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# HIGH SCHOOL ACADEMIC PLANNING GUIDE

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2021-2022





To the Students of Northwest Independent School District:

NISD makes three commitments to you every year. Our district will do whatever it can to help you be ready for college, ready for a career, and ready for personal success. We feel all of you have the potential for bright futures, but you have a huge part to play in your success. The courses you take will guide and impact your future, and we want to help you through that process.

Please take the time to develop your own personal education plan – one that best interests you and equips you for your future. You have many opportunities to discover, explore, and gain knowledge and experience in numerous areas of study and career paths; however, to take advantage of these opportunities and make the most of your high school experience, you must plan ahead.

As you review this guide, carefully consider the courses you need to achieve your goals. Your counselors and campus administrators are here to help you succeed. If you have questions or need additional assistance in determining your educational plan or selecting courses, please don't hesitate to ask for help.

The Northwest ISD Board of Trustees and staff are committed to preparing future-ready students. We want to help you achieve your dreams and fly, and we do our best to provide you with the courses you need to prepare for your future. Please know we're here for you. You have our support, and we know you'll do great things!

Sincerely,

A handwritten signature in dark red ink, appearing to read "Ryder Warren".

Dr. Ryder Warren, Superintendent  
Northwest ISD

# NORTHWEST

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## INDEPENDENT SCHOOL DISTRICT

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**Counseling Office** | (817) 698-5707

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**Principal** | Stacy Miles

**Counseling Office** | (817) 698-7310

Teamwork | Pride | Excellence  
**Northwest**  
INDEPENDENT SCHOOL DISTRICT  
**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.



# TABLE OF CONTENTS

<b>General Information</b>	<b>6-14</b>	<b>Career and Technical Education</b>	<b>112-195</b>
<b>Graduation Requirements</b>	<b>15</b>	<b><u>Agriculture, Food, and Natural Resources</u></b>	
<b>NISD Endorsement Guide</b>	<b>16-21</b>	Animal Science. . . . .	113-115
<b>Performance Acknowledgments</b>	<b>22-23</b>	Applied Agricultural Engineering. . . . .	116-118
<b>College Preparation and College Testing Information</b>	<b>24-29</b>	Plant Science . . . . .	119-121
<b>Advanced Placement, Dual Credit, and OnRamps</b>	<b>30-34</b>	<b><u>Architecture and Construction</u></b>	
<b>National Merit Scholarship Program</b>	<b>35-36</b>	Architectural Design. . . . .	122-125
<b>Texas Automatic College Admission Criteria</b>	<b>37</b>	<b><u>Arts, A/V Technology and Communications</u></b>	
<b>National Collegiate Athletics Association (NCAA)</b>	<b>38</b>	Creative Media Production Academy . . . . .	126-130
<b>English</b>	<b>39-49</b>	Design and Multimedia Arts . . . . .	131-133
NISD English Course Sequence. . . . .	39	Digital Communications . . . . .	134-135
English Courses . . . . .	40-44	<b><u>Business, Marketing, and Finance</u></b>	
English Electives. . . . .	45-49	Accounting and Financial Services . . . . .	136-137
<b>Mathematics</b>	<b>50-58</b>	BME Academy. . . . .	138-140
NISD Mathematics Course Sequence. . . . .	50	Business Management . . . . .	141-143
Mathematics Courses . . . . .	51-58	<b><u>Education and Training</u></b>	
<b>Science</b>	<b>59-65</b>	Early Learning . . . . .	144-146
NISD Science Course Sequence. . . . .	59	Teaching and Training . . . . .	147-149
Science Courses . . . . .	60-65	<b><u>Health Science</u></b>	
<b>Social Studies</b>	<b>66-74</b>	Healthcare Diagnostics. . . . .	150-151
NISD Social Studies Course Sequence . . . . .	66	Healthcare Therapeutic. . . . .	152-153
Social Studies Courses . . . . .	67-71	<b><u>Hospitality and Tourism</u></b>	
Social Studies Electives. . . . .	72-74	Culinary Arts and Hospitality Academy. . . . .	154-157
<b>Fine Arts</b>	<b>75-85</b>	<b><u>Human Services</u></b>	
<b>Languages Other Than English</b>	<b>86-98</b>	Cosmetology Academy. . . . .	158-159
<b>Physical Education</b>	<b>99</b>	Family and Community Services . . . . .	160-162
<b>Athletics</b>	<b>100-104</b>	<b><u>Information Technology</u></b>	
<b>Blended Courses</b>	<b>105-111</b>	Networking Systems. . . . .	163-165
		<b><u>Manufacturing</u></b>	
		Advanced Manufacturing Machinery Mechanics . .	166-167
		<b><u>STEM</u></b>	
		Biomedical Sciences Academy . . . . .	168-169
		Programming and Software Development . . . . .	170-173
		STEM Academy. . . . .	174-177
		<b><u>Transportation, Distribution, and Logistics</u></b>	
		Aviation and Aeronautics Academy . . . . .	178-187
		<b>Additional CTE Electives</b>	188
		<b>Career Development.</b>	189-191
		<b>Internships</b>	192-196
		<b>Non-Discrimination Notice</b>	197
		<b>Comprehensive Special Education</b>	<b>198-202</b>
		<b>Online or Off-Campus Dual Credit Opportunities</b>	<b>203-212</b>
		<b>Other Electives</b>	<b>213-217</b>



# GENERAL INFORMATION

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

## Advanced Academic Courses

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/ccr](http://www.nisdtx.org/ccr).

