Students are required to arrange their own transportation to and from their designated course for practice. The fall season runs from September through October and the spring season is from January through May.

Soccer

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 November through April.

Soccer (Boys)

Course Numbers I: 5320 | PES00000
Course Numbers II: 5323 | PES00001
Course Numbers III: 5325 | PES00002
Course Numbers IV: 5326 | PES00003
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

Soccer (Girls)

Course Numbers I: 5120 | PES00000
Course Numbers II: 5123 | PES00001
Course Numbers III: 5125 | PES00002
Course Numbers IV: 5126 | PES00003
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

Softball (Girls)

Course Numbers I: 5180 | PES00000
Course Numbers II: 5183 | PES00001
Course Numbers III: 5185 | PES00002
Course Numbers IV: 5186 | PES00003
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 January through June.

Swimming (Boys and Girls)

Course Numbers I: 5110 | PES00000
Course Numbers II: 5113 | PES00001
Course Numbers III: 5115 | PES00002
Course Numbers IV: 5116 | PES00003
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 the NISD Aquatic Center. NISD Transportation will provide bus service to and from the pool for Byron Nelson and Eaton High School only. The season runs from September through February.

Tennis (Boys and Girls)

Course Numbers I: 5150 | PES00000
Course Numbers II: 5153 | PES00001
Course Numbers III: 5155 | PES00002
Course Numbers IV: 5156 | PES00003
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 through the first week in November. The spring competitive tennis season is from January through the first week in May.

Track (Boys and Girls)

Course Numbers I: 5340 | PES00000
Course Numbers II: 5343 | PES00001
Course Numbers III: 5345 | PES00002
Course Numbers IV: 5346 | PES00003
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. Students who participate in a team sport should not register for this course but may participate in the program. The season runs from February through May.

Volleyball (Girls)

Course Numbers I: 5170 | PES00000
Course Numbers II: 5173 | PES00001
Course Numbers III: 5175 | PES00002
Course Numbers IV: 5176 | PES00003
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 August through November.

Wrestling (Boys and Girls)

Course Numbers I: 5390 | PES00000
Course Numbers II: 5393 | PES00001
Course Numbers III: 5395 | PES00002
Course Numbers IV: 5396 | PES00003
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

Wrestling is practiced year-round outside of and during the school day. The class period is for those students who specialize in wrestling. Students who participate in a team sport should not register for this course but may participate in the program. The season runs from October through February.



National Collegiate Athletic Association (NCAA)

The National Collegiate Athletic Association (NCAA) is the governing body for college athletics. Students wishing to participate in any college sport must meet eligibility requirements, as defined in the NCAA Eligibility Center. Eligibility requirements depend on the Division and are based on the unweighted GPA in core classes, as compared to SAT/ACT scores.

NCAA Division I and II require 16 core courses

Division I

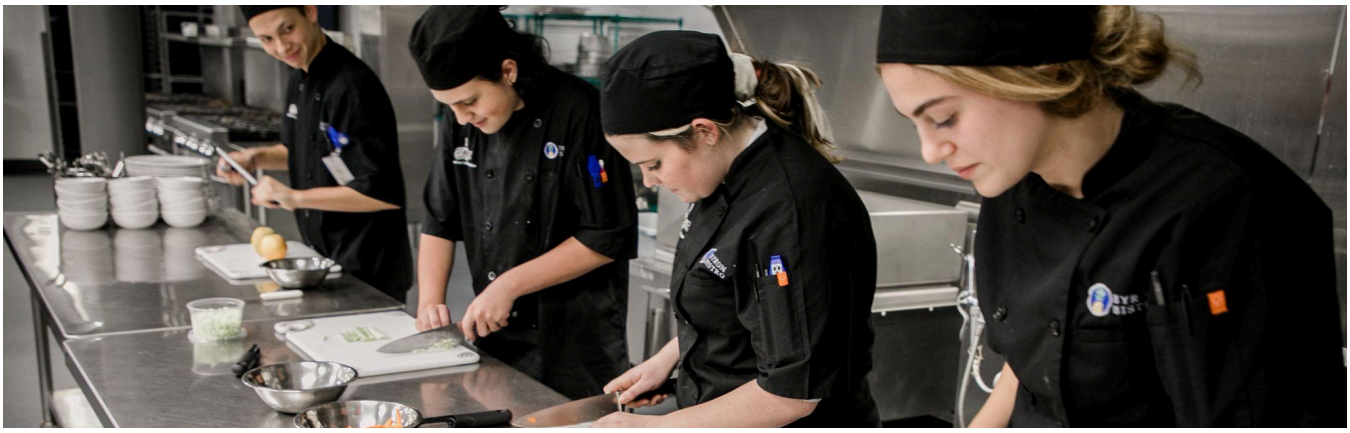
- 4 years of English.
- 3 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 1 year of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).
- Complete 10 core courses, including seven in English, math or natural/physical science, before the start of the seventh semester. Once students begin their seventh semester, they must have more than 10 core courses completed to be able to repeat or replace any of the 10 courses used in the preliminary academic certification.
- Earn a minimum 2.3 core-course GPA.
- In January 2023, NCAA Divisions I and II adopted legislation to remove standardized test scores from initial-eligibility requirements. Check with the NCAA school you plan to attend regarding whether standardized test scores are necessary for admissions or scholarship requirements.

Division II

- 3 years of English.
- 2 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 3 years of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).

Important: Any student seeking to participate in NCAA sports should consult with their school counselor before taking any course online, through correspondence, or in any other non-traditional means. The NCAA does not recognize certain types of non-traditional instruction and this can impact student eligibility.

Career and Technical Education



CTE Career Clusters and Programs of Study

Agriculture, Food, and Natural Resources
- Animal Science - p. 137
- Applied Agricultural Engineering - p. 139
- Plant Science - p. 141

Architecture and Construction
- Architectural Design - p. 144
- **Construction Academy*** - p. 146

Arts, Audio/Video Technology and Communications
- **Creative Media Production Academy*** p. 148
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Business, Marketing, and Finance
- **Business Management and Entrepreneurship Academy*** - p. 161
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Education and Training
- Early Learning - p. 167
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***Multiple Programs of Study may exist in each Career Academy**

Engineering
- **STEM Academy*** - p. 174

Health Science
- **Biomedical Sciences Academy*** p. 180
- Health Science - p. 184

Hospitality and Tourism
- **Culinary Arts and Hospitality Academy*** p. 188

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Transportation, Distribution, and Logistics
- **Aviation Academy*** - p. 204
- **Transportation, Automation and Logistics Academy** - p. 215

TEA CTE Completer Guide

Program of Study Accountability
Completion of a program of study is among the indicators used for evaluating the performance of high school campuses and districts that include high school campuses.

Completer
A student served by an LEA who completes, passes, and receives credit for three or more high school CTE courses for four or more credits, including at least one level 3 or level 4 course, from within the same program of study.

A CTE completer must meet all of the criteria, from within the same program of study:

- 3 or more CTE courses for
- 4 or more credits, with at least
- One course (or more) at Level 3 or 4
- Earn at least one qualifying industry-based certification within the program of study



CTE Level 1
Learning ABOUT Work
Build awareness of the variety of careers available and the role of postsecondary education; broaden student options.



CTE Level 3
Learning THROUGH Work
Apply learning through practical experience that develops knowledge and skills necessary for success in careers and postsecondary education.



CTE Level 2
Learning ABOUT Work
Explore career options and postsecondary
for the purpose of motivating students and to inform their decision making in high school and postsecondary education.



CTE Level 4
Learning FOR Work
Train for employment and/or postsecondary education in a specific range of occupations.

Agriculture, Food, and Natural Resources

Animal Science

Animal Science: Enhance your passion working within diverse animal industries using preventative medicine, advanced therapeutic techniques, and injury treatment.

Potential Careers: Veterinary assistant, veterinary technician, or veterinarian
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	Principles of Agriculture, Food, and Natural Resources (1 credit)	Livestock and Poultry Production (1 credit)	Veterinary Medical Applications (1 credit)	Advanced Animal Science (1 credit) **or** Practicum in Agriculture (2 credits) *[NOTE: Practicum is highly recommended.]*

Principles of Agriculture, Food, and Natural Resources

Course Numbers:
0812 | 13000200
Credits: 1
Grade Placement: 9-10
Semesters: 2
Required Prerequisite: None

In this introductory course, students will learn about the wonderful career opportunities available in Agriculture, through experiences in leadership development (FFA), plant science, animal industry, food technology, and agriculture mechanics. Students will have the opportunity to complete the OSHA 10 Hour training program.

Livestock and Poultry Production

Course Numbers:
CT.0818 | 13000300
Credits: 1
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources

Livestock and Poultry Production explores the health and nutrition, reproduction, and management of livestock and poultry. Students will develop skills to evaluate livestock, learn breeds, feed types and feeding techniques, breeding innovations and animal management. Live animals may be used in this course.Per TAC 74.11 students will demonstrate equivalent knowledge as determined by the school district for enrollment in this course.

Veterinary Medical Applications

Course Numbers:
0837 | 13000600
Credits: 1
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Livestock and Poultry Production
Certification: Elanco Veterinary Medical Applications

Veterinary Medical Applications is a hands-on introduction to the concepts and skills related to the veterinary science industry while preparing students for a Veterinary Assistant Level 1 certification exam. Students develop competencies in the health, nutrition and safe handling of small and large animals, as well as the regulations for surgical preparations, vaccine predation and injection technique, and medical terminology in relation to the anatomy, physiology, and infectious diseases of animals. Live animals will be used in this class for skill development.

Advanced Animal Science

Course Numbers:
08182 | 13000700
Credits: 1
Grade Placement: 11-12
Semesters: 2
Weighted GPA: Level 2
Required Prerequisite: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and Livestock and Poultry Production
Recommended Prerequisite: Veterinary Medical Applications
Certification: Elanco Fundamentals of Animal Science

Students will learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the correspondence of human, scientific, and technological aspects of animal science through field and laboratory experience. Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement and will be included in the calculation of the weighted GPA. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Practicum in Agriculture, Food, and Natural Resources (Internship)

PRACI-BL-AFNR
Course Numbers First Time Taken:
CT.B08121 | 13002500
PRACII-BL-AFNR
Course Numbers Second Time Taken:
CT.B0822 | 13002510
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: A minimum of two credits with at least one course in a Level 2 or higher course from the Agriculture, Food, and Natural Resources career cluster. Eligibility verification at the district level.
Recommended Prerequisite: Veterinary Medical Applications or Advanced Animal Science

Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as off-campus internships, mentorships or campus-based laboratories. See the internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Applied Agricultural Engineering

Applied Agricultural Engineering: Design and fabricate metal projects and agriculture equipment using computer-aided design software and advanced welding techniques.

Potential Careers: Welder, CNC machine technician, or structural designer
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	Principles of Agriculture, Food, and Natural Resources (1 credit)	Agricultural Mechanics and Metal Technologies (1 credit)	Agricultural Equipment Design and Fabrication with Lab (2 credits)	Practicum in Agriculture (2 credits)

Principles of Agriculture, Food, and Natural Resources

Course Numbers:
0812 | 13000200
Credits: 1
Grade Placement: 9-10
Semesters: 2
Required Prerequisite: None

In this introductory course, students will learn about the wonderful career opportunities available in Agriculture, through experiences in leadership development (FFA), plant science, animal industry, food technology, and agriculture mechanics. Students will have the opportunity to complete the OSHA 10 Hour training program.

Agricultural Mechanics and Metal Technologies

Course Numbers:
0816 | 13002200
Credits: 1
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite:
Principles of Agriculture, Food, and Natural Resources

This hands on laboratory based course curriculum, will prepare students for entry level skills needed for Applied Agriculture Engineering Career such as safety practices, tool operation, carpentry, welding, plumbing, concrete and electrical wiring. Students will have the opportunity to complete the OSHA 10 Hour training program.

Agricultural Equipment Design and Fabrication with Lab

Course Numbers: CT.0819 | 13002360
Credits: 2
Grade Placement: 11-12
Semesters: 2
Recommended Prerequisite: Agricultural Mechanics and Metal Technologies
Certification: AWS D1.1 and D9.1 Welding; AWS-Certified Welder

This project based course in Agricultural Equipment Design and Fabrication, will help students develop knowledge and skills needed for a career in mechanized Agriculture. The students will take the skills learned in the Agriculture Mechanics and Metal Technology and design and fabricate projects in Agricultural Equipment. The course offers an opportunity to earn an AWS D1.1 and D9.1 and AWS-Certified Welder certification.

Practicum in Agriculture, Food, and Natural Resources (Internship)

PRACI-BL-AFNR
Course Numbers First Time Taken:
CT.B08121 | 13002500
PRACII-BL-AFNR
Course Numbers Second Time Taken:
CT.B0822 | 13002510
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: A minimum of two credits with at least one course in a Level 2 or higher course from the Agriculture, Food, and Natural Resources career cluster. Eligibility verification at the district level.
Recommended Prerequisite: Veterinary Medical Applications or Advanced Animal Science

Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as off-campus internships, mentorships or campus-based laboratories. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Plant Science

Plant Science: Create innovative art using flowers imported from around the world with a focus on the science, research and business of plants and other living organisms.

Potential Careers: Floral Design Assistant, Wholesale Designer, or Landscape Architect
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

			 	
Recommended Course Sequence	Principles of Agriculture, Food, and Natural Resources (1 credit)	Floral Design (1 credit) or Horticulture Science (1 credit)	• Advanced Floral Design (1 credit) or • Greenhouse Operations and Production (1 credit)	Practicum in Agriculture (2 credits)

Principles of Agriculture, Food, and Natural Resources

Course Numbers:
0812 | 13000200
Credits: 1
Grade Placement: 9-10
Semesters: 2
Required Prerequisite: None

In this introductory course, students will learn about the wonderful career opportunities available in Agriculture, through experiences in leadership development (FFA), plant science, animal industry, food technology, and agriculture mechanics. Students will have the opportunity to complete the OSHA 10 Hour training program.

Horticultural Science

Course Numbers:
0821 | 13002000
Credits: 1
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite:
Principles of Agriculture, Food, and Natural Resources
Certification: BASF Plant Science certification

This hands-on course prepares students to produce, process, and market horticulture plants used primarily for ornamental, recreational, and aesthetic purposes.Per TAC 74.11 students will demonstrate equivalent knowledge as determined by the school district for enrollment in this course.

Floral Design I

Course Numbers: 0827 | 13001800
Credits: 1
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Certification: Texas State Florist's Association Floral Skills Knowledge Based Certification, Texas State Floral Association Student Certification Floral Design Level I

This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. This course satisfies the graduation requirement for Fine Arts. This course will equip students to take the Texas State Florist's Association Floral Skills Knowledge Based Certification and the Texas State Floral Association Student Certification Floral Design Level I.

Greenhouse Operations and Production

Course Numbers: CT.2050 | 13002050
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Principles of Agriculture, Food, and Natural Resources

This course is designed to develop an understanding of greenhouse production techniques and practices. Students will gain an understanding of common horticulture management practices as they relate to food and ornamental plant production. Students will have the opportunity to work in the school's greenhouse.

Advanced Floral Design

Course Numbers: CT.0862 | 13001850
Credits: 1
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Floral Design I and Texas State Floral Association Student Certification Floral Design Level I
Certification: Texas State Floral Association Student Certification Floral Design Level II and BASF Plant Science Certification

In this course, students build on the knowledge and skills learned in Floral 1 and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. Students will have the opportunity to work within a functioning school floral design studio. Students will be trained and prepared for a Texas Floral Association Student Level II Certification.

Practicum in Agriculture, Food, and Natural Resources (Internship)

PRACI-BL-AFNR
Course Numbers First Time Taken: CT.B08121 | 13002500
PRACII-BL-AFNR
Course Numbers Second Time Taken: CT.B0822 | 13002510
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: A minimum of two credits with at least one course in a Level 2 or higher course from the Agriculture, Food, and Natural Resources career cluster. Eligibility verification at the district level.
Recommended Prerequisite: Veterinary Medical Applications or Advanced Animal Science

Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as off-campus internships, mentorships or campus-based laboratories. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.



Architecture and Construction

Architectural Design

Architectural Design: Visualize, design, and construct 3D models and generate a wide range of full-color prototypes, prints, and 3D computer-aided drawings.

Potential Careers: AutoCAD Drafter, Interior Technical Designer, or Architectural Designer (Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	Principles of Architecture (1 credit)	Architectural Design I (1 credit)	Architectural Design II (2 credits)	Computer Aided Drafting for Architecture (1 credit)

Principles of Architecture

Course Numbers:
0828 | 13004210
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: None

This course provides an overview of the various fields of architecture, interior design, and construction management. Students will develop professional skills, investigate career opportunities and the skills necessary to work in this industry. Course studies will include project-planning, hand-drawing, reading plans, identifying appropriate materials, creating models and portfolio development. Students will have the opportunity to complete the OSHA 10 Hour training program.

Architectural Design I

Course Numbers:
0826 | 13004600
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Algebra I, English I
Recommended Prerequisite: Principles of Architecture, Geometry

This course focuses on the knowledge and skills needed to enter a career in architecture or construction. Students will learn about design, design history, techniques and tools related to both residential and nonresidential buildings. Professional skills including communication and time management will be key parts of Architectural Design I. Course products will include drawings, renderings, site plans, elevations, scale models and a professional portfolio. The first semester will focus on hand-drawing while the second semester will utilize AutoDesk Revit software. Students will prepare for the Revit certification.

Architectural Design II

Course Numbers:
08241 | 13004700
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite:
Architectural Design I, Geometry, and Computer Aided Drafting for Architecture (can be concurrently enrolled)

This advanced course will build on previous knowledge and immerse students in a workplace environment. Course studies will include working with clients, interpreting and evaluating design decisions, working on large scale CAD projects with design plans, models and presentations. Students will demonstrate professional and employability skills, such as communication skills, teamwork, work habits and maintain a professional portfolio. Students will earn their Revit certification.

Computer-Aided Drafting for Architecture

Course Numbers:
CT.0616 | N1300429
Credits: 1
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite:
Architectural Design I

This course focuses on learning industry standard drafting skills through AutoDesk Revit. Course studies include setting up a CAD workstation and working with software ribbons to increase design skills. Students will increase their depth of knowledge in the software and gain the skills of a drafter. Students will work on large scale design projects using Gantt Charts, bubble diagrams and more to simulate the professional work of an architect. CAD students may earn their certification AutoCad.

Additional Opportunity

Practicum in Architectural Design

PRACI-BL-ARCH
Course Numbers:
CT.B08242 | 13004800
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite:
Architectural Design II; eligibility verification at district level

Professional skills, like problem solving, project management and client communication, combined with Architectural Design experience and knowledge will be a key part of this course. The course could include an on-campus internship, off-campus internship or mentorship with an industry professional. Students will work with their mentor to work on a large-scale design project to include architectural drawings and other design board elements. A project portfolio will be presented to a panel of professionals using formal presentation skills. Students will also continue to develop a professional portfolio showcasing their accomplishments, knowledge and skills, certifications and artifacts. *Students will work with their teacher, mentor and coordinator to plan their year.* See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Construction Academy

Located at Northwest High School

Construction Academy: Build your future in construction! Students will gain hands-on experience in plumbing, carpentry, electrical, and HVAC while learning key skills in safety, communication, and blueprint reading. Earn the nationally recognized certification and, as a senior, apply their skills through a practicum with local industry partners.

Potential Careers: Project Manager / Construction Project Manager, Facilities Manager, General Contractor / Business Owner, Electrician, Plumber/Pipefitter

(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	Principles of Construction (1 credit)	Building Maintenance Technology I (2 credits)	Building Maintenance Technology II (2 credits)	Practicum in Construction Technology (2 credits) **Course Available in 2028-2029**

Principles of Construction

Course Numbers:
CT.0701AC | 13004220
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: None

This course provides knowledge of construction safety, construction mathematics, and common hand and power tools. Students will identify and develop professional skills required to work in the construction industry. Course studies include safety standards, recognizing hazards, construction mathematics and measurements, the use and maintenance of hand and power tools, reading construction drawings, material handling, and verbal and written jobsite communication. Students will have the opportunity to complete the OSHA 10-hour training program.

Building Maintenance Technology I

Course Numbers:
CT.0101AC | 13005400
Credits: 2
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Principles of Construction

This course focuses on the knowledge and skills needed to enter a career in building maintenance and construction. Building Maintenance Technology I will continue to build students' understanding of professional standards and employability skills, worksite safety guidelines and regulations, and reading construction drawings and commercial documents such as architectural, engineering, and shop drawings. Students will gain knowledge and develop skills in plumbing; electrical; and heating, ventilation and air conditioning (HVAC). Students will also learn methods for drywall installation and repair; roofing; insulation systems; installing cabinetry and countertops; and selecting and installing flooring. Students will demonstrate the skills necessary to safely use and maintain hand tools, power tools, and the latest construction technologies.