### 1.) Honors Courses

Beginning with the 2021-2022 school year, Northwest ISD will be changing the name of all Pre-advanced Placement (PreAP) courses to Honors. This change will not affect the quality of the curriculum or the instruction provided by our teachers. The courses will continue to prepare students for Advanced Placement (AP), Dual Credit, and OnRamps courses.

### 2.) Advanced Placement (AP) Courses

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

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

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 are an example of this course type. Each dual enrollment course in the guide will have the corresponding HS 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.

## **5.) Gifted and Talented (GT) Courses**

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/ccr](http://www.nisdtx.org/ccr).

## **Grade Point Average and Class Rank**

Northwest ISD calculates both an un-weighted 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 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 un-weighted 4.0 scale with grades assigned points as follows:

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

## Point System for Ranking - For Students Entering Grade 9 After Fall 2018

Level 1 - Skills		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	Grade	Grade Points
100	4.0	100	5.0	100	6.0	100	7.0
99	3.9	99	4.9	99	5.9	99	6.9
98	3.8	98	4.8	98	5.8	98	6.8
97	3.7	97	4.7	97	5.7	97	6.7
96	3.6	96	4.6	96	5.6	96	6.6
95	3.5	95	4.5	95	5.5	95	6.5
94	3.4	94	4.4	94	5.4	94	6.4
93	3.3	93	4.3	93	5.3	93	6.3
92	3.2	92	4.2	92	5.2	92	6.2
91	3.1	91	4.1	91	5.1	91	6.1
90	3.0	90	4.0	90	5.0	90	6.0
89	2.9	89	3.9	89	4.9	89	5.9
88	2.8	88	3.8	88	4.8	88	5.8
87	2.7	87	3.7	87	4.7	87	5.7
86	2.6	86	3.6	86	4.6	86	5.6
85	2.5	85	3.5	85	4.5	85	5.5
84	2.4	84	3.4	84	4.4	84	5.4
83	2.3	83	3.3	83	4.3	83	5.3
82	2.2	82	3.2	82	4.2	82	5.2
81	2.1	81	3.1	81	4.1	81	5.1
80	2.0	80	3.0	80	4.0	80	5.0
79	1.9	79	2.9	79	3.9	79	4.9
78	1.8	78	2.8	78	3.8	78	4.8
77	1.7	77	2.7	77	3.7	77	4.7
76	1.6	76	2.6	76	3.6	76	4.6
75	1.5	75	2.5	75	3.5	75	4.5
74	1.4	74	2.4	74	3.4	74	4.4
73	1.3	73	2.3	73	3.3	73	4.3
72	1.2	72	2.2	72	3.2	72	4.2
71	1.1	71	2.1	71	3.1	71	4.1
70	1.0	70	2.0	70	3.0	70	4.0



# Texas Virtual School Network (TXVSN)

Students attending Northwest ISD have the option to enroll in online course(s) offered through TXVSN ([txvsn.org/home/](http://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.

## Transfer Credit

The District shall validate high school courses of transfer students from non-accredited, public, private, home or parochial schools by testing or other evidence that all TEKS are met. Placement for incoming 9th grade students will be determined using district approved assessments. In grades 10-12, students will take approved Credit-By-Exam (CBEs) to earn credit in courses with previous instruction. Arrangements for these exams are scheduled by the student after they are enrolled in a NISD school. The grade a student earns is the grade used to award credit. The minimum exam score is 70 for the grade to be posted on the transcript.

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

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.
- Students scheduled in a course for which they already have credit.
- Student is enrolled in a course for which the student does not have the prerequisite.
- Student has an incomplete schedule.
- Student 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 1 through 4:00 PM the Tuesday BEFORE school starts.
- Exit Window will open again after the first three weeks IPR and close at the end of the day on September 25th.
- The last five days of the first semester.

## Exit Guidelines for Dual Credit and Dual Enrollment Courses

1. Dual Credit and Dual Enrollment withdraw dates vary by institution. It is important that you pay close attention to your institution's guidelines for your withdraw 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 class for which there is a 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 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.

## Exit Guidelines for Honors and AP Courses

1. A student may submit a request for a level change during the following times:
  - August 1st through 4:00 PM the Tuesday before the week school starts.
  - Exit Window will open after the first 3 weeks IPR and close at the end of the 6th week of school.
  - The last five days of the first semester through the first five days of the spring semester.
2. To exit a 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 a 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 a 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.

## 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.
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 content area.
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 Web for Acceleration by Examination information:  
[www.nisdtx.org/cms/One.aspx?portalId=232201&pageId=362045](http://www.nisdtx.org/cms/One.aspx?portalId=232201&pageId=362045)

## 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 a setting for students to complete both original credit coursework as well as making up lost credit through an online learning program. 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, have other extenuating circumstances, or are wanting to free up additional space in their schedule, 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.

### 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 cover 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 and seat availability. Fifth year seniors and upperclassmen are high priority and will be placed first.

## **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 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 must be made with the principal and the counselor prior to the start of the student’s final semester. 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	<b>Four credits:</b> - English I - English II - English III - Advanced English credit	<b>Four credits:</b> - English I - English II - English III - Advanced English credit
Mathematics	<b>Four credits:</b> - Algebra I - Geometry - Advanced math credit - Advanced math credit	<b>Four credits:</b> - Algebra I - Geometry - Algebra II - Advanced math credit
Science	<b>Four credits:</b> - Biology - IPC, Chemistry, or Physics - Advanced science credit - Advanced science credit	<b>Four credits:</b> - Biology - IPC, Chemistry, or Physics - Advanced science credit - Advanced science credit
Social Studies	<b>Three credits:</b> - World Geography or World History - US History - US Government (0.5 credit) - Economics (0.5 credit)	<b>Three credits:</b> - World Geography or World History - US History - US Government (0.5 credit) - Economics (0.5 credit)
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	<b>At least one of the following endorsements is required. See next page for the detailed NISD Endorsement Guide.</b>	
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 course from multiple content areas sufficient to complete the distinguished level of achievement.	
Total Credits	26 credits	26 credits



## Endorsement Guide

### Endorsement Guide Key:

Courses available to 9th grade students

\*Denotes advanced CTE courses.