Building Maintenance Technology II

Course Numbers:
CT.0102AC | 13005500
Credits: 2
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Building Maintenance Technology I

This course builds on Building Maintenance Technology I to provide advanced knowledge and skills needed to enter a career in building maintenance and construction. Building Maintenance Technology II will provide students with knowledge and skills in safety standards; safety devices in electrical circuits; maintenance of electrical HVAC; and concepts of historical preservation. Students will learn how to interpret blueprints; install lamps and lighting fixtures; use and maintain common electrical testing equipment; and install, select, prepare, join, and support copper and plastic pipes.

Practicum in Construction Technology

Course Numbers:
CT.0901AC | 13005250
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Building Maintenance Technology II

This advanced course will immerse students in a workplace environment to develop professional, technical and project management skills. Course studies will include developing a management plan for a project; applying applicable codes, laws, standards and regulations to a research and development project; describe project expectations through a flow chart; use critical thinking to solve problems and make decisions related to research, design, and development; develop a project budget and describe costs associated with the project; and use advanced technology, tools, materials, and processes to complete construction projects.

Arts, Audio/Video Technology and Communications

Creative Media Production Academy

Located at Northwest High School

The CMP Academy aligns with two Programs of Study:

- **Digital Communications:** Audio/Video Production
- **Graphic Design and Interactive Media**: Graphic Design and Illustration

Potential Careers: News anchor, television producer, filmmaker, graphic designer, or creative director (Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

Students in this academy can take any course in the academy as long as they have met the prerequisite for the course. For example, students must take a career exploration course before taking the corresponding career preparation course.

			 
Principles of Arts, Audio/ Video Technology, and Communications+	Audio/Video Production I	Audio/Video Production II (NHSTV or Cinematic Media)	• Practicum in Audio/ Video Production (NHSTV) (Internship) OR • Digital Design and Media Production
	Commercial Photography I* (Discontinued as an academy course)	Commercial Photography II* (Last year offered as an academy course is 27-28)	• Practicum in Commercial Photography (Internship)* (Last year offered as an academy course is 28-29) OR • Digital Design and Media Production
	Graphic Design and Illustration I	Graphic Design and Illustration II	• Practicum in Graphic Design and Illustration (Internship) OR • Digital Design and Media Production

+Students who have completed Digital Communications in the 21st Century or Digital Art & Animation can enter directly into either A/V I or Graphic Design I

*Commercial Photography I (Yearbook), Commercial Photo II (Yearbook) & Practicum in Commercial Photography (Yearbook) are offered at Northwest HS as non-academy courses within the non-Academy Graphic Design & Interactive Media program beginning 2027-2028.

Principles of Arts, Audio/Video Technology, and Communications

Course Numbers:
0875 | 13008200
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: None

This course is the introductory course for the Creative Media Production Academy. The course includes an introduction to audio and video production, graphic design and illustration, and principles of photography. Adobe Creative Cloud Applications, such as Photoshop, Illustrator. Premiere, and Lightroom will be used in the course.

Audio/Video Production

Audio/Video Production I

Course Numbers:
2202AC | 13008500
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: Facilitator approval

This course will explore the Audio and Video production industry and its post-secondary educational and career opportunities. Students will gain job-specific training for entry level employment in audio, video, television, and film. Professional equipment and Adobe Creative Cloud software will be used in the creation of student productions. Students will be involved in every aspect of several class and small group audio, video, and film style production projects with emphasis on live multi-camera video and film style production projects. This course will prepare students to work at the school television station, NHSTV, or in the field of videography. Students will have the opportunity to earn Adobe Certified Professional Certifications.

Audio/Video Production II/ Audio/Video Production II Lab (NHSTV or Cinematic Media)

Course Numbers:
CT.0864AC | 13008610
Credits: 2
Grade Placement: 10-12
Semesters: 2
Required Prerequisite:
Audio/Video Production I; eligibility verification at district level; see academy facilitator for more information.

NHSTV
Students in this course will work as employees for the award winning television station, NHSTV. Students will produce a live TV show each and every day in our state of the art HD television production facility. Students will work as reporters, anchors, producers and crew members. Students will work on several audio and/or video productions created for television, cable television, education, radio, entertainment, business and/or industry.
Cinematic Media
This course introduces students to videography, including camera operation, composition, lighting, audio, editing, and visual storytelling. Students will gain hands-on experience creating and producing video projects while learning how to communicate ideas effectively through digital media. Emphasis is placed on creativity, collaboration, technical skills, and responsible use of media.

Digital Design & Media Production

Course Numbers:
CT.5804| 03580400
Credits: 1
Grade Placement: 12
Semesters: 2
Required Prerequisite: None

This a senior-level course designed to build upon students' prior knowledge and skills in technology, communication, and creative expression. Emphasizing independence and collaboration, students will apply advanced digital tools to design, produce, and present professional-quality media projects. They will strengthen their ability to solve problems, make informed decisions, and demonstrate integrity and respect through responsibility. The course culminates students to showcase mastery of digital design principles, creativity, innovation, and collaboration in a comprehensive final product that highlights their readiness for future academic or career.

Practicum in Audio/Video Production (NHSTV or Cinematic Media) (Internship)

PRACI-BL-AAV-AVP
Course Numbers First Time Taken:
CT.B215AC | 13008700
PRACII-BL-AAV-AVP
Course Numbers Second Time Taken:
CT.B225AC | 13008710
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Audio/Video Production II and Audio/Video Production II Lab; eligibility verification at district level; see academy facilitator for more information.

Students in this class will develop advanced knowledge and skills in their chosen field of study related to audio and video production. Students will develop their portfolio of work that will assist them in gaining entry level employment, earning admittance into college film/ video, television/radio broadcasting, and audio production programs, as well as securing post- secondary scholarships. Additional time beyond regular school hours is required for productions. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Commercial Photography/Yearbook

Commercial Photography II

Course Numbers:
2108AC | 13009200
Non-Academy Course Numbers:
CT.2108 | 13009200
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Eligibility verification at district level; see academy facilitator for more information.
Recommended Prerequisite:
Commercial Photography I

In this course, students will build upon the concepts established in the previous class. They will uncover advanced camera capabilities and photographic composition concepts. A further study of natural and studio lighting will unlock greater creative possibilities, including an exploration of off-camera flash. Opportunities for very specific event coverage will arise, and advanced techniques with regards to certain genres will be explored. Finally, students will learn and prepare more detailed plans for a sound photography business.

Commercial Photography II/ Commercial Photography II Lab

Course Numbers: CT.0865AC | 13009210
Non-Academy Course Numbers: CT.1865 | 13009210
Credits: 2
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Course must be taken concurrently with Commercial Photography II; eligibility verification at district level; see academy facilitator for more information.
Recommended Prerequisite: Commercial Photography I

Digital Design & Media Production

Course Numbers:
CT.5804| 03580400
Credits: 1
Grade Placement: 12
Semesters: 2
Required Prerequisite: None

This a senior-level course designed to build upon students' prior knowledge and skills in technology, communication, and creative expression. Emphasizing independence and collaboration, students will apply advanced digital tools to design, produce, and present professional-quality media projects. They will strengthen their ability to solve problems, make informed decisions, and demonstrate integrity and respect through responsibility. The course culminates students to showcase mastery of digital design principles, creativity, innovation, and collaboration in a comprehensive final product that highlights their readiness for future academic or career.

Practicum in Commercial Photography (Internship)

PRACI-BL-AAV-CP
Course Numbers First Time Taken: CT.B861AC | 13009250
Non-Academy Course Numbers First Time Taken: CT.0854 | 13009250
PRACII-BL-AAV-CP
Course Numbers Second Time Taken: CT.B862AC | 13009260
Non-Academy Course Numbers Second Time Taken: CT.0855 | 13009260
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Commercial Photography I and Commercial Photography I Lab; eligibility verification at district level; see academy facilitator for more information.
Recommended Prerequisite: Commercial Photography II

In this class, students will both receive and seek out opportunities for commercial photography both within the district and the community. Using their skills from the previous classes, they will further their portfolio and marketability in this career field. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Graphic Design and Illustration

Graphic Design and Illustration I

Course Numbers:
2102AC | 13008800
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: Eligibility verification at district level; see academy facilitator for more information.

In this course, students will learn the basics of Adobe Illustrator and Adobe Photoshop. Students will be expected to work together and by themselves on several projects that will teach them the basic principles of design, advertising and marketing. Students will learn about color, composition, drawing, texture, photo editing and typography. Students will have the opportunity to earn Adobe Certified Professional Certifications.

Graphic Design and Illustration II/ Graphic Design and Illustration II Lab

Course Numbers: CT.0862AC | 13008910
Credits: 2
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Graphic Design and Illustration I; eligibility verification at district level; see academy facilitator for more information.

Digital Design & Media Production

Course Numbers:
CT.5804 | 03580400
Credits: 1
Grade Placement: 12
Semesters: 2
Required Prerequisite: None

This a senior-level course designed to build upon students' prior knowledge and skills in technology, communication, and creative expression. Emphasizing independence and collaboration, students will apply advanced digital tools to design, produce, and present professional-quality media projects. They will strengthen their ability to solve problems, make informed decisions, and demonstrate integrity and respect through responsibility. The course culminates students to showcase mastery of digital design principles, creativity, innovation, and collaboration in a comprehensive final product that highlights their readiness for future academic or career.

Practicum in Graphic Design and Illustration (Internship)

PRACI-BL-AAV-GDI
Course Numbers First Time Taken:
CT.B841AC | 13009000
PRACII-BL-AAV-GDI
Course Numbers Second Time Taken:
CT.B842AC | 13009010
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Graphic Design and Illustration II and Graphic Design and Illustration II Lab; facilitator approval; eligibility verification at district level

This course is a portfolio building and client based class. Students will consistently work for different clients to help build their portfolio, perfect their style and understand the graphic design market. Students will be provided feedback by the teacher, peers and clients. Students will learn responsibility, time management and how to engage and communicate with a client. Students will leave this course with a portfolio, resume and letters of recommendation that will help them to either be future ready, career ready or college ready. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Design and Multimedia Arts

Design and Multimedia Arts: Create vibrant illustrations, animations, drawings, logos, ads, and traditional art for dynamic visual media. Upper-level students design and produce all aspects of the campus yearbook.

Potential Careers: Photographer, brand designer, or creative director
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				 
Recommended Course Sequence	Principles of Arts, Audio/Video Technology, and Communications (1 credit)	Commercial Photography I (Yearbook I) (1 credit)	Commercial Photography II (Yearbook II) (1 credit)	• Practicum in Commercial Photography (Yearbook III) (2 credits) or • Digital Design and Media Production (1 credit)

Principles of Arts, Audio/Video Technology, and Communications

Course Numbers:
0875 | 13008200
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: None

This course includes an introduction to audio and video production, graphic design and illustration, and principals of photography. Adobe Creative Cloud Applications, such as Photoshop, Illustrator. Premiere, and Flash will be used in the course. Students at Northwest High School can apply to the Creative Media Production Academy after taking this course their 9th or 10th grade year.

Commercial Photography I

Course Numbers:
0854 | 13009100
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: None

Yearbook I
This course provides students with the photography and visual storytelling skills needed to create media/publishing. Students will learn the fundamentals of camera operation, including the exposure triangle, creative and manual camera modes, composition, and techniques for capturing strong images across a variety of settings and events. Students will also develop essential skills in Photoshop and Lightroom for basic photo editing, retouching, and preparing images for publication. Through hands-on photography, students will learn how to capture meaningful moments, tell stories through images, and select photographs that effectively represent the medium. In addition, students will explore photography history, copyright, ethics, and basic business practices, giving them a well-rounded understanding of photography and the responsibilities involved in producing professional-quality publications Students will have the opportunity to earn Adobe Certified Professional Certifications.

Commercial Photography II

Course Numbers:
CT.2108 | 13009200
Credits: 1
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite:
Commercial Photography I

Yearbook II
This advanced course focuses on the planning, production, and publication of the Yearbook as a professional product. Building on foundational photography and design skills, students will take an active role in creating a cohesive publication that captures and celebrates the people, events, experiences, and stories of the school year. Students will develop skills in yearbook design, page layout, visual storytelling, photo selection and editing, copywriting, interviewing, and content development. They will learn how to establish and maintain a consistent visual identity, organize content and deadlines, and make thoughtful editorial decisions that balance creativity, accuracy, and audience appeal. Students will also gain experience working with yearbook production software and industry-standard workflows while learning the processes involved in preparing a publication for print and distribution.

Commercial Photography II/ Commercial Photography II Lab

Yearbook II + Lab
Course Numbers: CT.1865 | 13009210
Credits: 2
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Must be taken concurrently with Commercial Photography II; eligibility verification at district level; see academy facilitator for more information.
Recommended Prerequisite: Commercial Photography I

Digital Design & Media Production

Course Numbers:
CT.5804 | 03580400
Credits: 1
Grade Placement: 12
Semesters: 2
Required Prerequisite: None

This a senior-level course designed to build upon students' prior knowledge and skills in technology, communication, and creative expression. Emphasizing independence and collaboration, students will apply advanced digital tools to design, produce, and present professional-quality media projects. They will strengthen their ability to solve problems, make informed decisions, and demonstrate integrity and respect through responsibility. The course culminates students to showcase mastery of digital design principles, creativity, innovation, and collaboration in a comprehensive final product that highlights their readiness for future academic or career.

Practicum in Commercial Photography (Internship)

PRACT-COM-PHO I
Course Numbers First Time Taken: CT.0854 | 13009250
PRACT-COM-PHO II
Course Numbers Second Time Taken: CT.0855 | 13009260
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Commercial Photography I and Commercial Photography I Lab
Recommended Prerequisite: Commercial Photography II

Yearbook III
This advanced course builds on photography, design, and yearbook production skills while preparing students to take on greater responsibility and leadership in the creation of the Yearbook. Students will take on leadership roles within the Yearbook staff, helping to plan coverage, establish production goals, organize assignments, manage deadlines, and support the work of other staff members. They will learn to provide constructive feedback, solve problems, make editorial decisions, and communicate effectively while working collaboratively in a deadline-driven environment. Students will also explore the business and marketing aspects of Yearbook production, including sales, promotion, customer service, and maintaining a strong relationship with the school community. See the Internships section of this guide for additional information or visit our website at www.nisdtx.org/cte.

Digital Communications

Digital Communications: Upper-level students create, produce and deliver all components for campus video announcements. Students gain job-specific training for entry level employment in audio, video, television, and film.

Potential Careers: Video Editor, News Producer, or Television/Film Director
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				 
Recommended Course Sequence	Principles of Arts, Audio/Video Technology, and Communications (1 credit)	Audio/Video Production I (1-2 credits)	Audio/Video Production II (1-2 credits)	• Practicum in Audio/ Video Production (2 credits) or • Design and Media Production (1 credit)

Principles of Arts, Audio/Video Technology, and Communications

Course Numbers:
0875 | 13008200
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: None

This course includes an introduction to audio and video production, graphic design and illustration, and principals of photography. Adobe Creative Cloud Applications, such as Photoshop, Illustrator. Premiere, and Flash will be used in the course. Students at Northwest High School can apply to the Creative Media Production Academy after taking this course their 9th or 10th grade year.

Audio/Video Production I

Course Numbers:
CT.2202 | 13008500
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: None

In this course you will work for BobcatTv (BNHS) or EGLTV (EHS) for video announcements. This course will explore the Audio and Video production industry and its postsecondary educational and career opportunities. Students will gain job-specific training for entry level employment in audio, video, television, and film. Professional equipment and Adobe Creative Cloud software will be used in the creation of student productions. Students will be involved in every aspect of several class and small group audio, video, and film style production projects with emphasis on live multi-camera video and film style production projects. Students will have the opportunity to earn Adobe Certified Professional Certifications.

Audio/Video Production I with Lab

Course Numbers:
CT.0864 | 13008510
Credits: 2
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: None

This lab will allow an option for a student enrolled in Audio Video Production I to have an additional credit working in the school television station, for video announcements.

Audio/Video Production II

Course Numbers:
CT.2203 | 13008600
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite:
Audio/Video Production I; by approval only

This course is for students who want to take a second year of BobcatTV (BNHS) or EGLTV (EHS). Students in this course will work as employees for the television station. Students will produce a live TV show each and every day in our state of the art HD television production facility. Students will work as reporters, anchors, producers and crew members. Students will work on several audio and/or video productions created for television, cable television, education, radio, entertainment, business and/or industry.

Audio/Video Production II/ Audio/Video Production II Lab

Course Numbers: CT.0865 | 13008610
Credits: 2
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Audio/Video Production I; by approval only

Digital Design & Media Production

Course Numbers:
CT.5804 | 03580400
Credits: 1
Grade Placement: 12
Semesters: 2
Required Prerequisite: None

This a senior-level course designed to build upon students' prior knowledge and skills in technology, communication, and creative expression. Emphasizing independence and collaboration, students will apply advanced digital tools to design, produce, and present professional-quality media projects. They will strengthen their ability to solve problems, make informed decisions, and demonstrate integrity and respect through responsibility. The course culminates students to showcase mastery of digital design principles, creativity, innovation, and collaboration in a comprehensive final product that highlights their readiness for future academic or career.

Practicum in Audio/Video Production (Internship)

PRACI-BL-AAV-AVP
Course Numbers First Time Taken:
CT.B215 | 13008700
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Audio/Video Production II; eligibility verification at district level; see academy facilitator for more information.

Students in this class will develop advanced knowledge and skills in their chosen field of study related to audio and video production. Students will develop their portfolio of work that will assist them in gaining entry level employment, earning admittance into college film/video, television/radio broadcasting, and audio production programs, as well as securing post-secondary scholarships. Additional time beyond regular school hours is required for productions. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.



Business, Marketing and Finance

Business Management and Entrepreneurship Academy

Located at Eaton High School

Business Management and Entrepreneurship Academy: Build a business as part of the next generation of socially responsible entrepreneurs and global business leaders seeking and finding innovative solutions to today's challenges.

Potential Careers: Venture Capitalist, Entrepreneur, Event and Marketing Specialist
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	**BME Fundamentals** Principles in Business, Marketing, and Finance (1 credit)	**BME Operations** Entrepreneurship I (1 credit)	**BME Innovation** Entrepreneurship II (1 credit)	**BME Capstone** Practicum in Business Management/VEI (2 credits) **or** Business Management Project-Based Capstone (1 credit)

Principles of Business, Marketing, and Finance (BME Fundamentals)

Course Numbers:
CT.0868AC | 13011200
Credits: 1
Grade Placement: 9 (or 10 by facilitator Approval)
Semesters: 2
Required Prerequisite: Academy facilitator approval

This course offers a hands-on business startup experience where students research and test ideas, develop a business plan and present a business concept. Students gain the knowledge, skills and foundational concepts needed to start and operate a business.

Entrepreneurship I (BME Operations)

Course Numbers:
8104AC | 13011101
Credits: 1
Grade Placement: 10
Semesters: 2
Required Prerequisite: Academy facilitator approval

This course builds professional and entrepreneurial skills in communication, teamwork and ethical decision-making while exploring business structures, e-commerce, virtual business, marketing, and financial planning. Students use business planning tools to research opportunities and create a comprehensive business concept and pitch. Students continue their pursuit of Microsoft Office and additional industry recognized certifications.

Entrepreneurship II (BME Innovation)

Course Numbers:
CT.0502AC | 13011102
Credits: 1
Grade Placement: 11
Semesters: 2
Required Prerequisite: Entrepreneurship I; Academy facilitator approval

Students continue to hone their passion for problem solving and innovation as they develop skills necessary to start, operate, and grow a small business. Includes essential management skills, how to prepare a business plan, accounting, financial needs, staffing, marketing strategies, and legal issues. Students explore case studies in global business to learn strategies for success in business. Students continue their pursuit of Microsoft Office and additional industry recognized certifications.

VEI Business Management and Practicum in Business Management (BME Capstone) (Internship)

Student teams develop a business plan for a virtual start-up business and participate in marketing and selling their product in the Virtual Enterprises International virtual economy. In this student-led and operated virtual business, students assume specific job roles and responsibilities for “their VEI firm.” Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions. In order to participate in internships or Virtual Enterprises International students will need prior approval from the academy facilitator. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Practicum in Business Management/VEI Team (BME Capstone) (Internship)

PRACI-BL-BUSM (VEI)
Course Numbers First Time Taken: CT.B865AC | 13012200
Credits: 2
Grade Placement: 12
Semesters: 2
Required Prerequisite: Academy facilitator recommendation and approval; eligibility verification at district level; see academy facilitator for more information.

Practicum in Business Management/ Extended/ VEI Team (BME Capstone) (Internship)

PRAC-EXI-BL-BUSM (VEI)
Course Numbers First Time Taken: CT.B815AC | 13012205
Credits: 3
Grade Placement: 12
Semesters: 2
Required Prerequisite: Academy facilitator approval; eligibility verification at district level

Project-Based Capstone - Business Management

Course Numbers:
CT.0911AC | 12701101
Credits: 1
Grade Placement: 12
Semesters: 2
Required Prerequisite: Academy facilitator recommendation and approval; eligibility verification at district level; see academy facilitator for more information.

This course is designed to familiarize students with the concepts related to business management as well as the functions of management including, planning, organizing, staffing, leading, and controlling. Partnering with their teacher and/ or mentor, students will complete an independent research project relevant to the functions of business management. Students conduct research, compile findings, implement project activities appropriate to student contribution, and formally present their work to a relevant audience that may include industry experts.



Business Management

Business Management: Develop foundational business knowledge, industry recognized skills, and explore the responsibilities and rewards of being a manager for an organization.

Potential Careers: Chief Executive Officer, Purchasing Manager, Executive Assistant
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	Principles of Business, Marketing and Finance (1 credit)	Business Management (1 credit)	Foundations of Business Communication and Technology (1 credit)	Business Law (1 credit)

Principles of Business, Marketing, and Finance

Course Numbers: CT.0868 | 13011200
Credits: 1
Grade Placement: 9-11
Semesters: 2
Required Prerequisite: None
Industry-Based Certifications: Professional Communication Skills (CCS)

In this course students explore basic business operations for the sale of goods and services, advertising strategies businesses use, and financial management for business.

Business Management

Course Numbers: CT.8101 | 13012100
Credits: 1
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Industry-Based Certification: Entrepreneurship and Small Business (ESB)

This course is designed to familiarize students with the concepts related to business management as well as the functions of management including, planning, organizing, staffing, leading, and controlling. Students also demonstrate communication and interpersonal skills to accomplish management objectives.

Foundations of Business Communication and Technologies

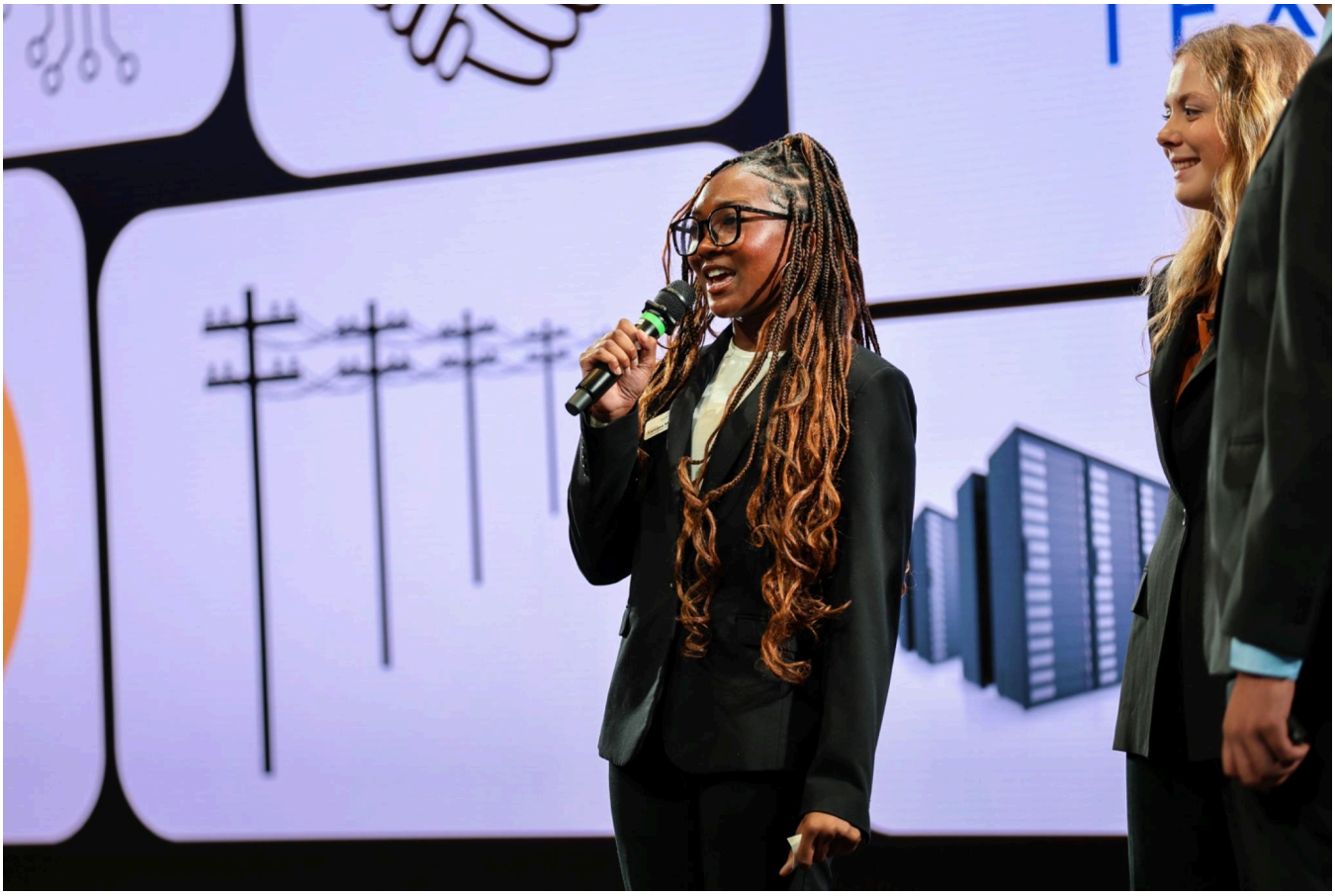
Course Numbers: 0839 | 13011400
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: None
Industry-Based Certifications: Microsoft Office Specialist Certifications - Word Associate, Excel Associate, and PowerPoint Associate

This course introduces students to information systems and business management to support decision-making. Students build skills in word processing, spreadsheets, databases, presentation and desktop publishing while applying professional standards of communication. Students will be expected to complete Microsoft Certification exams throughout the course.

Business Law

Course Numbers: CT.0504 | 13011700
Credits: 1
Grade Placement: 11-12
Semesters: 2
Recommended Prerequisite: Business Management

Students will analyze various aspects of the legal environment of business including ethics, the judicial system, contracts, patents, trademarks, personal property, sales, agency and employment, business organization, real property, and business risk management.



Additional Opportunities

Practicum in Business Management (Internship)

PRACI-BL-BUSM
Course Numbers First Time Taken:
CT.B8105 | 13012200
PRACII-BL-BUSM
Course Numbers Second Time Taken:
CT.B8205 | 13012210
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Eligibility verification at district level
Recommended Prerequisite: Business Management and Foundations of Business Communication and Technologies

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills in business. Practicum students apply business technical skills they have learned in a work- place environment. Students are placed in a variety of locations appropriate to the nature and level of student experience. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Career Preparation for Programs of Study

Course Numbers First Time Taken:
CT.1500 | 12701121
Course Numbers Second Time Taken:
CT.1600 | 12701122
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Requires transcript review by counselor - at least one Level 2 or higher career and technical education course
Certifications: Microsoft Office Specialist certifications - Word Associate, Excel Associate, PowerPoint Associate, Word Expert, Excel Expert, Entrepreneurship and Small Business, and OSHA - 10

Career Preparation for Programs of Study provides additional opportunities for students to develop business and industry employment experiences, which must be related to the student's current program of study alongside advanced classroom instruction. This course provides a continuing focus on collaborative feedback between the employer, teacher, and student. Career Preparation for Programs of Study expands on Career Preparation General by increasing rigor, supporting student attainment of academic standards, and effectively preparing students for college and career success. Students will have the opportunity to complete the OSHA 10 Hour training program. Students must have district verified and approved employment that meets approved Training Station Guidelines.

Education and Training

Early Learning

Early Learning: Focus on early childhood education and examine the developmental milestones and skills related to child growth and learning. Explore the fascinating world of working with children ages zero to four.

Potential Careers: Assistant Childcare Provider, Toy Design Consultant, or Child Life Specialist (Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

Route 1: Recommended Course Sequence	
9th Grade	Principles of Education and Training (1 credit)
10th Grade	Child Development (1 credit)
11th Grade	Child Guidance (2 credits)
12th Grade	Practicum in Early Learning (2 credits)

Route 2: Recommended Course Sequence	
8th Grade	Principles of Human Services (1 credit)
9th Grade	Principles of Education and Training (1 credit)
10th Grade	Child Development (1 credit)
11th Grade	Child Guidance (2 credits)
12th Grade	Practicum in Early Learning (2 credits)

Principles of Human Services

Course Numbers:
0801 | 13024200
Credits: 1
Grade Placement: 9-11
Semesters: 2
Required Prerequisite: None

Principles of Human Services uses knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, and manage multiple adult roles. This course introduces students to careers in counseling and mental health, child development, family and community, personal care services and consumer services.

Principles of Education and Training

Course Numbers:
08071 | 13014200
Credits: 1
Grade Placement: 9-11
Semesters: 2
Required Prerequisite: None

This course covers a variety of topics including learning processes, education theory, classroom management, child development and lesson planning. Students will research careers and topics in education including teacher training, interview processes and ethics in the workplace. Students will experience field-based teaching observation opportunities and create a portfolio that will serve as a foundation for future education courses.

Child Development

Course Numbers: CT.0810 | 13024700
Credits: 1
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite: Principles of Human Services or Principles of Education and Training
Certification: Heartsaver CPR and First Aid certification

This course examines the development of children focusing on common physical, cognitive, emotional, and social developmental milestones from conception through adolescence. Students participate in a Reality Works Baby Simulator project, prepare nutritious kid-friendly snacks, investigate careers that work with children and have the opportunity to certify in infant, child and adult CPR.

Child Guidance (Internship)

Course Numbers: CT.B0820 | 13024800
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Child Development; eligibility verification at district level
Certifications: AAFCS Early Childhood Education credential, Child Development Associate (CDA) certification (begin two-year process to certify)

This course is an internship course that addresses the knowledge and skills related to child growth and guidance. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs.

Practicum in Early Learning (Internship)

Course Numbers: CT.B8081 | 13014520
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Child Guidance; eligibility verification at district level
Certifications: Educational Aide I, Child Development Associate (CDA) certification (complete two-year process to certify)

Practicum provides a unique experience that allows students the opportunity to participate in a learning environment that combines classroom instruction with real business and industry career experiences through an internship. Students will gain academic and career preparation to pursue high demand and high skill careers. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Practicum in Early Learning/Extended Practicum in Early Learning

PRAC-EXI-BL-EDTR
Course Numbers First Time Taken: CT.BX8081 | 13014525
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Child Guidance; eligibility verification at district level
Corequisite: Practicum in Early Learning; must be taken concurrently with Practicum in Early Learning and may not be taken as a stand- alone course.
Certifications: Educational Aide I, Child Development Associate (CDA) certification (complete two-year process to certify)

Teaching and Training

Teaching and Training: Teach and coach side-by-side with professional educators in a variety of school settings.

Potential Careers: Camp Assistant, Personal Trainer, or Elementary/Secondary Teacher
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

Route 1: Recommended Course Sequence	
9th Grade	Principles of Education and Training (1 credit)
10th Grade	Child Development (1 credit)
11th Grade	DC Introduction to the Teaching Profession (EDUC 1301) for Instructional Practices (2 credits)
12th Grade	Practicum in Education and Training-A/ DC introduction to Special Populations (EDUC 2301) for Practicum in Education and Training-B (2 credits)

Route 2: Recommended Course Sequence	
8th Grade	Principles of Human Services (1 credit)
9th Grade	Principles of Education and Training (1 credit)
10th Grade	Child Development (1 credit)
11th Grade	DC Introduction to the Teaching Profession (EDUC 1301) for Instructional Practices (2 credits)
12th Grade	Practicum in Education and Training-A/ DC introduction to Special Populations (EDUC 2301) for Practicum in Education and Training-B (2 credits)

Principles of Education and Training

Course Numbers:
08071 | 13014200
Credits: 1
Grade Placement: 9-11
Semesters: 2
Required Prerequisite: None

This course covers a variety of topics including learning processes, education theory, classroom management, child development and lesson planning. Students will research careers and topics in education including teacher training, interview processes and ethics in the workplace. Students will experience field-based teaching observation opportunities and create a portfolio that will serve as a foundation for future education courses.

Child Development

Course Numbers:
CT.0810 | 13024700
Credits: 1
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite: Principles of Human Services or Principles of Education and Training
Certification: Heartsaver CPR and First Aid certification

This course examines the development of children focusing on common physical, cognitive, emotional, and social developmental milestones from conception through adolescence. Students participate in a Reality Works Baby Simulator project, prepare nutritious kid-friendly snacks, investigate careers that work with children and have the opportunity to certify in infant, child and adult CPR.

DC Introduction to the Teaching Profession (EDUC 1301) for Instructional Practices

Course Numbers:
CT.D90907 | 13014400
Credits: 2
Grade Placement: 11-12
Semesters: 2 (EDUC 1301 over two semesters for 3.0 college credits)
Required Prerequisite: Principles of Education and Training and Child Development; TSIA-2 ELAR and Mathematics; eligibility verification at district level

The course provides students with opportunities to participate in early field observations at all levels of K-12 schools with varied and diverse student populations and provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introduction to and analysis of the culture of schooling and classrooms. Along with Tarleton State University requirements for course completion; students must meet additional NISD course expectations and internship responsibilities in order to receive credit for this course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

Practicum in Education and Training (Internship)

PRACI-BL-EDTR
Course Numbers First Time Taken:
CT.B0809 | 13014500
PRACII-BL-EDTR
Course Numbers Second Time Taken:
CT.B8191 | 13014510
Credits: 1
OR
PRAC-EXI-BL-EDTR (Extended)
Course Numbers First Time Taken:
CT.B8091 | 13014505
PRAC-EXII-BL-EDTR (Extended)
Course Numbers Second Time Taken:
CT.B8092 | 13014515
Credits:1.5

Grade Placement: 12
Semesters: 1 (Fall)
Required Prerequisite: Instructional Practices; eligibility verification at district level
Certifications: Educational Aide I

This course is an advanced field-based internship in which students work under the joint direction of their course instructor and a mentor teacher on an NISD Elementary, Middle or High School campus. Students learn to prepare and implement individualized instruction and group activities, prepare instructional materials, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, and other educational personnel. Paid internships may be available through local industry partners. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

DC Introduction to Special Populations (EDUC 2301) for Practicum in Education and Training-B

PRACI-BL-EDTR
Course Number:
CT.D908075 | 13014500
PRACII-BL-EDTR
Course Numbers Second Time Taken: CT.D908175 | 13014510
Credits: 1
OR
PRAC-EXI-BL-EDTR (Extended)
Course Number:
CT.D908085 | 13014505
PRAC-EXII-BL-EDTR (Extended)
Course Numbers Second Time Taken: CT.D908185 | 13014515
Credits: 1.5

Grade Placement: 12
Semesters: 1 (Spring) (EDUC 2301 for one semester for 3.0 college credits)
Required prerequisites: DC Introduction to the Teaching Profession (EDUC 1301) for Instructional Practices-A; eligibility verification at district level

The course provides students with opportunities to participate in early field observations of K-12 special populations and should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Must include a minimum of 16 contact hours of field experience internship hours in P-12 classrooms with special populations. Along with Tarleton State University requirements for course completion; students must meet additional NISD course expectations and internship responsibilities in order to receive credit for this course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

Engineering

STEM Academy

Located at Northwest High School

The STEM Academy aligns with the Engineering Program of Study.

STEM Academy: Bring your ideas to life while designing, building, and testing solutions for complex engineering challenges.

Potential Careers: App developer, energy auditor, or geospatial information technologist
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

Recommended Course Sequences				
	9th Grade	**10th Grade**	**11th Grade**	**12th Grade**
Science	STEM Honors Biology (SC.25H/AC)	STEM Honors Chemistry (SC.27H/AC)	STEM OnRamps Physics (D92OR/AC)	Advanced Science
Math	STEM Honors Geometry (M.112H/AC)	STEM OnRamps Algebra II (D94OR/AC)	Honors/AP Precalculus or OnRamps Precalculus	AP Calculus AB or BC
English	STEM Honors English I (ELA.1H/AC)	STEM Honors English II (ELA.2H/AC)	STEM OnRamps English III (D91OR/AC)	STEM English IV (0024/AC) **or** STEM English IV AP (ELA.2A/AC) **or** DC Technical & Business Writing (CT.D90025)
PLTW Academy Courses	Engineering Design Process (1 credit)	Engineering Design & Presentation (1 credit)	• Aerospace Design I **or** • Civil Engineering I **or** • Digital Electronics **or** • Advanced Eng Des Presentation (2 credits)	Engineering Design and Problem Solving (1 credit)
Optional STEM Courses	Honors Computer Science I (LOTE) (CT.849/AC) (1 credit)	Honors Computer Science II (LOTE) **or** Foundations of Cybersecurity	Honors Computer Science III **or** Foundations of Cybersecurity **or** Scientific Research and Design STEM	Practicum in Engineering **or** CTE Project Based Capstone STEM

Engineering Design Process

Course Numbers:
08413AC | 12756001
Credits: 1
Grade Placement: 9-10
Semesters: 2
Required Prerequisite: Algebra I or academy facilitator approval

PLTW Introduction to Engineering Design (IED)
This course teaches students a step-by-step design process to solve real-world problems. Students will practice identifying problems, planning solutions, creating prototypes, and improving their designs. The class focuses on creative problem-solving, learning from mistakes, keeping good records, weighing costs and benefits, and communicating ideas clearly.

Engineering Design and Presentation

Course Numbers:
CT.4203 | 13036500
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Algebra I and Engineering Design Process, or academy facilitator approval

PLTW Principles of Engineering (POE)
Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. This course is a required STEM course.

Advanced Engineering Design and Presentation

Course Numbers:
CT.4204 | 13036600
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Algebra I, Geometry, and Engineering Design Presentation, or academy facilitator approval

STEM Academy Robotics (FTC & FRC)
Through implementation of the design process, students will transfer advanced academic skills from previous courses to this course focused in mechatronics and robotics. Students will design, model, build and test prototypes. Course work will include robotic coding and building to meet an objective.

Aerospace Design I

Course Numbers:
CT.9108AC | 12756040
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Algebra I or academy facilitator approval

PLTW Aerospace Engineering (AE)
Students use the engineering design process to work on aerospace systems, focusing on building and improving prototypes. The course emphasizes combining ideas from aerodynamics, structures, and propulsion while thinking about the whole system. Students also practice weighing costs and benefits, keeping clear technical records, and solving problems like professionals.

Civil Engineering I

Course Numbers:
CT.9109AC | 12756050
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Algebra I and Intro to CAD or Principles of Applied Engineering; Engineering Design and Presentation, academy facilitator approval

PLTW Civil Engineering and Architecture (CEA)
Students use the engineering design process to work on civil systems and infrastructure. They practice analyzing, planning, modeling, and building prototypes while learning the basics of structures, materials, transportation, water systems, and the environment. The course focuses on weighing costs and benefits, keeping clear technical records, combining ideas from different fields, and communicating like professionals. Students will prepare for the Certified Entry-Level Python Programmer (PCEP) certification. Per TAC 74.11 students will demonstrate equivalent knowledge as determined by the school district for enrollment in this course.

Digital Electronics

Course Numbers:
CT.9116AC | 13037600
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Engineering Design and Presentation, Algebra I, Geometry, or academy facilitator approval

PLTW Digital Electronics
This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students explore the foundations of computing by engaging in circuit design processes to create combinational logic and sequential logic (memory) as electrical engineers do in industry. This course is an elective course and is in addition to the four math credits required of STEM Academy students. It will not be included in the calculation of the weighted GPA.