All courses are one credit unless otherwise denoted in ( ).

### Note:

Detailed courses, endorsements, and information subject to change based on legislative decisions and interpretations.

## Public Service

The Public Service endorsement can be earned by completing a coherent sequence of four or more credits. Two of the courses must be in the same career cluster, at least one course should be an advanced course, and additional course(s) to create a four-credit coherent sequence.

### Education and Training

#### Early Learning

- Principles of Education and Training
- Principles of Human Services
- Child Development
- Child Guidance\* (2)

#### Teaching and Training

- Principles of Education & Training
- Principles of Human Services
- Child Development
- Instructional Practices\* (2)
- Practicum in Education & Training\* (2)

### Health Science

#### Healthcare Diagnostics

- Principles of Health Science
- Medical Terminology
- Health Science Theory\*
- Anatomy and Physiology\*
- Practicum in Health Science: EMT\* (2)

#### Healthcare Therapeutic

- Principles of Health Science
- Medical Terminology
- Health Science Theory\*
- Anatomy and Physiology\*
- Practicum in Health Science: Certified Medical Assistant\* (2)

### Human Services

#### Cosmetology and Personal Care Services (Academy only)

- Principles of Cosmetology Design and Color Theory
- Cosmetology I\* (3)
- Cosmetology II\* (3)

#### Family and Community Services

- Lifetime Nutrition and Wellness (.5)
- Interpersonal Studies (.5)
- Principles of Human Services
- Professional Communications (.5)
- Child Development
- Counseling and Mental Health\*
- Family and Community Services\*
- Practicum in Human Services\* (2)

### Law and Public Service

- Forensic Science\*

### Science, Technology, Engineering and Math

#### Biomedical Science (Academy only)

- PLTW: Principles of Biomedical Science
- PLTW: Human Body Systems
- PLTW: Medical Interventions\*
- PLTW: Biomedical Innovation\*

## Arts and Humanities

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

<p><b>Option 1:</b> Complete five credits from the following list:</p> <ul style="list-style-type: none"><li>• World Geography</li><li>• World History</li><li>• US History</li><li>• Government (.5)</li><li>• Economics (.5)</li><li>• AP Comparative Government (.5)</li><li>• AP European History</li><li>• AP Human Geography</li><li>• Psychology (.5)</li><li>• Sociology (.5)</li><li>• AP Psychology (.5) / Social Studies Advanced Studies (.5)</li><li>• Personal Financial Literacy (.5)</li></ul>	<p><b>Option 2:</b> Complete a coherent sequence of four credits from one or two disciplines in the Fine Arts department:</p> <ul style="list-style-type: none"><li>• Art</li><li>• Theatre Arts</li><li>• Music - Band, Choir, Orchestra</li><li>• Dance</li></ul>
<p><b>Option 3:</b> Complete four credits in the same language other than English from the following list:</p> <ul style="list-style-type: none"><li>• Spanish</li><li>• French</li><li>• German</li></ul>	<p><b>Option 4:</b> 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:</p> <ul style="list-style-type: none"><li>• Spanish</li><li>• French</li><li>• German</li><li>• American Sign Language</li><li>• Computer Science*</li></ul> <p>If a student is transferring from a different district, other languages will be considered. *May not be accepted at every college as fulfilling WL requirement</p>
<p><b>Option 5:</b> Four English credits by selecting from the following:</p> <ul style="list-style-type: none"><li>• AP English III (Language &amp; Composition)</li><li>• English IV or AP English IV (Literature &amp; Composition)</li></ul>	<ul style="list-style-type: none"><li>• Communication Applications (.5)</li><li>• Creative Writing</li><li>• Literary Genres</li></ul>

## Multidisciplinary Studies

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

<p><b>Option 1:</b> Complete four credits from each of the following departments:</p> <ul style="list-style-type: none"><li>• English</li><li>• Mathematics</li><li>• Science</li><li>• Social Studies</li></ul> <p>Must include English IV, and Physics and/or Chemistry.</p>	<p><b>Option 2:</b> Complete four credits in advanced placement or dual credit from the following departments:</p> <ul style="list-style-type: none"><li>• English</li><li>• Mathematics</li><li>• Science</li><li>• Social Studies</li><li>• Languages other than English</li><li>• Fine Arts</li></ul>
<p><b>Option 3:</b> Complete four advanced courses from within one endorsement or among multiple endorsements. (* Denotes advanced applicable courses.)</p>	

## Science, Technology, Engineering and Mathematics

The STEM endorsement can be earned by completing Algebra II, Chemistry and Physics and one of the following five options:

### Option 1:

Complete two credits from the following list:

- Advanced Quantitative Reasoning
- Pre Calculus
- AP Calculus AB
- AP Calculus BC
- AP Statistics
- AP Computer Science A\*
- Dual Credit

### Option 2:

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\*
- Earth and Space Science
- Advanced Animal Science\*
- Forensic Science\*
- Scientific Research and Design\*
- Engineering Science
- Dual Credit