Honors Computer Science I (LOTE)

Course Numbers:
CT.0849 | 03580200
Weighted GPA: Level 2
Course Numbers:
CT.0849H | 03580200
Weighted GPA: Level 3
Credits: 1
Grade Placement: 9-12
Semesters: 2
Prerequisite or concurrent enrollment: Algebra I

This course will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will understand Computer Science through the study of technology operations, systems and concepts using TechSmart Curriculum. Course studies include the coding language Python, analyzing and designing algorithms, and demonstrating proficiency in digital citizenship. Professional skills, like collaboration and communication, portfolio building are key elements. This course may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA. Please note, not all colleges/universities accept Computer Science to fulfill world language requirements. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Scientific Research and Design

SRD-BL-STEM
Course Numbers: CT.B418AC | 13037200
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Required Prerequisite: Engineering Design Process (PLTW); Biology and Chemistry, Integrated Physics and Chemistry (IPC), or Physics; academy facilitator approval

PLTW Environmental Sustainability (ES)
In this PLTW course, students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply, and renewable energy. This course satisfies a high school science graduation requirement and will be included in the calculation of the weighted GPA.

Engineering Design & Problem Solving

Course Numbers: CT.9110AC | 13037300
Credits: 1
Grade Placement: 12
Semesters: 2
Required Prerequisite: Algebra I and Geometry, Engineering Design & Presentation; academy facilitator approval

PLTW Engineering Design and Development (EDD)
Students get hands-on experience using the engineering design process to solve real-world problems. They practice investigating, planning, building prototypes, and testing solutions, moving from clear-cut problems to more open-ended challenges. The course focuses on critical thinking, understanding ethics, and explaining why their solutions are the best among different options.

Practicum in Engineering

PRACI-BL-ENG
Course Numbers First Time Taken:
CT.B911 | 12756080
PRACII-BL-ENG
Course Numbers Second Time Taken:
CT.B922 | 12756090
PRACI-BL-ENG EXT
Course Numbers First Time Taken (Extended):
CT.B911 | 12756085
PRACII-BL-ENG EXT
Course Numbers Second Time Taken (Extended):
CT.B922 | 12756095
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Algebra I and Geometry; a minimum of two credits with at least one course in a Level 2 or higher course from the Engineering career cluster academy facilitator approval; eligibility verification at district level; see academy facilitator for more information.

NISD STEM Academy Internship
This capstone course gives students the chance to use their engineering knowledge in real-world situations. Students work on real projects, internships, or industry partnerships with professional mentors. The focus is on solving complex problems through design, innovation, and teamwork. Students practice technical skills like drafting, modeling, prototyping, and analyzing systems. The course also emphasizes professional behavior, workplace communication, and career readiness. This hands-on experience prepares students for college or engineering-related careers. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Additional Opportunities

Honors Computer Science II (LOTE)

Course Numbers:
CT.0859HAC | 03580300
Weighted GPA: Level 3 (Class of 2026 and beyond)
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Algebra I, Honors Computer Science I

This course includes exploration into creating, modifying, and testing the codes, forms and scripts that allow computer applications to run. Students will use the programming language Python and TechSmart Curriculum to work both individually and collaboratively to solve problems. Course studies will include locating, analyzing, processing and organizing data, comparing operating systems, software applications, hardware platforms and programming languages. Certifications will be earned in Certified Entry-Level Python Programmer (PCEP). This course may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA. Please note, not all colleges/universities accept Computer Science to fulfill world language requirements. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Honors Computer Science III

Course Numbers: CT.0869HAC | 03580350
Credits: 1
Grade Placement: 11-12
Semesters: 2
Weighted GPA: Level 3
Required Prerequisite: Honors Computer Science II

Students will build on previous knowledge and skills in this advanced computer science course. Course studies include comparing and contrasting high-level programming languages, model ethical acquisition and use of digital information, developing algorithms to solve problems.Students will use the programming language, Python, and TechSmart Curriculum to work both individually and collaboratively to solve problems. Students will have the opportunity to earn the Certified Associate in Python Programming (PCAP) certification. This course may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA. Please note, not all colleges/universities accept Computer Science to fulfill world language requirements. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Foundations of Cybersecurity

Course Numbers: CT.9115AC | 03580850
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Engineering Design Process and Honors Computer Science I; academy facilitator approval

This course introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy.

Career and Technical Education Project-Based Capstone

Science, Technology, Engineering, and Mathematics
PBCI-BL-STEM
Course Numbers First Time Taken: CT.B0711 | 12701101
PBCII-BL-STEM
Course Numbers Second Time Taken: CT.B0721 | 12701102
PBCIII-BL-STEM
Course Numbers Third Time Taken: CT.B0731 | 12701103

Health Science

Biomedical Sciences Academy

Located at Byron Nelson High School

The Biomedical Sciences Academy aligns with the Biomedical Science Program of Study.

Biomedical Sciences Academy: The Biomedical Sciences program of study focuses on the study of biology and medicine in order to introduce CTE learners to the knowledge and skills necessary to be successful in the healthcare field, such as researching and diagnosing diseases, pre-existing conditions, or other determinants of health.

Potential Careers: Patient care technician, DNA analyst, or microbiologist
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

	9th Grade	10th Grade	11th Grade	12th Grade
PLTW Academy Courses	 PLTW Principles of Biomedical Sciences (PBS) (1 credit)	 PLTW Human Body Systems (HBS) (1 credit)	 PLTW Medical Interventions (1 credit)	 PLTW Biomedical Innovation (1 credit)
Suggested Courses	Honors Biology	Honors Chemistry	DC Anatomy & Physiology, AP Biology, or AP Chemistry	Advanced Animal Science, Forensic Science, or Statistics

PLTW Principles of Biomedical Sciences

Course Numbers:
3100AC | N1302092
Credits: 1
Grade Placement: 9
Semesters: 2
Required Prerequisite: Academy facilitator approval

Principles of Biomedical Sciences is an exciting and rigorous course where students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to patients in a family medical practice, to tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems.

PLTW Human Body Systems

Course Numbers:
3105AC | N1302093
Credits: 1
Grade Placement: 10
Semesters: 2
Required Prerequisite: Principles of Biomedical Sciences; academy facilitator approval

Human Body Systems is a dynamic, lab based course that examines how our bodies function and maintain homeostasis. Students use interactive labs to investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries.

PLTW Medical Interventions

Course Numbers:
3106AC | N1302094
Credits: 1
Grade Placement: 11
Semesters: 2
Required Prerequisite: Human Body Systems; academy facilitator approval

Medical Interventions allows students to investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a “How-To” manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices and diagnostics.

PLTW Biomedical Innovation

Course Numbers:
3107AC | N1302095
Credits: 1
Grade Placement: 12
Semesters: 2
Required Prerequisite: Medical Interventions; eligibility verification at district level; see Health Science coordinator for more information.
Certifications: Biotechnology Aptitude and Competency Exam (BACE) and Basic Life Support (BLS) CPR

Biomedical Innovation offers students the opportunity to design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent research design project with a mentor from a university, medical facility, or research institution. An examination for BLS CPR and BACE are required by the end of the course. *Additional requirements and documents for this course.

Additional Opportunities

Practicum in Health Science (EMT & EKG) (Internship)

PRACI-BL-HST-EMT
First Time Taken Course Numbers:
CT.B0897 | 13020500
PRACII-BL-HST-EMT
Second Time Taken Course Numbers:
CT.B0997 | 13020510
Credits: 2
Grade Placement: 12
Semesters: 2
Required Prerequisite: Health Science Theory and Biology; or concurrently enrolled in Biomedical Innovation. Per TAC 74.11 students will demonstrate equivalent knowledge as determined by the school district for enrollment in this course; eligibility verification at district level
Recommended Prerequisite: Anatomy and Physiology
Certifications: Emergency Medical Technician- Basic, Certified EKG Technician and Adult/Child/ Infant BLS CPR

This course is designed to give students practical application of previously studied knowledge and skills in order to become an industry certified EMT. Practicum experiences can occur in a variety of clinical locations appropriate to the nature and level of experience. An examination for CPR, EKG and Emergency Medical Technician- Basic is required by the end of the course. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.
*Additional requirements and documents for this course. EMT certification only available in 2027-2028.

Practicum in Health Science (CCMA & EKG) (Internship)

PRACI-BL-HST-CMA
First Time Taken Course Numbers:
CT.B0988 | 13020500
PRACII-BL-HST-CMA
Second Time Taken Course Numbers:
CT.B0998 | 13020510
Credits: 2
Grade Placement: 12
Semesters: 2
Required Prerequisite: Health Science Theory and Biology or concurrently enrolled in Biomedical Innovation. Per TAC 74.11, students will demonstrate equivalent knowledge as determined by the school district for enrollment in this course; eligibility verification at district level
Recommended Prerequisite: Anatomy and Physiology
Certifications: Certified Clinical Medical Assistant, Certified EKG Technician, and Adult/Child/Infant BLS CPR

Practicum in Health Science is a course designed to give students practical application of previously studied knowledge and skills. Practicum provides a unique experience that allows students the opportunity to participate in a learning environment that combines classroom instruction with real business and industry career experiences in a professional medical setting. There is an emphasis on phlebotomy, CPR, vital signs, and nursing skills. An examination for CPR, CCMA and EKG is required by the end of the course. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte. *Additional requirements and documents for this course.

Health Science

Health Science: The health science program of study focuses on occupational and educational opportunities associated with diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study includes exploration of patient treatment and rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

Potential Careers: Clinical Medical Assistant, EKG Technician, Emergency Medical Technician, Nurse, Physician, or Infection Control Consultant.
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	Principles of Health Science (1 credit)	Health Science Theory (1 credit)	Anatomy and Physiology (1 credit)	Practicum in Health Science (CCMA or EMT) (2 credits)

Principles of Health Science

Course Numbers:
0890 | 13020200
Credits: 1
Grade Placement: 9-10
Semesters: 2
Required Prerequisite: None
Certifications: Heartsaver CPR

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry. Course content includes interpersonal relationships, anatomy and physiology, ethical/legal responsibilities, health care team concept, medical terminology, basic medical emergency practices, and investigation of various health service related careers. Students will have the opportunity to complete the OSHA 10 hour training program.

Health Science Theory

Course Numbers:
0895 | 13020400
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Biology and one credit in a course from the Health Science career cluster

This course will foster hands-on exploration through 15 two week modules using Paxton Patterson curriculum which will provide students the opportunity to increase their awareness of the various healthcare careers and skills needed to successfully prepare for the healthcare industry and work toward industry certifications in the future practicum courses.

Anatomy and Physiology

Course Numbers:
0211 | 13020600
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Required Prerequisite: Biology or Honors Biology and a second science credit (Chemistry or Physics)
Recommended Prerequisite: A course from the Health Science career cluster

Anatomy and Physiology is designed for students interested in biological, medical, and health oriented programs. Students will study the structures and functions of the human body. The body's systems will be investigated as to the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. The topics will be presented through an integration of biology, chemistry, and physics. In this laboratory course, the students conduct laboratory investigations, perform dissections, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. This course satisfies a high school science graduation requirement and will be included in the calculation of the weighted GPA.



Practicum in Health Science (EMT & EKG) (Internship)

PRACI-BL-HST-EMT
First Time Taken Course Numbers: CT.B0897 | 13020500
PRACII-BL-HST-EMT
Second Time Taken Course Numbers: CT.B0997 | 13020510
Credits: 2
Grade Placement: 12
Semesters: 2
Required Prerequisite: Health Science Theory and Biology; or concurrently enrolled in Biomedical Innovation. Per TAC 74.11 students will demonstrate equivalent knowledge as determined by the school district for enrollment in this course; eligibility verification at district level
Recommended Prerequisite: Anatomy and Physiology
Certifications: Emergency Medical Technician- Basic, Certified EKG Technician and Adult/Child/ Infant BLS CPR

This course is designed to give students practical application of previously studied knowledge and skills in order to become an industry certified EMT. Practicum experiences can occur in a variety of clinical locations appropriate to the nature and level of experience. An examination for CPR, EKG and Emergency Medical Technician- Basic is required by the end of the course. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.
*Additional requirements and documents for this course.EMT certification only available in 2027-2028.

Practicum in Health Science (CCMA & EKG) (Internship)

PRACI-BL-HST-CMA
First Time Taken Course Numbers:
CT.B0988 | 13020500
PRACII-BL-HST-CMA
Second Time Taken Course Numbers:
CT.B0998 | 13020510
Credits: 2
Grade Placement: 12
Semesters: 2
Required Prerequisite: Health Science Theory and Biology; or concurrently enrolled in Biomedical Innovation. Per TAC 74.11 students will demonstrate equivalent knowledge as determined by the school district for enrollment in this course; eligibility verification at district level
Recommended Prerequisite: Anatomy and Physiology
Certifications: Certified Clinical Medical Assistant, Certified EKG Technician, and Adult/Child/Infant BLS CPR

Practicum in Health Science is a course designed to give students practical application of previously studied knowledge and skills. Practicum provides a unique experience that allows students the opportunity to participate in a learning environment that combines classroom instruction with real business and industry career experiences in a professional medical setting. There is an emphasis on phlebotomy, CPR, vital signs, and nursing skills. An examination for CPR, CCMA and EKG is required by the end of the course. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte. *Additional requirements and documents for this course.

Additional Opportunities

Medical Terminology (Online only - outside of the school day)

Course Numbers:
0891 | 13020300
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: Students in the Health Science Program of Study only

Medical Terminology is a course that uses the human body as a guide to familiarize students with vocabulary concerning abbreviations, symbols, medical procedures and pathological conditions. Students will gain knowledge of medical terminology through the course of study by identifying word parts and the meanings of the words parts. This course is taken outside of the school day where students work at their own pace; however, the student must complete the course in the same semester in which it was started.

Hospitality and Tourism

Culinary Arts and Hospitality Academy

Located at Byron Nelson High School

The Culinary Arts and Hospitality Academy aligns with the Culinary Arts Program of Study.

Culinary Arts and Hospitality Academy: Craft innovative dishes alongside professional chefs using advanced industry equipment.

Potential Careers: Event and Catering Manager, Restaurant Manager, or Executive Chef
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	Principles of Hospitality & Tourism (1 credit)	Intro to Culinary Arts (1 credit)	Culinary Arts (2 credits)	Practicum in Culinary Arts/Extended Practicum in Culinary Arts (3 credits)

Culinary Arts Dual Credit Scheduling	College Course Title	College Hours
Freshman Year Principles of Hospitality and Tourism (1 HS Credit)	Principles of Food & Beverage Operations (HAMG 2301)	3
Sophomore Year Introduction to Culinary Arts (1 HS Credit)	Dining Room Service (RSTO 1304), Sanitation and Safety (CHEF 1305)	6
Junior Year Culinary Arts (2 HS Credits)	Basic Food Preparation (CHEF 1301), Purchasing for Hospitality (RSTO 1325), Fundamentals of Baking (PSTR 1301)	9
Senior Year Practicum in Culinary Arts/ Extended Practicum in Culinary Arts (3 HS Credits)	Intermediate Food Preparation (CHEF 2301), Principles of Healthy Cuisine (CHEF 1302)	6

Student will Complete the Culinary Arts I Certificate and have 24 hours toward their Culinary Arts AAS

Principles of Hospitality and Tourism A

Course Numbers:
7101AC | 13022200
Credits: 1
Grade Placement: 9
Semesters: 2
Certification: ServSafe Food Handlers

Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.

DC Principles of Food and Beverage Operations (HAMG 2301) for Principles of Hospitality and Tourism B

Course Numbers:
CT.D9710 | 13022200
Credits: 1
Grade Placement: 9
Semesters: 2

An overview of food and beverage management in various hospitality environments. Emphasizes cost controls from procurement to marketing & sales. Examines forecasting, menu planning and pricing, logistical support, production, purchasing, and quality assurance.

DC Sanitation and Safety and Dining Room Service (CHEF 1305 and RSTO 1304) for Introduction to Culinary Arts

Course Numbers:
7103AC | 13022550
Credits: 1
Grade Placement: 10
Semesters: 2
Recommended Prerequisite: Principles of Hospitality and Tourism

Sanitation and Safety is a study of personal cleanliness; sanitation practices in food preparation; causes, investigation, control of illness caused by food contamination (Hazard Analysis Critical Control Points); and work safety standards. Dining Room Service introduces the principles, concepts, and systems of professional table service. Topics include dining room organization, scheduling, and management of food- service personnel.

DC Basic Food Preparations, Purchasing for Hospitality, and Fundamentals of Baking (CHEF 1301, RSTO 1325, and PSTR 1301) for Culinary Arts

Course Numbers:
D7104AC | 13022600
Credits: 2
Grade Placement: 11
Semesters: 2
Required Prerequisite: Parent, counselor, principal, and college approval; CHEF 1305, RSTO 1304,and HAMG 2301

Basic Food Preparations is the study of the fundamental principles of food preparation and cookery to include Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism. Purchasing for Hospitality is the study of purchasing and inventory management of foods and other supplies to include development of purchase specifications, determination of order quantities, formal and informal price comparisons, proper receiving procedures, storage management, and issue procedures. Emphasis on product cost analysis, yields, pricing formulas, controls, and record keeping at each state of the purchasing cycle. Fundamentals of Baking covers the fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products.

DC Intermediate Food Preparation and Principles of Healthy Cuisine (CHEF 2301 and 1302) for Practicum in Culinary Arts/Extended Practicum in Culinary Arts (Internship)

Course Numbers:
CTD7200AC | 13022705
Credits: 3
Grade Placement: 12
Semesters: 2
Required Prerequisite: Culinary Arts; parent, counselor, principal, and college approval; eligibility verification at district level; see academy facilitator for more information; Fall: CHEF 1301 and CHEF 1305, Spring: CHEF 2301

Intermediate Food Preparation is the continuation of the previous food preparation course. Topics include the concept of pre-cooked food items, as well as scratch preparation. Covers full range of food preparation techniques. Master the identification of spices, herbs, oils, and vinegars; discuss and prepare various proteins; discuss and prepare various fruits, vegetables, and starches; discuss and prepare sandwiches and salads. Principles of Healthy Cuisine is an introduction to the principles of planning, preparation, and presentation of nutritionally balanced meals. Adaptation of basic cooking techniques to lower the fat and caloric content. Alternative methods and ingredients will be used to achieve a healthier cooking style. Modify recipes and substitute ingredients to reduce calories, sugar, fat, and sodium; create recipes using healthy techniques; identify common food allergies and special dietary needs; relate nutritional guidelines to diets and recipe production.

Human Services

Cosmetology Academy

Located at Northwest High School

The Cosmetology Academy aligns with the Cosmetology and Personal Care Services Program of Study.

Cosmetology Academy: Operate and experience a full-service interactive salon and spa environment.

Potential Careers: Licensed Cosmetologist, Licensed Esthetician, Salon/Spa Manager, or Dermatology/Medical Spa Assistant. (Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

			 	
Recommended Course Sequence	**No 9th Grade course offered.**	**No 10th Grade course offered.**	• Cosmetology I with Lab (3 credits) **and** • Intro to Cosmetology (1 credit)	Cosmetology II with Lab (3 credits)

Intro to Cosmetology

Course Numbers:
CT.0886AC | 13025100
Credits: 1
Grade Placement: 11-12
Semesters: 2

Students will coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation (TDLR) requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included. Students will receive 1 additional credit for Intro to Cosmetology which will be awarded on a Pass/Fail basis upon successful completion of Cosmetology I with Lab.

Cosmetology I with Lab

Course Numbers:
CT.9112AC | 13025210
Credits: 3
Grade Placement: 10-11
Semesters: 2

Students will coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation (TDLR) requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included. Students will receive 1 additional credit for Intro to Cosmetology which will be awarded on a Pass/Fail basis upon successful completion of Cosmetology I with Lab.

Cosmetology II with Lab

Course Numbers:
CT.9113AC | 13025310
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Cosmetology I
Certification: Cosmetology License and an opportunity for dual license in Cosmetology and Class A Barber with successful completion of Cosmetology II

Students will demonstrate proficiency in academic, technical, and practical knowledge and skills. The content is designed to provide the occupational skills required for licensure. Instruction includes advanced training in professional standards/employability skills; Texas Department of Licensing and Regulation (TDLR) rules and regulations; use of tools, equipment, technologies and materials; and practical skills.

Family and Community Services

Family and Community Services: Investigate complex social and emotional challenges to understand their effects on individuals, communities, and society.