### Option 3:

Complete a TEA-designated program of study related to STEM

#### Agriculture, Food, and Natural Resources:

##### Animal Science

- Principles of Agriculture, Food & Natural Resources
- Livestock Production\*
- Advanced Animal Science\*
- Veterinary Medical Applications\*
- Practicum in Agriculture, Food, and Natural Resources\* (2)

##### Applied Agricultural Engineering

- Principles of Agriculture, Food & Natural Resources
- Agricultural Mechanics & Metal Technologies
- Agricultural Equipment Design and Fabrication W/Lab\* (2)
- Practicum in Agriculture, Food, and Natural Resources\* (2)

##### Plant Science

- Principles of Agriculture, Food & Natural Resources
- Horticultural Science\*
- Floral Design I\*
- Advanced Floral Design\*
- Practicum in Agriculture, Food, and Natural Resources\* (2)

#### Architecture and Construction:

##### Architectural Design

- Principles of Architecture
- Architectural Design I
- Architectural Design II\* (2)
- Practicum in Architectural Design\* (2)
- Interior Design I
- Interior Design II\* (2)
- Computer Aided Drafting for Architecture

#### Health Science:

##### Healthcare Diagnostics

- Principles of Health Science
- Medical Terminology
- Health Science Theory\*
- Anatomy and Physiology\*
- Practicum in Health Science: EMT\* (2)

##### Healthcare Therapeutic

- Principles of Health Science
- Medical Terminology
- Health Science Theory\*
- Anatomy and Physiology\*
- Practicum in Health Science: Certified Medical Assistant\* (2)

**Option 3 (Continued):**

Complete a TEA-designated program of study related to STEM

**Information Technology:**Networking Systems

- Principles of Information Technology
- Computer Maintenance
- Networking\*
- Practicum in Information Technology\* (2)
- Computer Science I

**Manufacturing:**Advanced Manufacturing and Machinery Mechanics

- Blueprint Reading for Manufacturing Applications

**Science, Technology, Engineering and Math:**Biomedical Science (Academy only)

- PLTW: Principles of Biomedical Science
- PLTW: Human Body Systems
- PLTW: Medical Interventions\*
- PLTW: Biomedical Innovation\*

Cybersecurity

- Principles of Information Technology
- Foundations of Cybersecurity (PLTW) (STEM Academy only)
- Computer Science I
- Computer Maintenance
- AP Computer Science\* (2)
- Practicum in Information Technology\* (2)
- Practicum in STEM\* (2)
- Independent Study in Technology Applications\*

Engineering (Academy only)

- PLTW: Introduction to Engineering Design
- Engineering Science (PLTW POE)
- PLTW: Aerospace\*
- PLTW: Civil Engineering and Architecture\*
- PLTW: Environmental Sustainability\*
- Digital Electronics\* (PLTW)
- PLTW: Engineering Design and Development\*
- Practicum in STEM\* (2)

Programming and Software Development

- Computer Science I
- AP Computer Science A\* (with completion of Algebra I) (2)
- Computer Science II\*
- Practicum in Information Technology\* (2)
- Independent Study in Technology Applications\*

**Transportation, Distribution and Logistics:  
(Aviation and Aeronautics Academy only)**Aviation (Flight)

- Intro to Aerospace and Aviation
- Intro to Aircraft Technology
- Project-Based Research\* (Aviation)
- Practicum in Transportation Systems\* (2)

Drone (Unmanned Flight)

- Intro to Aerospace and Aviation
- Intro to Aircraft Technology
- Intro to Unmanned Aerial Vehicles
- Project-Based Research\* (Aviation)

**Option 4:**

Complete three credits in a coherent sequence from no more than two options above.

## Business and Industry

The Business and Industry endorsement can be earned by completing a coherent sequence of four or more credits

### Option 1:

#### Agricultural, Food, and Natural Resources:

##### Animal Science

- Principles of Agriculture, Food & Natural Resources
- Livestock Production\*
- Advanced Animal Science\*
- Veterinary Medical Applications\*
- Practicum in Agriculture, Food, and Natural Resources\* (2)

##### Applied Agricultural Engineering

- Principles of Agriculture, Food & Natural Resources
- Agricultural Mechanics & Metal Technologies
- Agricultural Equipment Design and Fabrication W/Lab\* (2)
- Practicum in Agriculture, Food, and Natural Resources\* (2)

##### Plant Science

- Principles of Agriculture, Food & Natural Resources
- Horticultural Science\*
- Floral Design I\*
- Advanced Floral Design\*
- Practicum in Agriculture, Food, and Natural Resources\* (2)

#### Architecture and Construction:

##### Architectural Design

- Principles of Architecture
- Architectural Design I
- Architectural Design II\* (2)
- Practicum in Architectural Design\* (2)
- Interior Design I
- Interior Design II\* (2)
- Computer Aided Drafting for Architecture

#### Arts, Audio/Video Technology and Communications: (CMP Academy only unless otherwise designated as All)

##### Design and Multimedia Arts

- Digital Arts and Animation\*
- Principles of Arts, AV & Communications (All)
- Animation I (All)
- Commercial Photography I
- Commercial Photography II\*
- Commercial Photography II with Lab\* (2)
- Practicum in Commercial Photography\*
- Graphic Design & Illustration I (All) (9 in Academy, 10 in Non-Academy)
- Graphic Design & Illustration II\*
- Graphic Design & Illustration II with Lab\* (2)
- Practicum in Graphic Design\* (2)

##### Digital Communications

- Principles of Arts, AV & Communications (All)
- AV Production I (All)
- AV Production I with Lab (All)
- AV Production II\* (All)
- AV Production II with Lab\* (2) (All)
- Practicum in AV\* (2)
- Professional Communications (.5) (All)

##### Printing and Imaging Technology

- Printing and Imaging Technology I and II\*
- Printing and Imaging Technology I and II\* with Lab (2)
- Practicum in Printing and Imaging Technology\* (2)

#### Business, Marketing, and Finance:

##### Accounting and Financial Services

- Principles of Business, Marketing, & Finance
- Business Information Management I
- Accounting I
- Financial Mathematics
- Practicum in Business Management\* (2)

##### Business Management

- Principles of Business, Marketing, & Finance
- Business Information Management I, II
- Business Law
- Virtual Business (.5) (BME Academy only)
- Business Management\*
- Practicum in Business Management\* (2)

##### Entrepreneurship

- Principles of Business, Marketing, & Finance
- Business Information Management I
- Entrepreneurship (BME only)
- Practicum in Business Management\* (2)

##### Marketing and Sales

- Social Media Marketing\* (.5) (BME Academy only)

#### Hospitality and Tourism: (Culinary Arts Academy only)

##### Culinary Arts

- Principles of Hospitality & Tourism
- Intro to Culinary Arts
- Culinary Arts\* (2)
- Practicum/Extended Practicum in Culinary\* (3)



### Option 1 (Continued):

#### Information Technology:

##### Networking Systems

- Principles of Information Technology
- Computer Maintenance
- Networking\*
- Practicum in Information Technology\* (2)
- Computer Science I

#### Manufacturing:

##### Advanced Manufacturing and Machinery Mechanics

- Blueprint Reading for Manufacturing Applications

##### Welding

- Welding I (2)

#### Science, Technology, Engineering and Math:

##### Cybersecurity

- Principles of Information Technology
- Foundations of Cybersecurity (PLTW) (STEM Academy only)
- Computer Science I
- Computer Maintenance
- AP Computer Science (2)
- Practicum in Information Technology\* (2)
- Practicum in STEM\* (2)
- Independent Study in Technology Applications\*

##### Engineering (Academy only)

- PLTW: Introduction to Engineering Design
- Engineering Science (PLTW POE)
- PLTW: Aerospace\*
- PLTW: Civil Engineering and Architecture\*
- PLTW: Environmental Sustainability\*
- Digital Electronics\* (PLTW)
- PLTW: Engineering Design and Development\*
- Practicum in STEM\* (2)

##### Programming and Software Development

- Computer Science I
- AP Computer Science A\* (with completion of Algebra I) (2)
- Computer Science II\*
- Practicum in Information Technology\* (2)
- Independent Study in Technology Applications\*

#### Transportation, Distribution, and Logistics: (Aviation and Aeronautics Academy only)

##### Aviation (Flight)

- Intro to Aerospace and Aviation
- Intro to Aircraft Technology
- Project-Based Research\* (Aviation)
- Practicum in Transportation Systems\* (2)

##### Aviation Maintenance

- Intro to Aircraft Technology
- Aircraft Airframe Technology\* (2)
- Aircraft Powerplant Technology\* (2)
- Aircraft Powerplant Technology/ Advanced Transportation Systems Laboratory\* (3)
- Practicum in Transportation Systems\* (2)

##### Drone (Unmanned Flight)

- Intro to Aerospace and Aviation
- Intro to Aircraft Technology
- Intro to Unmanned Aerial Vehicles
- Project-Based Research\* (Aviation)

### Option 2:

The Business and Industry endorsement can be earned by completing a coherent sequence of four English elective credits to include three levels in one of the following areas:

- Public Speaking (.5)
- Debate I, II, III
- Independent Study in Speech (Debate IV)
- Advanced Journalism: Newspaper Production I, II, III
- Independent Study in Journalism (Newspaper IV)

# PERFORMANCE ACKNOWLEDGMENTS

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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 a minimum of 12 hours of college academic courses, including dual credit and advanced technical credit courses with a grade equivalent of 3.0 or higher on a 4.0 scale.
- 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:
    - 1) Completion of 3 credits in the same language other than English with a minimum GPA of the equivalent of 80%; or
    - 2) 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
    - 3) 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
    - 4) Demonstrated proficiency in one or more languages other than English through one of the following methods:
      - a. A score of 3 or higher on a College Board advanced placement examination for a language other than English; or
      - b. A score of 4 or higher on an International Baccalaureate (Transfer Students only) examination for a higher-level language other than English course; or
      - c. 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 PSAT/NMSQT as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation;
- 2.) Achieving the ACT® readiness benchmark score on at least three of the five subject tests on the ACT Aspire examination;
- 3.) Earning a total score of at least 1310 on the SAT®; or
- 4.) Earning a composite score on the ACT exam of 28 (excluding the writing subscore)

## **Nationally/Internationally Recognized Business or Industry Certification or License**

- 1.) Performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification; or
- 2.) Performance on an examination sufficient to obtain a government-required credential to practice a profession.



# COLLEGE PREPARATION AND TESTING INFORMATION

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## 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: <http://www.collegeforalltexans.com/apps/financialaid/tofa2.cfm?ID=458>

## 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. NISD will work with students through their senior-level government and economics classes to help them understand and begin the submission process.

There are many merit scholarships available to students through the completion of the FAFSA application at <https://fafsa.ed.gov>. 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 do not need to complete both the FAFSA and TASFA. Please visit the College for All Texans FAFSA/TASFA website at <https://tinyurl.com/y92tu4k2> 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.

## 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 at <http://actstudent.org/onlineprep/>.

## 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 at <https://sat.collegeboard.org/practice> and <https://www.khanacademy.org/sat>.