Potential Careers: Community Health Worker, Family Therapist, or Social Worker
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

Route 1: Recommended Course Sequence	
9th Grade	Principles of Human Services (1 credit)
10th Grade	Family and Community Services (1 credit)
11th Grade	Counseling and Mental Health (1 credit)
12th Grade	Practicum in Human Services (2 credits)

Route 2: Recommended Course Sequence	
7th Grade	Lifetime Nutrition Wellness (.5 credit) / Interpersonal Studies (.5 credit)
8th Grade	Principles of Human Services (1 credit)
9th Grade	Family and Community Services (1 credit)
10th Grade	Counseling and Mental Health (1 credit)
11th Grade	Practicum in Human Services (2 credits)
12th Grade	Extended Practicum in Human Services (3 credits)

Principles of Human Services

Course Numbers:
0801 | 13024200
Credits: 1
Grade Placement: 9-11
Semesters: 2
Required Prerequisite: None

Principles of Human Services uses knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, and manage multiple adult roles. This course introduces students to careers in counseling and mental health, child development, family and community, personal care services and consumer services.

Family and Community Services

Course Numbers:
CT.0100 | 13024900
Credits: 1
Grade Placement: 9-12
Semesters: 2
Recommended Prerequisite:
Principles of Human Services

Family and Community Services is a laboratory course that prepares students for employment in counseling and mental health, family and community services, personal care, and consumer services. Students will plan, develop, implement, and evaluate community and service-learning activities that benefit individuals, families, or the community. Emphasis is placed on developing organizational and leadership skills.

Counseling and Mental Health

Course Numbers:
0893 | 13024600
Credits: 1
Grade Placement: 10-12
Semesters: 2
Recommended Prerequisite:
Principles of Human Services and Family and Community Services

Counseling and mental health investigates careers in counseling, mental health and social work. This class explores material in counseling and mental health as it relates to health & wellness across the life span. Students will study the psychological effects of chemical dependency, mental health issues and apply knowledge of ethical and legal responsibilities for counseling and mental health professionals.

Practicum in Human Services (Internship)

PRACI-BL-HUMS
Course Numbers First Time Taken:
CT.B0801 | 13025000
PRACII-BL-HUMS
Course Numbers Second Time Taken:
CT.B0885 | 13025010
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Eligibility verification at district level
Certification: Community Health Worker

Practicum provides a unique experience that allows students the opportunity to participate in a learning environment that combines classroom instruction with real business and industry career experiences through an internship. Students will gain academic and career preparation to pursue high demand and high skill careers. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Practicum in Human Services/Extended Practicum in Human Services (Internship)

PRAC-EXI-BL-HUMS
Course Numbers First Time Taken:
CT.B876AC | 13025005
PRAC-EXII-BL-HUMS
Course Numbers Second Time Taken:
CT.B0886 | 13025015
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Coordinator approval; eligibility verification at district level.
Certification: Community Health Worker

See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.



Information Technology

Networking Systems

Networking Systems: Design, install, and troubleshoot complex network systems.

Potential Careers: Helpdesk Technician, Cloud Architect, or Computer Hardware Engineer
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	**Discontinued - No 9th Grade course offered**	**Discontinued - No 10th grade course offered**	**Discontinued - No 11th grade course offered**	Practicum in Information Technology (2 credits) Independent Study in Technology Applications (1 credit)

Independent Study in Technology Applications

INDSTUDY-IT
Course Numbers:
0834 | 03580900
Credits: 1
Grade Placement: 12
Semesters: 2
Required Prerequisite: Eligibility verification at district level
Recommended Prerequisite: A minimum of one credit from the courses in the Information Technology career cluster

In Independent Study in Technology Applications, students will work in a simulated work environment in the field of IT to complete large scale projects designed by the teacher and mentor. Students will identify a problem in IT and work to research, create solutions and design a product or service that solves the problem. The final presentation will include a project portfolio presented to a panel of professionals using formal presentation skills. Students will work with their teacher, mentor and coordinator to plan their year.

Practicum in Information Technology

PRACI-BL-IT
Course Numbers First Time Taken:
CT.B0833 | 13028000
PRACII-BL-IT
Course Numbers Second Time Taken:
CT.B0843 | 13028010
Credits: 2
Grade Placement: 12
Semesters: 2
Required Prerequisite: A minimum of two high school information technology (IT) courses; eligibility verification at district level

Professional skills, like critical thinking and problem solving, combined with IT experience and knowledge will be a key part of this course. The course could include an on-campus internship, off-campus internship or mentorship with an industry professional. Students will work with their mentor to identify a problem in the IT field, conduct research, create a solution, develop a strategy to address the problem, then design a product or service that solves the problem. A project portfolio will be presented to a panel of professionals using formal presentation skills. Students will also continue to develop a professional portfolio showcasing their accomplishments, knowledge and skills, certifications and artifacts. Students will work with their teacher, mentor and coordinator to plan their year.



Programming and Software Development

Programming and Software Development: Work individually and in teams to develop and engineer the code that powers the modern world.

Potential Careers: Tech support, Java developer, or network engineer
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	Honors Computer Science I* (1 credit)	Honors Computer Science II* (1 credit)	Honors Computer Science III* (1 credit)	Practicum in Information Technology (2-3 credits) Independent Study in Technology Applications (1 credit)

*NOTE: Computer Science I, II, and III satisfy state requirements for Languages other than English (LOTE)

Honors Computer Science I

Course Numbers:
CT.0849H | 03580200
Weighted GPA: Level 3
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite or concurrent enrollment:
Algebra I

This course will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will understand Computer Science through the study of technology operations, systems and concepts using TechSmart Curriculum. Course studies include the coding language Python, analyzing and designing algorithms, and demonstrating proficiency in digital citizenship. Professional skills, like collaboration and communication, portfolio building are key elements. Students will prepare for the Certified Entry-Level Python Programmer (PCEP) certification. This course may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA. Please note, not all colleges/ universities accept Computer Science to fulfill world language requirements. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Honors Computer Science II

Course Numbers:
CT.0859H | 03580300
Weighted GPA: Level 3 (Class of 2026 and beyond)
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: Algebra I, Honors Computer Science I

This course includes exploration into creating, modifying, and testing the codes, forms and scripts that allow computer applications to run. Students will use the programming language Python and TechSmart Curriculum to work both individually and collaboratively to solve problems. Course studies will include locating, analyzing, processing and organizing data, comparing operating systems, software applications, hardware platforms and programming languages. Certifications will be earned in Certified Entry Level Python Programmer (PCEP). This course may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA. Please note, not all colleges/universities accept Computer Science to fulfill world language requirements. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Honors Computer Science III

Course Numbers:
CT.0869H | 03580350
Credits: 1
Grade Placement: 11-12
Semesters: 2
Weighted GPA: Level 3
Required Prerequisite: Computer Science II

Students will build on previous knowledge and skills in this advanced computer science course. Course studies include comparing and contrasting high-level programming languages, model ethical acquisition and use of digital information, developing algorithms to solve problems. Students will use the programming language, Python, and TechSmart Curriculum to work both individually and collaboratively to solve problems. Students will have the opportunity to earn the Certified Associate in Python Programming (PCAP) certification. This course may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Practicum in Information Technology

PRACI-BL-IT
Course Numbers First Time Taken:
CT.B0833 | 13028000
PRACII-BL-IT
Course Numbers Second Time Taken:
CT.B0843 | 13028010
Credits: 2
Grade Placement: 12
Semesters: 2
Required Prerequisite: A minimum of two high school information technology (IT) courses; eligibility verification at district level

Professional skills, like critical thinking and problem solving, combined with IT experience and knowledge will be a key part of this course. The course could include an on-campus internship, off-campus internship or mentorship with an industry professional. Students will work with their mentor to identify a problem in the IT field, conduct research, create a solution, develop a strategy to address the problem, then design a product or service that solves the problem. A project portfolio will be presented to a panel of professionals using formal presentation skills. Students will also continue to develop a professional portfolio showcasing their accomplishments, knowledge and skills, certifications and artifacts. Students will work with their teacher, mentor and coordinator to plan their year.

Independent Study in Technology Applications

INDSTUDY-IT
Course Numbers: 0834 | 03580900
Credits: 1
Grade Placement: 12
Semesters: 2
Required Prerequisite: Eligibility verification at district level is required.
Recommended Prerequisite: A minimum of one credit from the courses in the Information Technology career cluster

In Independent Study in Technology Applications, students will work in a simulated work environment in the field of IT to complete large scale projects designed by the teacher and mentor. Students will identify a problem in IT and work to research, create solutions and design a product or service that solves the problem. The final presentation will include a project portfolio presented to a panel of professionals using formal presentation skills.
Students will work with their teacher, mentor and coordinator to plan their year.



Advanced Manufacturing

Advanced Manufacturing: Learn manufacturing processes and technology - including robotics, electrical controls, pneumatics and hydraulics - used to solve problems in a modern production environment.

Potential Careers: Engineering technician, metal model maker, or mechanical engineer
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	Principles of Manufacturing (1 credit)	Manufacturing Engineering Technology I (1 credit)	Manufacturing Engineering Technology II (1 credit)	Practicum in Manufacturing (2 credits)

Principles of Manufacturing

Course Numbers:
CT.0892 | 13032200
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite:
None

This course is an introduction to manufacturing processes and technology used to solve problems. Students will learn about the tools, technology and processes used to influence manufacturing practices. Students will learn sketching techniques to create multi-view drawings and interpret blueprint drawings including dimensions, notes, symbols, sections and auxiliary views. Professional employability skills like teamwork, communication, safety and portfolios will be a key element in this course. Students will have the opportunity to complete the OSHA 10 hour training program and be certified in C-101 Certified Industry 4.0 Associate_Basic Operations.

Manufacturing Engineering Technology I

Course Numbers:
CT.4105 | 13032900
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: None
Recommended Prerequisite:
Principles of Manufacturing

In this course, students will gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how they are applied to manufacturing. Course studies will include working in CAD to complete designs, writing programmable logic controls for robot systems, designing products using a CNC machine/lathe, working with mechanical, fluid, thermal and electrical systems. Students will understand quality-control systems through the use of industrial standards and Pareto charts. Professional employability skills like teamwork, communication, safety and portfolios will be a key element in this course. Students will have the opportunity to earn the SolidWorks CSWA certification.

Manufacturing Engineering Technology II

Course Numbers:
CT.4106 | 13032950
Credits: 1
Grade Placement: 10-12
Semesters: 2
Weighted GPA: Level 2
Required Prerequisite:
Manufacturing Engineering Technology I
Recommended Prerequisite:
Algebra II, Honors Computer Science I, or Physics

Students will reinforce, apply, and transfer knowledge and skills to develop systems using electrical controls and pneumatics or hydraulics devices, troubleshoot programmable logic controls for robot systems and develop a product on a CNC machine/lathe. Students will have the opportunity to learn and program precision robotics on a FANUC Robot. This course counts as a Math credit. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Practicum in Manufacturing

Course Numbers First Time Taken:
CT.B0992 | 13033000
Course Numbers Second Time Taken:
CT.B0993 | 13033010
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: A minimum of two credits with at least one course in a Level 2 or higher course from the Manufacturing career cluster.

This course is designed to provide practical application of knowledge and skills gained in prior courses. Students will work to build a professional portfolio showcasing their knowledge and skills while working with their instructor and industry partner, when applicable, to plan a large-scale project planning, managing and performing the processing of materials into final products for the course.

Practicum in Manufacturing/ Extended Practicum in Manufacturing

Course Numbers First Time Taken:
CT.BX992 | 13033005
Course Numbers Second Time Taken:
CT.BX993 | 13033015
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Eligibility verification at district level; a minimum of two credits with at least one course in a Level 2 or higher course from the Manufacturing career cluster.

This course is designed to provide practical application of knowledge and skills gained in prior courses. Students will work to build a professional portfolio showcasing their knowledge and skills while working with their instructor and industry partner, when applicable, to plan a large-scale project planning, managing and performing the processing of materials into final products for the course. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.



Transportation, Distribution, and Logistics

Aviation Academy

Located at Eaton High School

The Aviation Academy aligns with three Programs of Study:

- **Aviation Maintenance**
- **Aviation (Flight)**
- **Drone (Unmanned Flight)**

Aviation Academy: Explore modern military and commercial aviation in a high-demand, high-wage field meeting Federal Aviation Administration (FAA) standards.

Potential Careers: Aircraft maintenance technician, pilot, drone (UAS) pilot, airworthiness inspector, or air traffic controller (Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

	1st Year	2nd Year	3rd Year	4th Year
Aviation Maintenance* (TCCD)	Introduction to Aerospace and Aviation/ DC Intro to Aviation (AIRP 1313) [1 HS Credit]	Introduction to Aircraft Technology/ DC Intro to Aviation (AERM 1101) [1 HS Credit]	DC Aircraft Airframe Technology/Advanced Transportation Systems Laboratory (Dual Credit) [3 HS Credits]	DC Aircraft Powerplant Technology/Advanced Transportation Systems Laboratory (Dual Credit) [3 HS Credits]
Drone (Unmanned Flight)	Introduction to Aerospace and Aviation/ DC Intro to Aviation (AIRP 1313) [1 HS Credit]	Introduction to Aircraft Technology/ DC Intro to Aviation (AERM 1101) [1 HS Credit]	Introduction to Unmanned Aerial Vehicles [1 HS Credit]	Practicum in Transportation Systems First Time Taken [2 HS Credits]
Aviation (Flight) (EHS/TCCD)**	Introduction to Aerospace and Aviation/ DC Intro to Aviation (AIRP 1313) [1 HS Credit]	Introduction to Aircraft Technology/ DC Intro to Aviation (AERM 1101) [1 HS Credit]	Aviation Ground School [1 HS Credit] (EHS)	**Private Pilot (TCCD)** Practicum in Transportation Systems/Extended Practicum in Transportation Systems First Time Taken (Dual Credit) [3 HS Credits] **Private Pilot (Simulator)** Practicum in Transportation Systems First Time Taken [2 HS Credits] (EHS)

Seniors in the Aviation Academy wanting to take PBC/senior release must have completed all online dual credit courses, edgenuity courses for original credit, or edgenuity Academic Coaching Program (ACP) courses. Dual Credit Private Pilot Students must also pass the FAA Private Pilot written exam administered in quarter two of their senior year.

Dual Credit Courses offered throughout the program will be determined by the college in partnership with the academy facilitator.

* During their junior and senior years, students in the Aviation Mechanics Pathway will take two dual credit courses each semester. Completion of TSIA-2 ELAR and Mathematics is required for TCC enrollment. In addition, many of these courses require a high-stakes FAA regulated exam that must be passed in order to pass the class.

** During their senior year, students in the TCC Private Pilot Pathway will take two dual credit courses each semester. Completion of TSIA-2 ELAR and Mathematics may be required for TCC enrollment. In addition, many of these courses require a high-stakes FAA regulated exam that must be passed in order to pass the class.

Introduction to Aerospace and Aviation - A

Course Numbers: CT.9109 | N1304672
Credits: .5
Grade Placement: 9-10
Semesters: 1
Required Prerequisite: Aviation Academy students only; academy facilitator approval

Provides the foundation for advanced exploration in the areas of professional pilot, aerospace engineering, and unmanned aircraft systems. Students will learn about the history of aviation, from Leonardo da Vinci's ideas about flight to the Wright brothers and the space race.

DC Introduction to Aviation (AIRP 1313) for Introduction to Aerospace and Aviation - B

Course Numbers: CT.D91092 | N1304672
Credits: .5
Grade Placement: 9-10
Semesters: 1

A study of the historical development of the aviation industry, including key events in civil, military, and space exploration and an overview of legislation relating to aviation.

Introduction to Aircraft Technology - A

Course Numbers: CT.9104AC | 13039350
Credits: .5
Grade Placement: 9-12
Semesters: 1
Required Prerequisite: Aviation Academy students only; academy facilitator approval.
Mandatory for all Academy of Aviation students.

Students will develop an understanding of the theory of operation of aircraft airframes, power plants, and associated maintenance and repair practices. Maintenance and repair practices include knowledge of the function, diagnosis, and service of general curriculum subjects, airframe structures, airframe systems and components, power plant theory and maintenance, and powerplant systems and components of aircraft.

DC Introduction to Aviation (AERM 1101) for Introduction to Aircraft Technology - B

Course Numbers: CT.D91042 | 13039350
Credits: .5
Grade Placement: 9-12
Semesters: 1

An overview of aviation maintenance including the history of aviation, the mechanic's roles and duties, and nomenclature of aircraft and safety.

Practicum in Transportation Systems

PRACI-BL-TDL
Course Numbers First Time Taken: CT.B915AC | 13040450
PRACII-BL-TDL
Course Numbers Second Time Taken: CT.B925AC | 13040460
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Facilitator approval; eligibility verification at district level. See academy facilitator for more information.
Recommended Prerequisite: Introduction to Aircraft Technology

Students will develop an understanding of the theory of operation of aircraft airframes, power plants, and associated maintenance and repair practices. Maintenance and repair practices include knowledge of the function, diagnosis, and service of general curriculum subjects, airframe structures, airframe systems and components, power plant theory and maintenance, and powerplant systems and components of aircraft.

DC Practicum in Transportation Systems/Extended Practicum in Transportation Systems

PRAC-EXI-BL-TDL
Course Numbers First Time Taken:
CT.D916AC | 13040455
PRAC-EXII-BL-TDL
Course Numbers Second Time Taken:
CT.D918AC | 13040465
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Facilitator approval; eligibility verification at district level; see academy facilitator for more information.
Certification: Any of the Transportation Systems career cluster certifications that correlate to the student's pathway.

Extended Practicum in Transportation Systems is designed to give students supervised practical application of knowledge and skills. The course will consist of several Dual Credit course options taken each semester from Tarrant County College and the Center for Excellence in Aviation, Transportation and Logistics.

Career and Technical Project-Based Capstone

Transportation, Distribution, and Logistics
PBCI-BL-TDL
Course Numbers First Time Taken:
CT.B0925 | 12701101
PBCII-BL-TDL
Course Numbers Second Time Taken:
CT.B0926 | 12701102
PBCIII-BL-TDL
Course Numbers Third Time Taken:
CT.B0927 | 12701103
Credits: 1
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Facilitator approval

Project-Based Capstone is a course for students to research a real-world problem. Students are matched with a mentor from the business or professional community to develop an original project on a topic related to career interests. Students use scientific methods of investigation to conduct in-depth research, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Principles of Transportation Systems

Course Numbers: CT.9102AC | 13039250
Credits: 1
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Facilitator approval

Students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the transportation industry. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

Aviation Ground School

Course Numbers: CT.9209 | N1304675
Credits: 1
Grade Placement: 11-12
Semesters: 2
Prerequisite: Facilitator approval

This course is designed to extend student interests in all aspects of aviation while preparing students to take the formal ground requisite exam for the Federal Aviation Administration (FAA) FAA Airman Knowledge Test which is required to obtain a private pilot's license. The rigor of the course challenges students with complex aeronautical, engineering, weather, management and judgment concepts. Rules, regulations, obligations, and commitments to discipline and focus are foundational throughout the course. The ability to grasp flight without actually flying a real aircraft extends well beyond the classroom as students learn navigation, weather science, attention to detail (mathematical fuel and load planning), health and mental well-being related to flight planning and piloting aircraft.

Introduction to Unmanned Aerial Vehicles (UAV)

Course Numbers: CT.9106 | N1304670
Credits: 1
Grade Placement: 11-12
Semesters: 2
Prerequisite: Intro to Aerospace & Aviation, Intro to Aircraft Technology

The Introduction to Unmanned Aerial Vehicles (UAV) Flight course is designed to prepare students for entry-level employment or continuing degrees in piloting UAV operations. This course is designed to instruct students in UAV flight navigation, industry laws and regulations, and safety regulations.

DC Aircraft Airframe Technology/Advanced Transportation Systems Laboratory

Course Numbers: CT.D94210 | 13039410
Credits: 3
Grade Placement: 11-12
Semesters: 2
Prerequisite: Introduction to Aircraft Tech; academy facilitator, parent, counselor, principal, and college approval

Students will develop an understanding of the theory of operation of aircraft airframes and associated maintenance and repair practices. Airframe maintenance and repair practices include knowledge of the function, diagnosis, and service of airframe structures, systems, and components of aircraft. The course will consist of several Dual Credit course options taken each semester from Tarrant County College and the Center for Excellence in Aviation, Transportation and Logistics. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Aircraft Powerplant Technology/Advanced Transportation Systems Laboratory

Course Numbers:
CT.D4212AC | 13039510
Credits: 3
Grade Placement: 11-12
Semesters: 2
Prerequisite: Introduction to Aircraft Tech; academy facilitator and College Approval

Students will develop an understanding of the theory of operation of aircraft powerplants and associated maintenance and repair practices. Powerplant maintenance and repair practices include knowledge of the theory, function, diagnosis, and service of powerplant, systems, and components of aircraft. The course will consist of several Dual Credit course options taken each semester from Tarrant County College and the Center for Excellence in Aviation, Transportation and Logistics.