## 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.

## 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 course work 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. The score required to master each section of the TSIA-2 are:

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 diagnostic questions. If required, students must score a 4-6 on the diagnostic to take the test's essay portion.



TSI Prior to January 2021		
Section	College-Ready Score Range	Description of TSI Section
TSI Mathematics	350 or higher	<p>There are approximately 20 items on the TSI Mathematics Assessment.</p> <p>If the TIS Mathematics Assessment is not mastered successfully, additional diagnostic questions will be required.</p>
TSI Reading	351 or higher	<p>There are approximately 24 items on the TSI reading assessment.</p> <p>If the TSI Reading Assessment is not mastered successfully, additional diagnostic questions will be required.</p>
TSI Writing	<p>340 – 390 with an essay score of 4 or higher.</p> <p>OR</p> <p>310-339 with an ABE Diagnostic level of at least 4 and an essay score of 5 or higher.</p>	<p>There are approximately 20 items on the TSI Writing Assessment.</p> <p>If the TSI Writing Assessment is not mastered successfully, additional diagnostic questions will be required.</p> <p>On the essay, you will be asked to write a five-paragraph persuasive essay (approximately 350-500 words) on a controversial issue or one of current interest.</p>

## TSIA-2 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 through one of the tests listed below. Students must sit for TSIA-2 Mathematics and TSIA-2 ELAR before they will be allowed to enroll in dual credit courses. Consult with the college you plan to attend for more information about their specific TSIA-2 requirements.

<b>TSIA-2 Exemptions</b> 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
<b>ACT</b>	<b>23</b> composite	<b>19</b> – ACT Math – Math TSIA-2  <b>19</b> – ACT English – Reading and Writing TSIA-2	<p><b>To use your ACT score to exempt you from the TSIA-2, you must first have a composite score of 23 or higher. Then, for each subsection of the TSIA-2, you must have a 19 or higher in the same content area.</b></p> <p>For example, to be exempt from the TSIA-2 Reading and the TSIA-2 Writing Assessments, you must first have at least a 23 composite score and at least a 19 on the ACT English portion of the ACT. It is possible to have this exemption in TSIA-2 Reading and TSIA-2 Writing without having a 19 or higher on the ACT Math portion.</p>
<b>SAT</b> (On or after March 5, 2016)	<b>No combined score used</b>	<b>530</b> – SAT Math – Math TSIA-2  <b>480</b> – SAT Evidence-Based Reading and Writing – Reading and Writing TSIA-2	<p>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.</p> <p>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.</p>

## 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. Each college has their own Pre-Assessment Activity. Please see the College & Career Readiness website for more information and college specific resources.

### **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 unless you meet the exemption qualifications.

### **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. Additional information on the registration and payment process. ([www.nisdtx.org/ccr](http://www.nisdtx.org/ccr))

### **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 are available for TSIA-2 testing. Students who qualify should contact the campus TSIA-2 Administrator for more information.



# ADVANCED PLACEMENT, DUAL CREDIT, AND ONRAMPS

	Dual Credit	Advanced Placement	UT OnRamps
<b>Definition</b>	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.
<b>Offerings</b>	30+ courses (including CTE offerings)	32 AP courses	8 OnRamps courses
<b>Transferability</b>	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 transfer, 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 transfer, but it is up to the institution.
<b>How College Credit is Earned</b>	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 choose at the end of the course whether to accept the credit or not.
<b>Cost</b>	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.	AP Exam prices vary each year. Most AP Exams cost about \$100 each. The Capstone and Seminar Exams cost about \$150. A portion of the AP Exam cost may be funded by NISD. Institutions may charge a fee to add AP Exam credits to your college transcript.	Courses cost \$149 per 3 college course and \$99 for students who qualify for Free or Reduced Lunch. Example: OnRamps English 3 is ENGL 1301 and ENGL 1302 so the standard full year cost is \$298 Students enrolled in an OnRamps course after the first 15 days of class are responsible for the tuition cost whether they qualify for college credit or not.
<b>Limits on Enrollment / Conflicts</b>	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.	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 OnRamps 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 credit.

**Caution:** A failing grade in an AP or OnRamps course will impact your high school GPA, but failing a dual credit course will impact your college GPA which will 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 OnRamps 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, OnRamps, 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)
- Speech (3 SCH)
- Mathematics (3 SCH)
- Science (8 SCH)
- Creative Arts (3 SCH)
- Language, Culture & Philosophy (3 SCH)
- American History (6 SCH)
- Government (6 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, OnRamps, and Advanced Placement courses are part of the Texas Core. The classes in **BOLD** on page 33 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 PSAT, SAT, ACT exemption scores are required for TCC.  
TSIA-2 is not required for OnRamps.