Aviation Academy Dual Credit Courses

Tarrant County College – Professional Pilot and Aviation Maintenance Technology Courses

The following information is from the Tarrant County College, Erma C. Johnson Hadley Northwest Center of Excellence for Aviation, Transportation and Logistics website. Students are encouraged to work with their academy facilitator and the TCC staff to ensure that the courses they choose match their academic goals. Please visit the TCC website for a complete list of courses, program requirements, and fees.

Some courses may not be available each semester.

Professional Pilot Dual Credit Courses

Private Flight	
Course Number: AIRP 1215 **TCC Semester Hours:** 2 **Lecture Hours:** 0 **Laboratory Hours:** 4	Flight and ground training to prepare student for completion of the Federal Aviation Administration Private Pilot Certificate. See the TCC website for information concerning projected flight costs.
Intermediate Flight	
Course Number: AIRP 1255 **TCC Semester Hours:** 2 **Lecture Hours:** 0 **Laboratory Hours:** 5	Provides students with flight hours and skills necessary to fulfill cross-country hours required for the Federal Aviation Administration Commercial Pilot certificate. See the TCC website for information concerning projected flight costs.
Air Navigation	
Course Number: AIRP 1301 **TCC Semester Hours:** 3 **Lecture Hours:** 3 **Laboratory Hours:** 0	Instruction in visual flight rules navigation in the National Airspace System. Topics include, flight computers, plotters, navigation logs, and publications.
Aviation Meteorology	
Course Number: AIRP 1307 **TCC Semester Hours:** 3 **Lecture Hours:** 3 **Laboratory Hours:** 0	Coverage of meteorological phenomena affecting aircraft flight. Topics include basic concepts of aviation meteorology in the study of temperature, pressure, moisture, stability, clouds, air masses, fronts, thunderstorms, icing, and fog. Also includes analysis and use of weather data for flight planning.

Private Pilot Ground School

Course Number: AIRP 1317
TCC Semester Hours: 3
Lecture Hours: 3
Laboratory Hours: 0

Ground school for the Federal Aviation Administration Private Pilot Certificate, providing the student with the necessary aeronautical knowledge that can be used for Private Pilot certification. Topics include principles of flight, radio procedures, weather, navigation, aerodynamics, and Federal Aviation Administration regulations.

Advanced Air Navigation

Course Number: AIRP 1341
TCC Semester Hours: 3
Lecture Hours: 3
Laboratory Hours: 0

Skill development in advanced airplane systems and performance including radio navigation and cross-country flight planning. Includes an introduction to instrument flight operations and navigation.

Aerodynamics

Course Number: AIRP 1343
TCC Semester Hours: 3
Lecture Hours: 3
Laboratory Hours: 0

Study of the physical laws of flight. Topics include physical terms and the four forces of flight. Aircraft design, stability control, and high-speed flight characteristics are also included.

Aviation Safety

Course Number: AIRP 1345
TCC Semester Hours: 3
Lecture Hours: 3
Laboratory Hours: 0

A study of the fundamentals essential to the safety of flight. A survey of the aviation industry including decision-making factors, accident reporting, accident investigation, air traffic systems, aircraft technologies, and accident case studies.

Instrument Ground School

Course Number: AIRP 1451
TCC Semester Hours: 4
Lecture Hours: 4
Laboratory Hours: 0
Recommended Corequisite: AIRP 2250

A study of basic instrument radio and navigation fundamentals used in instrument flight. Topics include a description and practical use of navigation systems and instruments, charts used for instrument flight, and Federal Aviation Administration regulations.

Aircraft Systems

Course Number: AIRP 2333
TCC Semester Hours: 3
Lecture Hours: 3
Laboratory Hours: 0

Study of the theory, operation, and application of pneumatic, hydraulic, electrical, fuel, environmental, protection, and warning systems. Emphasis on subsystems and control systems.

Commercial Ground School

Course Number: AIRP 2337
TCC Semester Hours: 3
Lecture Hours: 3
Laboratory Hours: 0

A study of advanced aviation topics used for Federal Aviation Administration certification at the commercial pilot level. Preparation for the Federal Aviation Administration Airman Certification Standards for Commercial Pilot Certificate.

Instrument Flight

Course Number: AIRP 2250
TCC Semester Hours: 2
Lecture Hours: 0
Laboratory Hours: 4

Preparation for the Federal Aviation Administration Airman Certification Standards for the Instrument Rating. See the TCC website for information concerning projected flight costs.

Aviation Maintenance Technology Dual Credit Courses

Weight and Balance

Course Number: AERM 1205
TCC Semester Hours: 2
Lecture Hours: 1
Laboratory Hours: 2
Required Prerequisite/Corequisite: AERM 1208

An introduction to Federal Aviation Administration (FAA) required subjects relating to the weighing of aircraft, the performance of weight-and-balance calculations, and appropriate maintenance record entries.

Federal Aviation Regulations

Course Number: AERM 1208
TCC Semester Hours: 2
Lecture Hours: 1
Laboratory Hours: 3

A course in the use and understanding of the Federal Aviation Administration (FAA) and aircraft manufacturers' publications, forms, and records; and the exercise of mechanic privileges within prescribed limitations. Regulations and research via CD-ROM.

Shop Practices

Course Number: AERM 1303
TCC Semester Hours: 3
Lecture Hours: 2
Laboratory Hours: 3

An introduction to shop safety, the correct use of hand tools, equipment and precision measurement, identification of aircraft hardware, and the fabrication of fluid lines and tubing. Emphasis on procedures for testing, heat treating, and inspection of aircraft structures.

Ground Operations

Course Number: AERM 1310
TCC Semester Hours: 3
Lecture Hours: 2
Laboratory Hours: 3

An introductory course in fuels, servicing methods, safety procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning, and corrosion control.

Basic Electricity

Course Number: AERM 1314
TCC Semester Hours: 3
Lecture Hours: 2
Laboratory Hours: 4

A study of aircraft electrical systems and their requirements including the use of the ammeter, voltmeter, and ohmmeter; series and parallel circuits; inductance and capacitance; magnetism; converting alternating current (AC) to direct current (DC); controlling devices; maintenance and servicing of aircraft batteries; and reading and interpreting aircraft electrical diagrams to include solid state devices and logic functions. Fundamentals of safety are also addressed.

Aviation Science

Course Number: AERM 1315
TCC Semester Hours: 3
Lecture Hours: 2
Laboratory Hours: 2

Fundamentals of mathematics, physics, and drawing as they apply to aircraft principles and operations as required by the Federal Aviation Administration (FAA) for airframe and powerplant mechanics.

Aircraft Propellers

Course Number: AERM 1340
TCC Semester Hours: 3
Lecture Hours: 2
Laboratory Hours: 2

Fundamentals of propeller design, function and construction. Skill development in inspection, servicing, and repair of fixed-pitch, constant-speed, and feathering propellers and governing systems. Instruction in removal, balancing, installation of propellers, and safety procedures are also addressed.

Aircraft Reciprocating Engines

Course Number: AERM 1344
TCC Semester Hours: 3
Lecture Hours: 2
Laboratory Hours: 3

Reciprocating engines, their development, operating principles, and theory. Includes engine instruments, lubrication, and exhaust systems. Also addresses fundamentals of safety.

Aircraft Turbine Engine Theory

Course Number: AERM 1351
TCC Semester Hours: 3
Lecture Hours: 2
Laboratory Hours: 3

General principles of theory, history, and servicing of turbine engines to include lubrication, instrumentation, auxiliary power units, and exhaust systems. Fundamentals of safety procedures are also addressed.

Aircraft Powerplant

Course Number: AERM 1456
TCC Semester Hours: 4
Lecture Hours: 2
Laboratory Hours: 6

General principles of theory, operation, and maintenance of power plant electrical systems including ignition, starting, and fire protection systems. Fundamentals of safety procedures will also be addressed.



Transportation, Automation and Logistics Academy (TALA)

Located at Davis High School

Transportation, Automation and Logistics Academy: Prepare for the future of transportation! Students will gain hands-on experience diagnosing, maintaining, and repairing automotive systems while learning industry-standard safety procedures, emerging technologies, and essential employability skills. Students will train in state-of-the-art facilities, explore technologies associated with electric, hybrid, and autonomous vehicles, and apply their technical and professional skills through advanced coursework and supervised practicum experiences.

Potential Careers: Automotive service technician/mechanic, autonomous fleet specialist, diesel service technician, fleet maintenance technician, automotive service manager/first-line supervisor, automotive shop or business owner (Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

				
Recommended Course Sequence	Automotive Basics (1 credit)	Automotive Technology I: Maintenance and Light Repair (2 credits) **Available 2028-2029**	Automotive Technology II: Automotive Service (2 credits) **Available 2029-2030**	Practicum in Transportation Systems (2 credits) OR Practicum + Extended Practicum **Available 2030-2031**

Automotive Basics

Course Numbers: CT.0200 | 13039550
Credits: 1
Grade Placement: 9-10
Semesters: 2
Required Prerequisite: None

Automotive Basics includes knowledge of basic automotive systems and the theories and principles of the components that make up each system, including how to service these systems. The course addresses applicable safety and environmental rules and regulations. Students gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems while reinforcing, applying, and transferring academic knowledge and skills to relevant activities, problems, and settings. The course emphasizes safety, tool identification, proper tool use, and employability skills.

Certification opportunities: ASE Refrigerant Recovery and Recycling

Automotive Technology I: Maintenance and Light Repair

Course Numbers: CT.0201 | 13039600
Credits: 2
Grade Placement: 10-11
Semesters: 2
Required Prerequisite: None
Recommended Prerequisite: Automotive Basics

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. The course addresses applicable safety and environmental rules and regulations. Students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. The course emphasizes safety, tool identification, proper tool use, and employability skills.

Certification opportunities: ASE Entry-Level Automobile Brakes (BR); ASE Entry-Level Automobile Suspension and Steering (SS)

Automotive Technology II: Automotive Service

Course Numbers: CT.0202 | 13039700
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Automotive Technology I: Maintenance and Light Repair

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. The course addresses applicable safety and environmental rules and regulations. Students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. The course emphasizes safety, tool identification, proper tool use, and employability skills.

Certification opportunities: ASE Entry-Level Automobile Electronic/Electrical Systems (EE); ASE Entry-Level Automobile Heating and Air Conditioning (AC)

Practicum in Transportation Systems

PRACI-BL-TDL
Course Numbers First Time Taken:
CT.B915AC | 13040450
PRACII-BL-TDL
Course Numbers Second Time Taken:
CT.B925AC | 13040460
Credits: 2
Grade Placement: 12
Semesters: 2
Required Prerequisite: Automotive Technology II: Automotive Service; eligibility verification at district level

Practicum in Transportation Systems provides students with a work-based learning experience that connects classroom instruction to careers in the automotive and transportation industry. Through supervised internships or other approved workplace experiences with industry partners, students apply technical automotive knowledge and skills while developing employability skills, workplace safety practices, and an understanding of industry expectations. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Certification opportunities: ASE Entry-Level Automobile Automatic Transmission/Transaxle (AT); ASE Entry-Level Automobile Engine Performance (EP); ASE Entry-Level Automobile Engine Repair (ER); ASE Entry-Level Automobile Manual Drive Train and Axles (MD)

Practicum in Transportation Systems/Extended Practicum in Transportation Systems

PRAC-EXI-BL-TDL
Course Numbers First Time Taken:
CT.B916AC | 13040455
PRAC-EXII-BL-TDL
Course Numbers Second Time Taken:
CT.B926AC | 13040465
Credits: 3
Grade Placement: 12
Semesters: 2
Required Prerequisite: Automotive Technology II: Automotive Service; eligibility verification at district level

This capstone combines Practicum in Transportation Systems with the concurrent Extended Practicum to provide additional time for supervised practical application of technical and professional skills. Experiences may include school-based laboratory work, internships, mentorships, independent study, or other work-based learning appropriate to the student's career goals. See the Internships section of this guide for additional information, or visit our website at www.nisdtx.org/cte.

Certification opportunities: ASE Entry-Level Automobile Automatic Transmission/Transaxle (AT); ASE Entry-Level Automobile Engine Performance (EP); ASE Entry-Level Automobile Engine Repair (ER); ASE Entry-Level Automobile Manual Drive Train and Axles (MD)

Additional CTE Electives

Professional Communications

Course Numbers:
0046 | 13009900
Credits: .5
Grade Placement: 9-12
Semesters: 1
Required Prerequisite: None

This course blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research. This course satisfies a speech credit or skills graduation requirement.

DC Business and Professional Communications (SPCH 1321) for Professional Communications

Find additional information in the Online or Off-Campus Dual Credit Opportunities section of this guide.

Financial Mathematics

Course Numbers:
0122 | 13018000
Credits: 1
Grade Placement: 10-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I or Honors Algebra I

Financial mathematics is a course about personal money management. Students will apply critical- thinking skills to analyze personal financial decisions based on current and projected economic factors. This course will integrate career and postsecondary education planning into financial decision making. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Student to Industry Connection

Course Numbers:
CT.10571 | N1270154
Credits: 1
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: ARD Committee Recommendation

This course provides students with the opportunity to develop professional relationships with experienced individuals within the student's chosen program of study and to demonstrate necessary skills for an online virtual workplace. Students will learn acceptable virtual etiquette and professionalism for a teleworking environment. The central focus of this course is to prepare students to be 21st century career ready through interaction with a seasoned workplace mentor. The course may include a work-based learning component. Instruction will support students with marketable skills attainment.

Forensic Science

Course Numbers:
0859 | 13029500
Blended Course Numbers:
CT.B08591 | 13029500
Credits: 1
Semesters: 2
Weighted GPA: Level 2
Required Prerequisite: Biology or Honors Biology and Chemistry or Honors Chemistry

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science. This course satisfies a high school science graduation requirement and will be included in the calculation of the weighted GPA.



Career Development

Career Preparation

Career Preparation General

Course Numbers First Time Taken: 1300 | 12701111
Course Numbers Second Time Taken: 1400 | 12701112
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: None
Recommended Prerequisite: At least one credit in a career and technical education course.
Certifications: Microsoft Office Specialist Certifications - Word Associate, Excel Associate, Outlook Associate, PowerPoint Associate, Word Expert, Excel Expert, Entrepreneurship and Small Business, and OSHA - 10

This course provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Students will have the opportunity to complete the OSHA 10 Hour training program. Students must have district verified and approved employment that meets approved Training Station Guidelines.

Career Preparation General Extended

Course Numbers First Time Taken: CT.1301 | 12701131
Course Numbers Second Time Time Taken: CT.1401 | 12701132
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: None
Corequisite: Career Preparation General or Career Preparation for Programs of Study
Recommended Prerequisite: At least one credit in a career and technical education course.
Certifications: Microsoft Office Specialist Certifications - Word Associate, Excel Associate, Outlook Associate, PowerPoint Associate, Word Expert, Excel Expert, Entrepreneurship and Small Business, and OSHA - 10

Career Preparation for Programs of Study

Course Numbers First Time Taken:
CT.1500 | 12701121
Course Numbers Second Time Taken:
CT.1600 | 12701122
Credits: 2
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Requires transcript review by counselor - at least one Level 2 or higher career and technical education course
Certifications: Microsoft Office Specialist Certifications - Word Associate, Excel Associate, Outlook Associate, PowerPoint Associate, Word Expert, Excel Expert, Entrepreneurship and Small Business, and OSHA - 10

Career Preparation for Programs of Study provides additional opportunities for students to develop business and industry employment experiences, which must be related to the student's current program of study alongside advanced classroom instruction. This course provides a continuing focus on collaborative feedback between the employer, teacher, and student. Career Preparation for Programs of Study expands on Career Preparation General by increasing rigor, supporting student attainment of academic standards, and effectively preparing students for college and career success. Students will have the opportunity to complete the OSHA 10 Hour training program. Students must have district verified and approved employment that meets approved Training Station Guidelines.

Career Preparation for Programs of Study Extended

Course Numbers First Time Taken: CT.1700 | 12701141
Course Numbers Second Time Time Taken: CT.1800 | 12701142
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: None
Corequisite: Career Preparation General or Career Preparation for Programs of Study
Recommended Prerequisite: At least one credit in a career and technical education course.
Certifications: Microsoft Office Specialist Certifications - Word Associate, Excel Associate, Outlook Associate, PowerPoint Associate, Word Expert, Excel Expert, Entrepreneurship and Small Business, and OSHA - 10

Project-Based Capstone

CTE Project-Based Capstone

Course Numbers First Time Taken: CT.B0771 | 12701101
Course Numbers Second Time Taken: CT.B0772 | 12701102
Course Numbers Third Time Taken: CT.B0773 | 12701103
Credits: 1
Grade Placement: 12
Semesters: 2
Required Prerequisite: Eligibility verification at district & campus level

CTE Project-Based Capstone is a course designed to develop and enhance college-ready and career- ready professional skills while investigating real- world problems, issues, and interests. Students work independently & collaboratively with others across career fields. Students partner with a mentor or advisor to develop a project. Students conduct research, compile findings, implement project activities, and present their work to a relevant audience that may include industry experts. Students must be CCMR-Met to be eligible to take this course. CCMR-Met status can be earned through college ready or career ready eligibility criteria. Additional requirements include being on track to graduate. See Project-Based Capstone eligibility criteria. Approval to enroll in this course will be determined by district & campus staff.

Project-Based Capstone Enrollment Criteria

- Must be a Senior
- 90% Attendance
- Passing all STAAR exams
- On track to graduate with HS Credits
- CCMR-Met - see chart on next page for criteria
- Students must have transportation to release off campus during their release periods
- Students must maintain 90% attendance & passing grades each quarter in Project- Based Capstone to continue to receive their release period.
- Placement at DAEP results in a loss of release periods for the duration of the DAEP placement. When a student returns to their home campus, administration will review eligibility for release.

CCMR-Met Criteria

In order to be eligible for Project-Based Capstone, students must be College Ready or Career Ready based on the below measurements by checking at least ONE of the boxes below.

Your counselor can help you determine where you are on your path to CCMR-Met.

College Ready Criteria	Career Ready Criteria	Additional Eligibility
☐ **Dual-Credit Course Credit** - 3 hours in Math or English; or 9 hours in any dual-credit. ☐ **AP Advanced Placement** - Meet criteria of a 3 on an AP examination ☐ **OnRamps** - Completion of one OnRamps Course ☐ **Meet TSI-Met Criteria** - Earn the minimum score on English & Math on any test below. SAT • English: 480 • Math: 530 ACT • English: 40 • Math: 22 TSIA 2 • English: 945 • Math: 950 • Essay: 5 TSI-Met can be a combination of more than one exam. For example, achieving SAT English 480 and ACT Math 22 = TSI-Met.	☐ **CTE Completer** (complete 3 CTE courses for a total of 4 or more credits in an aligned Program of Study - you can be concurrently enrolled in your last CTE credit your senior year & take the Project-Based Capstone course)	**Students who receive Special Education Services:** ☐ Graduate with a **complete IEP & workforce readiness* (code 54)** ☐ **Complete IEP & mastered specific employability & self help skills* (code 55)** *See your special education case manager for more information.
Bonus - CCMR-Met achievement also qualifies students for a CCMR Graduation Honor Cord		

Additional Project-Based Capstone

Career and Technical Education Project-Based Capstone

Information Technology
PBCI-BL-IT
Course Numbers First Time Taken: CT.B118 | 12701101
PBCII-BL-IT
Course Numbers Second Time Taken: CT.B128 | 12701102
PBCIII-BL-IT
Course Numbers Third Time Taken: CT.B138 | 12701103

Career and Technical Education Project-Based Capstone

Science, Technology, Engineering, and Mathematics
PBCI-BL-STEM
Course Numbers First Time Taken: CT.B0711 | 12701101
PBCII-BL-STEM
Course Numbers Second Time Taken: CT.B0721 | 12701102
PBCIII-BL-STEM
Course Numbers Third Time Taken: CT.B0731 | 12701103

Career and Technical Education Project-Based Capstone

Transportation, Distribution, and Logistics
PBCI-BL-TDL
Course Numbers First Time Taken: CT.B0925 | 12701101
PBCII-BL-TDL
Course Numbers Second Time Taken: CT.B0926 | 12701102
PBCIII-BL-TDL
Course Numbers Third Time Taken: CT.B0927 | 12701103

Career and Technical Education Project-Based Capstone

General Course Numbers
Course Numbers First Time Taken: CT.0811 | 12701101
Course Numbers Second Time Taken: CT.0812 | 12701102
Course Numbers Third Time Taken: CT.0813 | 12701103
Prerequisite: District CTE Approval Required

Senior Advanced Academic Release

Senior Advanced Academic Release	
Course Number: EI. 091, EL.091B, EI.091C **Grade Placement:** 12 **Semesters:** 2 **Required Prerequisite:** Approval of the student's Senior Project-Based Capstone application	Students who are enrolled in three or more Advanced Placement (AP), Dual Credit, OnRamps, or a CTE Practicum course may qualify for a Senior Advanced Academic Release. Students must also be enrolled concurrently in Senior Project-Based Capstone and meet other criteria. See your school counselor for the application containing further information.

Internships

The Internship/Practicum program is designed to introduce students to real world work environments and develop skills that will prepare them to make decisions about their post-secondary future. It is the capstone course for students that are completing a coherent sequence of courses within their specific career pathway and it is divided into three important components: classroom instruction, workplace instruction, and credentialing certifications.

Internship Program Objectives:

- To assist students in making career choices - This includes exploring today's job market, setting personal goals, and developing an individual career portfolio.
- To assist students in basic workplace practices - This includes safety, workplace ethics, communication skills, and professionalism training.
- To assist students in professional development - This includes work relationship training, leadership skill development, problem-solving and thinking-skill development, technology applications, and time management skill development.
- Students will work toward industry recognized certifications in their field of study

Depending on the nature of the program of study and level of experience, internships may be offered in a variety of locations such as: on-campus, off-campus or through a mentorship with an industry professional.

Eligibility verification at district level is required.

*Practicum = Internship

Practicum in Agriculture, Food, and Natural Resources/Extended Practicum in Agriculture, Food, and Natural Resources

PRACI-EXI-BL-AFNR
Course Numbers First Time Taken: CT.B08122 | 13002505
PRAC-EXII-BL-AFNR
Course Numbers Second Time Taken: CT.B08131 | 13002515
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Eligibility verification at district level; must enroll concurrently in Practicum in Agriculture, Food and Natural Resources.

Practicum in Architectural Design/Extended Practicum in Architectural Design

PRAC-EXI-BL-ARCH
Course Numbers First Time Taken: CT.B8243 | 13004805
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Eligibility verification at district level; must enroll concurrently in Practicum in Architectural Design.

Practicum in Audio Video Production/Extended Practicum in Audio Video Production

PRAC-EXI-BL-AAV-AVP
Course Numbers First Time Taken: CT.B235 | 13008705
PRAC-EXII-BL-AAV-AVP
Course Numbers Second Time Taken: CT.B245 | 13008715
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Facilitator approval; eligibility verification at district level; must enroll concurrently in Practicum in Audio Production.

Practicum in Business Management/Extended Practicum in Business Management

PRAC-EXI-BL-BUSM
Course Numbers First Time Taken: CT.B815AC | 13012205
PRAC-EXII-BL-BUSM
Course Numbers Second Time Taken: CT.B8215 | 13012215
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Facilitator approval; eligibility verification at district level; must enroll concurrently in Practicum in Business Management.

Practicum in Business Management (BME Capstone) (Internship)

PRACI-BL-BUSM (AC)
Course Numbers First Time Taken: CT.B865AC | 13012200
PRACII-BL-BUSM (AC)
Course Numbers Second Time Taken: CT.B855AC | 13012210
Credits: 2
Grade Placement: 12
Semesters: 2
Required Prerequisite: Eligibility verification at district level; see academy facilitator for more information.
Recommended Prerequisite: Principles of Business, Marketing, and Finance, Entrepreneurship I, and Entrepreneurship II

Practicum in Commercial Photography/Extended Practicum in Commercial Photography

PRAC-EXI-BL-AAV-CP
Course Numbers First Time Taken: CT.B871 | 13009255
PRAC-EXII-BL-AAV-CP
Course Numbers Second Time Taken: CT.B872 | 13009265
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Facilitator approval; eligibility verification at district level; must enroll concurrently in Practicum in Commercial Photography.

Practicum in Culinary Arts

PRACI-BL-CULN
Course Numbers First Time Taken: CT.B715AC | 13022700
PRACII-BL-CULN
Course Numbers Second Time Taken: CT.B725AC | 13022710
Dual Credit Course Number: D7105AC
Credits: 2
Grade Placement: 12
Semesters: 2
Required Prerequisite: Culinary Arts; eligibility verification at district level; see academy facilitator for more information.

Practicum in Culinary Arts/Extended Practicum in Culinary Arts

PRAC-EXI-BL-CULN
Course Numbers First Time Taken: CT.B720AC | 13022705
PRAC-EXII-BL-CULN
Course Numbers Second Time Taken: CT.B722AC | 13022715
Dual Credit Course Number: CTD7200AC
Credits: 3
Grade Placement: 12
Semesters: 2
Required Prerequisite: Eligibility verification at district level; see academy facilitator for more information.

Practicum in Early Learning/Extended Practicum in Early Learning

PRAC-EXI-BL-EDTR
Course Numbers First Time Taken: CT.BX8081 I 13014525
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Child Guidance; eligibility verification at district level
Corequisite: Practicum in Early Learning; must be taken concurrently with Practicum in Early Learning and may not be taken as a stand- alone course
Certifications: Educational Aide I, Child Development Associate (CDA) certification (complete two-year process to certify)

Practicum in Education and Training/Extended Practicum in Education and Training

PRAC-EXI-BL-EDTR
Course Numbers First Time Taken: CT.B8091 | 13014505
PRAC-EXII-BL-EDTR
Course Numbers Second Time Taken: CT.B8092 | 13014515
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Eligibility verification at district level; must enroll concurrently in Practicum in Education and Training.

Practicum in Graphic Design and Illustration/Extended Practicum in Graphic Design and Illustration

PRAC-EXI-BL-AAV-GDI
Course Numbers First Time Taken: CT.B941 | 13009005
PRAC-EXII-BL-AAV-GDI
Course Numbers Second Time Taken: CT.B942 | 13009015
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Facilitator approval; eligibility verification at district level; must enroll concurrently in Practicum in Graphic Design.

Practicum of Health Science/Extended Practicum in Health Science

PRAC-EXI-BL-HST
Course Numbers First Time Taken: CT.B0090 | 13020505
PRAC-EXII-BL-HST
Course Numbers Second Time Taken: CT.B0092 | 13020515
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Eligibility verification at district level; must enroll concurrently in Practicum in Health Science.

Practicum in Human Services/Extended Practicum in Human Services

PRAC-EXI-BL-HUMS
Course Numbers First Time Taken: CT.B876AC | 13025005
PRAC-EXII-BL-HUMS
Course Numbers Second Time Taken: CT.B0886 | 13025015
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Coordinator approval; eligibility verification at district level; must enroll concurrently in Practicum in Human Services.

Practicum in Engineering/Extended Practicum in Engineering

PRAC-EXI-BL-ENG
Course Numbers First Time Taken: CT.B877AC | 12756085
PRAC-EXII-BL-ENG
Course Numbers Second Time Taken: CT.B977 | 12756095
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Facilitator approval; eligibility verification at district level

Practicum in Transportation Systems/Extended Practicum in Transportation Systems

PRAC-EXI-BL-TDL
Course Numbers First Time Taken: CT.B916AC | 13040455
PRAC-EXII-BL-TDL
Course Numbers Second Time Taken: CT.B926AC | 13040465
Credits: 3
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: Facilitator approval; eligibility verification at district level; must enroll concurrently in Practicum in Practicum in Transportation Systems.

Military Readiness

JROTC

Located at Davis High School
Pending approval and acceptance of a military branch JROTC unit

Junior Reserve Officers' Training Corps (JROTC): Develop leadership, citizenship, confidence, and teamwork through a program focused on leadership education, physical fitness, and community service. Build skills for success in college, careers, military service, and other leadership opportunities after high school.

Note: Participation in JROTC is subject to available space within the program and completion of all participation requirements.

Potential Careers: Government, Public Safety and Military Careers, such as Military Officer, Intelligence Analyst, Police Officer, Government Services Administrator, Emergency Medical Technician, Firefighter, Emergency Management Specialist, Cybersecurity Analyst, and Logistics Coordinator.
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

9th Grade	10th Grade	11th Grade	12th Grade
			
JROTC I (1 credit)	JROTC II (1 credit) **Available in 2028-2029**	JROTC III (1 credit) **Available in 2029-2030**	JROTC IV (1 credit) **Available in 2030-2031**

NOTE: Students may substitute one JROTC credit to satisfy the state physical education graduation requirement using the JROTC PE Substitution course.

JROTC I

Course Numbers: CT.9010 | 03160100
Credits: 1
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: Eligibility verification at district level is required.

JROTC I introduces foundational military customs and traditions, basic drill and ceremony, initial leadership skills alongside physical education credits.

JROTC II

Course Numbers: CT.9020 | 03160200
Credits: 1
Grade Placement: 10-12
Semesters: 2
Required Prerequisite: JROTC I; eligibility verification at district level is required.

JROTC II builds on intermediate leadership principles, communication skills, and global cultural studies.

JROTC III

Course Numbers: CT.9030 | 03160300
Credits: 1
Grade Placement: 11-12
Semesters: 2
Required Prerequisite: JROTC II; eligibility verification at district level is required.

JROTC III focuses on advanced life skills, career planning, management of the cadet corps, and specialized topics.

JROTC IV

Course Numbers: CT.9040 | 03160400
Credits: 1
Grade Placement: 12
Semesters: 2
Weighted GPA: Level 2
Required Prerequisite: JROTC III; eligibility verification at district level is required.

JROTC IV emphasizes practical hands-on command, senior cadet corps administration, mentoring younger cadets, and advanced leadership projects.

JROTC PE Substitution

Course Numbers:
PE.9010 |PES00004
Credits: 1 Year of PE Substitution
Grade Placement: 9-12
Semesters: 2
Required Prerequisite: Must be enrolled in the JROTC program; eligibility verification at district level is required.

Students may substitute one credit in JROTC to satisfy the state physical education graduation requirement using the JROTC PE Substitution course code (PES00004).

Non-Discrimination Notice

English

The Northwest Independent School District offers career and technical education programs in Agriculture, Food & Natural Resources, Architecture & Construction, Arts, A/V Technology & Communications, Business, Marketing & Finance, Education & Training, Health Science, Hospitality & Tourism, Human Services, Manufacturing, Information Technology, STEM, and Transportation, Distribution & Logistics. Admission to these programs is based on open enrollment for all pathways. School of choice academies require additional requests.

It is the policy of the Northwest Independent School District not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational 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.

It is the policy of Northwest Independent School District not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

The Northwest Independent School District will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

For information about your rights or grievance procedures, contact the Executive Director of Student Affairs and Title IX Coordinator, Cynthia Hollis at cynthia.hollis@nisdtx.org, 817-215-0567. Individuals may report concerns or questions under ADA/Section 504 to Director of Student Services, Melissa Webber, at mwebber@nisdtx.org, 817-215-0968.

Español

Northwest Independent School District ofrece programas de educación técnica y vocacional en Agricultura, Alimentos y Recursos Naturales, Arquitectura y Construcción, Artes, Tecnología A/V y Comunicaciones, Negocio, Márketing y Finanzas, Educación y Capacitación, Ciencias de la Salud, Hospitalidad y Turismo, Servicios Humanos, Fabricación, Tecnología de la Información, Ciencia Tecnología, Ingeniería y Matemáticas y Transporte, Distribución y Logística. La admisión a estos programas se basa en la inscripción abierta para todas las vías. Las academias de la escuela de elección requieren solicitudes adicionales.

Es norma de Northwest Independent School District no discriminar en sus programas, servicios o actividades vocacionales por motivos de raza, color, origen nacional, sexo o impedimento, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; Título IX de las Enmiendas en la Educación de 1972, y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda.

Es norma de Northwest Independent School District no discriminar en sus procedimientos de empleo por motivos de raza, color, origen nacional, sexo, impedimento o edad, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; Título IX de las Enmiendas en la Educación, de 1972, la ley de Discriminación por Edad, de 1975, según enmienda; y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda.

Northwest Independent School District tomará las medidas necesarias para asegurar que la falta de habilidad en el uso del inglés no sea un obstáculo para la admisión y participación en todos los programas educativos y vocacionales.

Las personas pueden informar inquietudes o preguntas bajo el Título IX a la Cynthia Hollis, Directora Ejecutiva de Asuntos Estudiantiles y Coordinadora del Título IX, 2001 Texan Dr. Justin, TX 76247, (817) 215-0567, cynthia.hollis@nisdtx.org. Las personas pueden reportar inquietudes o preguntas bajo la Ley ADA/Sección 504 a la Melissa Webber, Directora de Servicios a los Estudiantes y Familias, 2001 Texan Dr. Justin, TX 76247, mwebber@nisdtx.org, (817) 215-0968. El aviso de no discriminación se encuentra en https://www.nisdtx.org/about-nisd/student-affairs.

Comprehensive Special Education

Students experiencing difficulties in school may be referred for services in special education. Before a student can receive special education and/or related services for the first time, an initial evaluation must be conducted. Decisions regarding the provision of special education services are made by an Admission, Review, and Dismissal (ARD) committee. If a student is determined to be eligible for services in accordance with the Texas Education Agency guidelines, an individualized education plan is developed. Instruction that is designed to meet a student's unique educational needs may be provided in a variety of settings. Instructional settings may include (a) general education classroom with accommodations, (b) general education classroom with support, (c) resource classroom, (d) self contained classroom, or (e) a separate campus. Related services necessary for the student to benefit from special education may also be provided.

English

Applied English I, II, III, and IV

These courses modify English I through IV content to meet the individual learning requirements of students as determined by the ARD committee. Applied 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. Placement in this course is determined by the ARD committee. English I and II students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end- of-course (EOC) English I and II* exams to meet part of the graduation requirements. *The English II exam has been phased out with the 2027-28 school year. Students graduating before August 31, 2027 must still meet the English II EOC graduation requirement.

Applied English I

Course Numbers: 0021R | 03220100
Credits: 1
Grade Placement: 9
Semesters: 2
Weighted GPA: Level 2
Prerequisite: ARD committee decision

Applied English II

Course Numbers: 0022R | 03220200
Credits: 1
Grade Placement: 10
Semesters: 2
Weighted GPA: Level 2
Prerequisite: English I, ARD committee decision

Applied English III

Course Numbers: 0023R | 03220300
Credits: 1
Grade Placement: 11
Semesters: 2
Weighted GPA: Level 2
Prerequisite: English II, ARD committee decision

Applied English IV

Course Numbers: 0024R | 03220400
Credits: 1
Grade Placement: 12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: English III, ARD committee decision

Math

Applied Algebra I

Course Numbers: 0104R | 03100500
Credits: 1
Grade Placement: See Prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Pre-Algebra, ARD committee decision

This course modifies Algebra 1 content to meet the individual learning requirements of students as determined by the ARD committee. Applied Algebra I builds and develops on the knowledge and skills from mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations. Placement in this course is determined by the ARD committee. Algebra I students are required to pass the State of Texas Assessment of Academic Readiness (STAAR) end-of-course (EOC) Algebra I exam to meet part of the graduation requirements.

Applied Geometry

Course Numbers:
0112R | 03100700
Credits: 1
Grade Placement: See Prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I; ARD committee decision

This course modifies Geometry content to meet the individual learning requirements of students as determined by the ARD committee. In Applied Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will connect previous knowledge from Algebra I to Geometry through the coordinate and transformational geometry strand. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. Students will use deductive reasoning to justify, prove and apply theorems about geometric figures. Placement in this course is determined by the ARD committee.

Applied Algebraic Reasoning

Course Numbers:
0125R | 03102540
Credits: 1
Grade Placement: See Prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I; ARD committee decision

This course modifies Algebraic Reasoning content to meet the individual learning requirements of students as determined by the ARD committee. Applied Algebraic Reasoning students will broaden their knowledge of multiple representations and linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets. Placement in this course is determined by the ARD committee.

Applied Financial Mathematics

Course Numbers:
CT.0122R | 13018000
Credits: 1
Grade Placement: See Prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I; ARD committee decision

This course modifies Financial Mathematics content to meet the individual learning requirements of students as determined by the ARD committee. Financial mathematics is a course about personal money management. Students will apply critical thinking skills to analyze personal financial decisions based on current and projected economic factors. Placement in this course is determined by the ARD committee. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org.

Applied Algebra II

Course Numbers:
0109R | 03100600
Credits: 1
Grade Placement: See Prerequisites
Semesters: 2
Weighted GPA: Level 2
Prerequisite: Algebra I; ARD committee decision

This course modifies Algebraic Reasoning content to meet the individual learning requirements of students as determined by the ARD committee. In Applied Algebra II, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real- world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods. Placement in this course is determined by the ARD committee

Functional Math

Local Course Number:
MA.1018
Credits: 1 (Local)
Grade Placement: See Prerequisites
Semesters: 2
Prerequisite: Algebra I, Geometry, Algebra II; ARD committee decision

This course utilizes an alternate curriculum to provide students with instruction and practice in functional mathematics skills needed for increased independence in adult life. Instruction focuses on the practical application of mathematics across home, community, and daily living settings. Students will develop and apply skills related to money, purchasing, measurement, time, schedules, basic computation, and problem solving. Emphasis is placed on using mathematical concepts to make decisions, complete everyday tasks, and navigate real-world situations with increased independence. Instruction incorporates hands-on learning and practical experiences to support the application and generalization of functional mat skills.

Applied Strategic Learning for Math

Course Numbers:
M.10290 | N1110030
Credits: 1
Grade Placement: 9-12
Semesters: 2
Weighted GPA: Level 2
Prerequisite: ARD committee decision

This course has been developed to offer essential knowledge and support for students as they progress towards achieving grade-level proficiency in math skills. It is specifically tailored for students whose assessment scores indicate that they are currently performing at multiple grade levels below their expected grade level in math. The course activities are centered around enhancing a deeper understanding of grade-level math concepts that are both aligned with and crucial for mastering the current grade level standards. Applied Strategic Learning for High School Mathematics is for elective credit only and does not substitute for Math credit.

Electives

Activities of Daily Living I

Local Course Number: EL.1039
Credits: 1 (Local)
Grade Placement: 9-12
Semesters: 2
Prerequisite: ARD committee decision

This course provides students with instruction and practice in foundational daily living skills needed to increase independence at home and in the community. Instruction focuses on grocery and household shopping, laundry, light housekeeping, meal preparation, basic money management, and functional communication. Students will learn to complete routine tasks using appropriate tools, materials, and supports, including cleaning and maintaining areas or equipment used to complete a task. Instruction is individualized based on student needs and emphasizes developing skills that support increased independence in adult life.

Activities of Daily Living II

Local Course Number: EL.1049
Credits: 1 (Local)
Grade Placement: 9-12
Semesters: 2
Prerequisite: Activities of Daily Living I; ARD committee decision

This course builds upon the daily living skills developed in ADL I and provides students with opportunities to apply those skills with increased independence across home and community-based settings. Students will strengthen skills in grocery and household shopping, laundry, household maintenance, meal planning and preparation, money management, and functional communication. Emphasis is placed on completing multi-step tasks, making choices, problem solving, managing personal responsibilities, and appropriately communicating needs. Students will work toward completing daily living activities with decreased adult assistance and increased independence in preparation for life after high school.

Applied Reading

This course has been designed to support struggling readers in achieving grade-level proficiency in reading skills. It is specifically tailored for students whose assessment scores indicate that they are currently reading at multiple grade levels below their expected grade level. The course curriculum places a strong emphasis on enhancing comprehension skills, with a primary focus on phonics. Throughout the course, students will acquire high-impact reading and critical thinking strategies that can be applied effectively to a wide variety of both fiction and non- fiction texts. Applied Reading is for elective credit only and does not substitute for English credit.

Reading I, II and III - Language Science

Students identified with dyslexia receive instructional support in phonological awareness, sound-symbol association, syllabication, orthography, morphology, syntax, reading comprehension, and reading fluency.

These courses are for elective credit only and do not substitute for English credit.

Applied Reading I

Course Numbers: ELA.00055 | 03270700
Language Science Course Numbers: ELA.00044 | 03270700
Credits: 1
Grade Placement: 9
Semesters: 2
Weighted GPA: Level 2
Prerequisite: ARD committee decision

Applied Reading II

Course Numbers: ELA.0005 | 03270800
Language Science Course Numbers: ELA.00066 | 03270800
Credits: 1
Grade Placement: 9
Semesters: 2
Weighted GPA: Level 2
Prerequisite: ARD committee decision

Applied Reading III

Course Numbers: ELA.0008 | 03270900
Language Science Course Numbers: ELA.00077 | 03270900
Credits: 1
Grade Placement: 9
Semesters: 2
Weighted GPA: Level 2
Prerequisite: ARD committee decision

College Transition

Course Numbers:
EL.0711 | N1290050
Credits: 1
Grade Placement: 11-12
Semesters: 2
Prerequisite: ARD committee decision

College Transition is designed to equip students with the knowledge, skills, and abilities necessary to be active and successful learners, both in high school and in college. Students examine numerous research based learning strategies that are proven to lead to academic success such as goal setting, effective time management, handling stress, note taking, active reading, test-taking strategies, and conducting research. In the College Transition course, students will research financial scholarships and grant opportunities, complete applications, and explore technical schools, colleges, and universities. Students will understand the changes in the law as they move from IDEA to ADA and learn how to access accommodations on a post-secondary education campus. Placement in this course is determined by the ARD Committee.

Making Connections I

Course Numbers:
EL.10505 | N1290332
Credits: .5
Grade Placement: 9-12
Semesters: 1
Prerequisite: ARD committee decision

This course assists students with autism spectrum disorder, that may cause deficits in the individual's social skills, in developing an understanding of autism and other disorders which may cause deficits in social skills. Making Connections I will assist students in analyzing their own strengths and social skill deficits through self-assessment and the creation of plans to address atypical behaviors that may hinder academic or social success. The course covers topics such as building positive relationships, understanding social expectations in school and community settings, and applying organizational strategies for academic success. Additionally, students will explore postsecondary options, helping them to identify strengths and areas for growth in preparation for life beyond high school.

Making Connections II

Course Numbers:
EL.10605 | N1290333
Credits: .5
Grade Placement: 9-12
Semesters: 1
Prerequisite: Making Connections I; ARD committee decision

This course helps students with autism spectrum disorder develop a deeper understanding of friendships
and social relationships. The course covers disability awareness, teaching students how autism
impacts their ability to form and maintain relationships. It guides students through self-assessment of
their social skills, encourages strategies for improving friendships, and helps differentiate between appropriate and inappropriate relationships. Students also learn to cope with negative attention, engage
in conflict resolution, and apply these skills in various community and social settings. Additionally, the course includes future planning, where students create strategies for sustaining friendships beyond high school.

Path College Career I

Course Numbers:
EL.029 | N1290051
Credits: 1
Grade Placement: 11-12
Semesters: 2
Prerequisite: ARD committee decision

All students deserve academic and social support to help prepare them for the challenges they must face after high school graduation. This course advances intellectual curiosity, conscientiousness, dependability, emotional stability and perseverance through tasks that foster deeper levels of thinking and reasoning. It focuses on developing the habits and skills that are expected in the workforce. Placement in this course is determined by the ARD Committee.

Path College Career II

Course Numbers:
EL.039 | N1290052
Credits: 1
Grade Placement: 12
Semesters: 2
Prerequisite: Path College Career I; ARD committee decision

All students deserve academic and social support to help prepare them for the challenges they must face after high school graduation. This course advances intellectual curiosity, conscientiousness, dependability, emotional stability and perseverance through tasks that foster deeper levels of thinking and reasoning. It focuses on developing the habits and skills that are expected in the workforce. Placement in this course is determined by the ARD Committee.

Strategies for Success

Course Numbers:
LC.69110 | 85000SFS
Credits: 1 (Local)
Grade Placement: 9-12
Semesters: 2
Prerequisite: ARD committee decision

All students deserve academic and social support to help prepare them for the challenges they must face after high school graduation. This course advances intellectual curiosity, conscientiousness, dependability, emotional stability and perseverance through tasks that foster deeper levels of thinking and reasoning. It focuses on developing the habits and skills that are expected in the workforce. Placement in this course is determined by the ARD Committee.

Student to Industry Connection

Course Numbers:
CT.10571 | N1270154
Credits: 1
Grade Placement: 10-12
Semesters: 2
Prerequisite: ARD committee decision

The Student to Industry Connection course provides students with the opportunity to develop professional relationships with experienced individuals within the student's chosen program of study and to demonstrate necessary skills for an online virtual workplace. Students will learn acceptable virtual etiquette and professionalism for a teleworking environment. The central focus of this course is to prepare students to be 21st century career ready through interaction with a seasoned workplace mentor. The course may include a work-based learning component. Instruction will support students with marketable skills attainment.

Online or Off-Campus Dual Credit Opportunities

Tuition varies by partner institution and is based on cost per credit hour (determined by county of residence) + textbooks AND fees. Most, but not all, dual credit courses are 3 credit hours. All dual credit courses require successful completion of the TSIA ELAR and mathematics tests or TSIA exemption based on SAT or ACT scores as indicated. Successful completion of dual enrollment or Advanced Placement exams will not provide an exemption from the testing requirements.

English

DC Composition I (ENGL 1301)

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course and is offered face-to-face for Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Composition I (ENGL 1301) for ENG III A, Grade Placement: 11

Course Numbers: ELA.D9231 | 03220300
Credits: .5
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Math or TSIA-2 Mathematics and TSI met in Reading and Writing or TSIA-2 ELAR

DC Composition I (ENGL 1301) for ENG IV A, Grade Placement: 12

Course Numbers: D00241 | 03220400
Credits: .5
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Math or TSIA-2 Mathematics and TSI met in Reading and Writing or TSIA-2 ELAR

DC Composition II (ENGL 1302)

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course and is offered face-to- face for Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Composition II (ENGL 1302) for ENG III B, Grade Placement: 11

Course Numbers: ELA.D9232 | 03220300
Credits: .5
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; ENGL 1301.

DC Composition II (ENGL 1302) for ENG IV B, Grade Placement: 12

Course Numbers: D00242 | 03220400
Credits: .5
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; ENGL 1301.

DC British Literature I (ENGL 2322)

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. To complete registration for all dual credit courses, students must apply and register through the college. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC British Literature I (ENGL 2322) for ENG IV A and B

Course Numbers: ELA.D90275 | 03220400
Credits: 1
Grade Placement: 12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; ENGL 1301 and 1302 Corequisite: Must enroll in a dual credit course in the fall or spring of the same school year in which they take this course.

DC British Literature I (ENGL 2322) for Independent Study in English A or B

Course Numbers: ELA.D90265 | 03221800
Credits: .5
Grade Placement: 12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; ENGL 1301 and 1302 Corequisite: Must enroll in a dual credit course in the fall or spring of the same school year in which they take this course.

DC American Literature II (ENGL 2328)

A survey of American literature from the Civil War to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC American Literature II (ENGL 2328) for ENG IV A and B

Course Numbers: ELA.D9037 | 03220400
Credits: 1
Grade Placement: 12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; ENGL 1301 and 1302 Corequisite: Must enroll in a dual credit course in the fall or spring of the same school year in which they take this course.

DC American Literature II (ENGL 2328) for Independent Study in English A or B

Course Numbers: ELA.D90365 | 03221800
Credits: .5
Grade Placement: 12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; ENGL 1301 and 1302 Corequisite: Must enroll in a dual credit course in the fall or spring of the same school year in which they take this course.

English Electives

DC Introduction to Speech Communication (SPCH 1311) for Communication Applications

Course Numbers: D91075 | 03241400
Credits: .5
Grade Placement: 9-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Reading, Writing, and Math or TSIA-2 ELAR and Mathematics

This course provides an introduction to basic human communication and theories embedded in various contexts, including interpersonal, small group, and public speaking. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Technical & Business Writing (ENGL 2311) for Business English A and B

Course Numbers: CT.D90025 | 13011600
Credits: 1
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; ENGL 1301

Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, email messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents. This course does not meet NCAA eligibility for student-athletes. For more information, visit eligibilitycenter.org. NOTE: Completion of this class does not meet the prerequisite requirements to take ENGL 2322 or ENGL 2328. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

Math

DC College Algebra (MATH 1314)

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC College Algebra (MATH 1314) for Independent Study in Math A or B

Course Numbers A: M.D90105 | 03102500
Course Numbers B: M.D90106 | 03102500
Credits: .5
Grade Placement: See prerequisites
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; Algebra II or Honors Algebra II; TSI Reading and Writing or TSIA-2 ELAR and TSI met in Math or TSIA -2 Mathematics.

DC Precalculus Mathematics (MATH 2412)

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Precalculus Mathematics (MATH 2412) for Precalculus A and B

Course Numbers: M.D92044 | 03101100
Credits: 1
Grade Placement: See prerequisites
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; MATH 1314 (College Algebra)

DC Precalculus Mathematics (MATH 2412) for Independent Study in Math A or B

Course Numbers: M.D90127 | 03102500
Credits: .5
Grade Placement: See prerequisites
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; MATH 1314 (College Algebra)

DC Elementary Statistics (MATH 1342) for Independent Study in Math A or B

Course Numbers: M.D90128 | 03102500
Credits: .5
Grade Placement: See prerequisites
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; Algebra II or Honors Algebra II; TSI met in Reading, Writing, and Math, or TSIA-2 ELAR and Mathematics

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Contemporary Mathematics (MATH 1332)

Intended for Non STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication are embedded throughout the course. Additional topics may be covered. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Contemporary Mathematics (MATH 1332) for Advanced Quantitative Reasoning A and B

Course Numbers: M.D901074 | 03102510
Credits: 1
Grade Placement: See prerequisites
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Reading and Writing or TSIA-2 ELAR and TSI met in Math or TSIA -2 Mathematics

DC Contemporary Mathematics (MATH 1332) for Independent Study in Math A or B

Course Numbers: M.D901084 | 03102500
Credits: .5
Grade Placement: See prerequisites
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Reading and Writing or TSIA-2 ELAR and TSI met in Math or TSIA -2 Mathematics

Science

DC Anatomy and Physiology (BIOL 2401) for Anatomy and Physiology A

Course Numbers: SC.D902111 | 13020600
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI met in Reading, Writing, and Math or TSIA-2 ELAR and Mathematics

A study of the structure and function of human anatomy, including the neuroendocrine, integumentary, and musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Anatomy and Physiology (BIOL 2402) for Anatomy and Physiology B

Course Numbers: SC.D902112 | 13020600
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; BIOL 2401

A study of the structure and function of human anatomy, including the neuroendocrine, integumentary, and musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized. A continuation of BIOL 2401. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Environmental Biology (BIOL 2406) for Environmental Systems A and B

Course Numbers: SC.D90206 | 03020000
Credits: 1
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI met in Reading, Writing, and Math or TSIA-2 ELAR and Mathematics; Math 1314 recommended

Principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC General Chemistry I (CHEM 1411)

Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course and is offered face-to-face for Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC General Chemistry I (CHEM 1411) for Chemistry A

Course Numbers: SC.D902071 | 03040000
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; MATH 1314 (College Algebra), IPC recommended

DC General Chemistry I (CHEM 1411) for Specialized Topics in Science A

Course Numbers: SC.D903071 | 03060300
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; high school Chemistry and Physics, MATH 1314 (College Algebra)

DC General Chemistry II (CHEM 1412)

Chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry. A continuation of CHEM 1411. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course and is offered face-to-face for Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC General Chemistry II (CHEM 1412) for Chemistry B

Course Numbers: SC.D902072 | 03040000
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; CHEM 1411 (General Chemistry I)

DC General Chemistry II (CHEM 1412) for Specialized Topics in Science B

Course Numbers: SC.D903072 | 03060300
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; CHEM 1411 (General Chemistry I)

DC College Physics I (PHYS 1401)

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces with emphasis on problem solving. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC College Physics I (PHYS 1401) for Physics A

Course Numbers: SC.D902161 | 03050000
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; MATH 1314 and MATH 2412 (College Precalculus)

DC College Physics I (PHYS 1401) for Specialized Topics in Science A

Course Numbers: SC.D92161 | 03060300
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; high school Physics, MATH 1314 (College Algebra) and MATH 2412 (College Precalculus)

DC College Physics II (PHYS 1402)

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC College Physics II (PHYS 1402) for Physics B

Course Numbers: SC.D902162 | 03050000
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; PHYS 1401 (College Physics I)

DC College Physics II (PHYS 1402) for Specialized Topics in Science B

Course Numbers: SC.D92162 | 03060300
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; PHYS 1401 (College Physics I)

DC Stars and Galaxies (PHYS 1403) for Astronomy A

Course Numbers: SC.D902031 | 03060100
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSIA2 ELAR and MATH

Study of stars, galaxies, and the universe outside our solar system. The laboratory requires night observations. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Solar System (PHYS 1404) for Astronomy B

Course Numbers: SC.D902032 | 03060100
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSIA2 ELAR and MATH

Study of the sun and its solar system, including its origin. The laboratory requires night observations. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

Social Studies

DC US Government (GOVT 2305)

Course Numbers: SS.D90304 | 03330100
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Math or TSIA-2 Mathematics and TSI met in Reading and Writing or TSIA-2 ELAR

Origin and development of the US Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course and is offered face-to-face for Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Economics (ECON 2301)

Course Numbers: SS.D90305 | 03310300
Credits: .5
Grade Placement: 11-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Reading, Writing, and Mathematics or TSIA-2 ELAR and Mathematics

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course and is offered face-to-face for Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

Social Studies Electives

DC Psychology (PSYC 2301)

Course Numbers: SS.D90314 | 03350100
Credits: .5
Grade Placement: 10-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Math or TSIA-2 Mathematics and TSI met in Reading and Writing or TSIA-2 ELAR

General Psychology is a survey of the major psychological topics, theories, and approaches to the scientific study of behavior and mental processes. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course and is offered face-to-face for Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Sociology (SOCI 1301)

Course Numbers: SS.D90315 | 03370100
Credits: .5
Grade Placement: 10-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Math or TSIA-2 Mathematics and TSI met in Reading and Writing or TSIA-2 ELAR

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

DC Texas Government (GOVT 2306) for Special Topics in Social Studies

Course Numbers: SS.D90306 | 03380002
Credits: .5
Grade Placement: 10-12
Semesters: 1
Weighted GPA: Level 4
Prerequisite: Parent, counselor, principal, and college approval; TSI Math or TSIA-2 Mathematics and TSI met in Reading and Writing or TSIA-2 ELAR

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and intergovernmental relations, political participation, the election process, public policy, and the political culture of Texas. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course and is offered face-to-face for Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

Fine Arts

DC Art Appreciation (ARTS 1301) for Art I, Appreciation

Course Numbers: FA.D904605 | 03500110
Credits: 1
Grade Placement: 9-12
Semesters: 1
Prerequisite: Parent, counselor, principal, and college approval; TSI Reading, Writing, and Mathematics or TSIA-2 ELAR and Mathematics

A course open to all students directed toward understanding the elements and principles of art as applied to the visual arts: painting, sculpture and architecture as well as printmaking, ceramics, metal work and weaving. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course and is offered face-to-face for Steele Early College High School students. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

Other Electives

DC Business and Professional Communications (SPCH 1321) for Professional Communications

Course Numbers: D0047 | 13009900
Credits: .5
Grade Placement: 11-12 recommended
Semesters: 1
Prerequisite: Parent, counselor, principal, and college approval; TSI Reading, Writing, and Mathematics or TSIA-2 ELAR and Mathematics

Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams and technologically mediated formats. To complete registration for all dual credit courses, students must apply and register through the college. This course offering is a Texas Core Curriculum course. See the NISD College and Career Readiness website for more details: www.nisdtx.org/ccmr.

Other Electives

Academic Decathlon

Course Number: 0308
Credits: 1 (Local)
Grade Placement: 9-12
Semesters: 2
Prerequisite: Teacher recommendation and coach's 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 competition in April, and national competition 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.

Independent Study in English - AP Seminar

Course Numbers: 0026 | 03221800
Credits: 1
Grade Placement: 10-12
Semesters: 2
Weighted GPA: Level 4 (for class of 28 and beyond)
Prerequisite: Honors English I or AP Human Geography recommended

This foundational course provides students with opportunities to think critically and creatively, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. Students explore real-world issues through a cross curricular lens, consider multiple points of view to develop deep understanding of complex issues, connect these issues to their own lives, and work both collaboratively and independently to explore real world issues. Students Independent Study in English will be eligible to participate in the second course; Independent Study in English 2. Students who earn scores of 3 or higher in Independent Study in English 1 and 2 and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. Alternatively, students who earn scores of a 3 or higher in Independent Study in English 1 and 2 will receive the AP Seminar and Research Certificate signifying their attainment of college level academic and research skills. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

Project Based Capstone - AP Research

Course Numbers:
EL.A5022 | 12701102
Credits: 1
Grade Placement: 11-12
Semesters: 2
Prerequisite: AP Seminar

The second course in the Capstone experience allows students to design, plan, and conduct a year-long research-based investigation on a topic of individual interest. Through this mentored inquiry and investigation, students demonstrate the ability to connect scholarly understanding to real-world problems and issues. Students further their skills acquired in the Independent Research in English Course by understanding research methodology, employing ethical research practices, accessing, analyzing, and synthesizing information as they address a research question. The course culminates in a mentored academic thesis paper and a presentation, performance, or exhibition with an oral defense. Students who earn scores of 3 or higher in Independent Study in English 1 and 2 and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. Alternatively, students who earn scores of a 3 or higher in Independent Study in English 1 and 2 will receive the AP Seminar and Research Certificate signifying their attainment of college level academic and research skills. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible.

Cheerleading

Course Numbers: 0725 | PES00013
Credits: Year 1 PE Substitution, Years 2-4 local credit
Grade Placement: 9-12
Semesters: 2
Prerequisite: None

This is a select group of students who perform at community and athletic events. They are the spirit representatives of the school.

Health

Course Numbers:
0700 | 03810100
Credits: .5
Grade Placement: 9-12
Semesters: 1
Prerequisite: None

This one-semester course explores a variety of health issues which influence the wellbeing of an individual throughout the life cycle. Health education offers students an opportunity to study concepts and skills related to physical, mental and social well- being of individuals or groups. This course also provides practical instruction in cardiopulmonary resuscitation (CPR/AED) and first aid. Health issues included relevant to students are basic human anatomy and physiology, mental/emotional health, use and abuse of drugs, tobacco, alcohol, human sexuality, communicable diseases, environmental and consumer health.

Partners in Physical Education

Course Number: LC.101
Credits: .5-1 (Local)
Grade Placement: 9-12
Semesters: 1-2
Prerequisite: Administrator or counselor approval

Partners in PE is a success oriented PE program using supervised peer tutors and individualized learning and instruction. Peer tutors will interact with students with disabilities, develop leadership skills, and learn more about possible careers involving individuals with disabilities.

Methodology for Academic and Personal Success (MAPS)

Course Numbers: EL.1001 | N1130021
Credits: 1
Grade Placement: 9-10
Semesters: 2
Prerequisite: None

The Methodology for Academic and Personal Success course focuses on the skills and strategies necessary for the students to make a successful transition into high school and an academic career. Students will explore the options available in high school, higher education, and the professional world in order to establish both immediate and long-range personal goals. After identifying their individual learning styles and abilities, students will build on these abilities by developing critical time management, organization, and study skills. The course focuses on self-understanding, decision-making, resiliency, attitude, character education, and leadership to help students maximize personal achievement. Students will develop the specific strategies necessary to achieve their personal and professional goals. The course emphasizes proactive problem solving, self-determination, and independent thinking and learning skills. In addition, students will explore and experience collaboration as a tool for creative problem solving. As part of the goal setting and leadership activities, students may complete an outside community service learning experience in addition to class assignments.

Leadworthy the Course

Course Numbers: 0319 | N1290012
Credits: .5
Grade Placement: 9
Semesters: 1
Prerequisite: None

Leadworthy the Course 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.

Student Leadership I, II and III

Student Leadership is a 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 the first year taken. Local credit will be awarded for subsequent years.

Student Leadership I

Course Numbers: 0318 | N1290010
Credits: 1 (State)
Grade Placement: 10-12
Semesters: 2
Prerequisite: None

Student Leadership II

Course Number: 0318-2
Credits: 1 (Local)
Grade Placement: 11-12
Semesters: 2
Prerequisite: Student Leadership I

Student Leadership III

Course Number: 0318-3
Credits: 1 (Local)
Grade Placement: 12
Semesters: 2
Prerequisite: Student Leadership II

Student Intern Program (High School Campus Offices)

Course Number: 0900
Credits: .5-1 (Local)
Grade Placement: 11-12
Semesters: 1-2
Prerequisite: Approval of campus office aide coordinator; counselor and/or administrator approval (course has limited enrollment)

This 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 relations 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 may be required to attend meetings each marking period before the regular school day.