<b>English (6 Hours) Choose Two Courses</b>		
ENGL 1301 OR OnRamps Intro to Rhetoric	ENGL 1302 OR OnRamps Rhetoric and the American Identity	_____ 3 Hrs _____ 3 Hrs
<b>Speech (3 Hours) Choose One Course</b>		
SPCH 1311 OR SPCH 1321		_____ 3 Hrs
<b>Mathematics (3 Hours) Choose One Course</b>		
MATH 1314 OR MATH 1342 OR MATH 1332 OR MATH 2312 OR OnRamps College Algebra (full year) OR OnRamps Discovery PreCalculus (full year) OR OnRamps Statistics (full year)		_____ 3 Hrs
<b>Science (8 Hours) Choose Two Courses</b>		
BIOL 2401 OR CHEM 1411 OR PHYS 1401 OR BIOL 2406 OR OnRamps Physics I (full year)	BIOL 2402 OR CHEM 1412 OR PHYS 1402	_____ 4 Hrs _____ 4 Hrs
<b>Creative Arts (3 Hours) Choose One Course</b>		
ARTS 1301		_____ 3 Hrs
<b>Language, Culture &amp; Philosophy (3 Hours) Choose One Course</b>		
ENGL 2322 OR ENGL 2328		_____ 3 Hrs
<b>American History (6 Hours) Choose Two Courses</b>		
OnRamps US History	OnRamps US History	_____ 3 Hrs _____ 3 Hrs
<b>Government (6 Hours) Choose Two Courses</b>		
GOVT 2305 (Both Government courses required depending on transfer requirements. Check with College Advisory or High School Representative)	GOVT 2306 (Both Government courses required depending on transfer requirements. Check with College Advisory or High School Representative)	_____ 3 Hrs _____ 3 Hrs
<b>Behavior (3 Hours) Choose One Course</b>		
PSYCH 2301 SOCI 1301 ECON 2301		_____ 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.

How to Read TCC Course Numbers: Example ENGL 1301

- All have four-letter department abbreviations
- Each course has a four-digit number
- The first digit indicates the level at which the course is taught, as follows:
  - > 1 = Freshman or introductory level
  - > 2 = Sophomore or Intermediate or advanced
- The second digit indicates the **semester credit hour value** of the course.
- The third and fourth digits establish the type of institution and course sequence.

## Advanced Placement, Dual Credit, and OnRamps Courses

	Dual Credit	Advanced Placement	OnRamps
English	<b>ENGL 1301</b> – Composition I (English III or IV) <b>ENGL 1302</b> – Composition II (English III or IV) <b>ENGL 2311</b> – Technical & Business Writing <b>ENGL 2322</b> – British Literature I (English IV-A/B) <b>ENGL 2328</b> – American Literature II (English IV-A/B)	<b>AP English Language</b> (English III) <b>AP English Literature</b> (English IV)	<b>RHE 306/ENGL 1301</b> – OnRamps (English III or IV) <b>RHE 309/ENGL 1302</b> – OnRamps (English III or IV)
Mathematics	<b>MATH 1314</b> – College Algebra <b>MATH 1332</b> – Contemporary Mathematics <b>MATH 1342</b> – Elementary Statistics <b>MATH 2412</b> – Precalculus	<b>AP Calculus AB</b> <b>AP Calculus BC</b> <b>AP Statistics</b> AP Computer Science	<b>MATH 2312</b> – OnRamps Precalculus <b>MATH 1342</b> – OnRamps Statistics <b>MATH 1314</b> – OnRamps College Algebra
Science	<b>BIOL 2401</b> – Human Anatomy & Physiology I <b>BIOL 2402</b> – Human Anatomy & Physiology II <b>PHYS 1401</b> – College Physics I <b>PHYS 1402</b> – College Physics II <b>CHEM 1411</b> – General Chemistry I <b>CHEM 1412</b> – General Chemistry II BIOL 2406 – Environmental Biology <i>(Labs required for DC Sciences)</i>	<b>AP Biology</b> <b>AP Chemistry</b> <b>AP Physics 1</b> <b>AP Physics C: Mechanics</b> <b>AP Physics C: Electricity &amp; Magnetism</b> AP Environmental Science	<b>PHYS 1301</b> – OnRamps Physics
Social Studies	<b>GOVT 2305</b> – US Government <b>GOVT 2306</b> – Texas Government <b>ECON 2301</b> – Macroeconomics <b>PSYC 2301</b> – General Psychology <b>SOCI 1301</b> – Introduction to Sociology	AP Human Geography AP World History <b>AP US History</b> <b>AP Macroeconomics</b> <b>AP US Government &amp; Politics</b> <b>AP Comparative Government &amp; Politics</b> <b>AP Psychology</b> AP European History	<b>HIS 315K/HIST 1301</b> – OnRamps US History <b>HIS 315L/HIST 1302</b> – OnRamps US History
Fine Arts	<b>ARTS 1301 – Art Appreciation</b>	AP Art History <b>AP Music Theory</b> <b>AP Studio Art: 2-D Design</b> <b>AP Studio Art: 3-D Design</b> <b>AP Studio Art: Drawing</b>	None Available At This Time
Electives	<b>SPCH 1311</b> – Intro to Speech Communication <b>SPCH 1321</b> – Professional Communication EYW – Engineer Your World FREN 1411 & FREN 1412 – French I & II WLDG 1428 & 1430 – Introduction to Shielded Metal Arc Welding (SMAW) & Introduction to Gas Metal Arc Welding (GMAW) (Welding I-A) WLDG 1312, 1434 & 1417 – Introduction to Flux Core Arc Welding, Introduction to Gas Tungsten Arc Welding (GTAW), & Introduction to Layout and Fabrication (Welding I-B) <i>[Note: Some CTE courses may offer an option to earn college credit for an additional fee.]</i>	AP Spanish Language AP Spanish Literature AP French Language AP German Language AP Research AP Seminar AP Computer Science A	CS 302 – OnRamps Computer Science

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

# NATIONAL MERIT SCHOLARSHIP PROGRAM

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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 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:

- **National Merit \$2,500 Scholarships**

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.

- **Corporate-sponsored Merit Scholarship awards**

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.

- **College-sponsored Merit Scholarship awards**

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.

# TEXAS AUTOMATIC COLLEGE ADMISSION CRITERIA

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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 [UT Austin Admissions](#) 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 Composite Score of 23 AND at least a 19 on Mathematics and a 19 on English, or Score at least a 530 on SAT Mathematics and a 480 on SAT Evidence-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.

# NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA)

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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 ([www.eligibilitycenter.org](http://www.eligibilitycenter.org)). 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 at least a 2.3 GPA in their core courses.
- Earn an SAT combined score or ACT sum score matching their core-course GPA on the Division I sliding scale, which balances their test score and core-course GPA. If students have a low test score, they will need a higher core-course GPA to be eligible. If they have a low core-course GPA, they will need a higher test score to be eligible.

### Division II

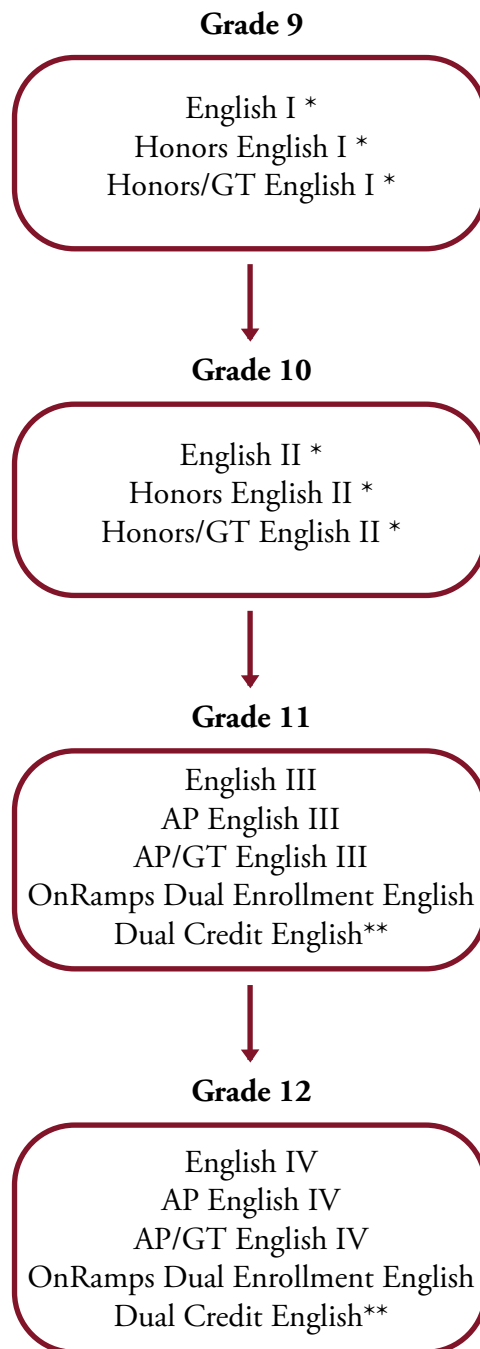
- 3 years of English.
- 2 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 3 years of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area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



# NISD ENGLISH COURSE SEQUENCE

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\* 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

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Summer reading is required for all On-level, Honors, Honors/GT, AP, AP/GT, and OnRamps English courses. Summer reading lists are available at [nisdtx.org](http://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

**Course Numbers:** 0021 | 03220100

**Credits:** 1

**Grade Placement:** 9

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

### English II

**Course Numbers:** 0022 | 03220200

**Credits:** 1

**Grade Placement:** 10

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** English I

### English III

Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** 0023 | 03220300

**Blended Course Numbers:** ELA.B0023 | 03220300

**Credits:** 1

**Grade Placement:** 11

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** English II

## English IV

**Course Numbers:** 0024 | 03220400

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** English III

## Honors English I

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.

**Course Numbers:** ELA.021H | 03220100

**Credits:** 1

**Grade Placement:** 9

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** None

## Honors/GT English I

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.

**Course Numbers:** ELA.021GH | 03220100

**Credits:** 1

**Grade Placement:** 9

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** GT Identified

## **Honors English II**

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.

**Course Numbers:** ELA.022H | 03220200

**Credits:** 1

**Grade Placement:** 10

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** English I

## **Honors/GT English II**

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. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** ELA.022GH | 03220200

**Blended Course Numbers:**

ELA.B23GH | 03220200

**Credits:** 1

**Grade Placement:** 10

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** English I and GT Identified

## **AP English III/AP English Language and Composition**

AP English III is an in-depth study of works from American literature and selections from 17th and 18th century nonfiction. Students are expected to read extensively outside of class. 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.

**Course Numbers:** 0023A | 03220300

**Credits:** 1

**Grade Placement:** 11

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** English II

## **AP/GT English III English Language and Composition**

AP/GT English III is designed to meet the needs of the GT student by incorporating cross-curricular connections, complex and abstract thought and flexible pacing strategies. This course includes an in-depth study of works from American literature and selections from 17th and 18th century nonfiction. Students are expected to read extensively outside of class. 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.

**Course Numbers:** 0023G | 03220300

**Credits:** 1

**Grade Placement:** 11

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** English II and GT Identified

**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**

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](http://nisdtx.org/onramps).** UT Austin tuition for this course is paid to Northwest ISD. See page 30 for details. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** D9023OR | 03220300

**Blended Course Numbers:** B.D923OR | 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

**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**

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](http://nisdtx.org/onramps).** UT Austin tuition for this course is paid to Northwest ISD. See page 30 for details. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** D9024OR | 03220400

**Blended Course Numbers:** B.D924OR | 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

**English III Online or Off-Campus Dual Credit  
Opportunities**

See page 203 for more information about these opportunities.

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

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

### **AP English IV/English Literature and Composition**

AP Literature and Composition is an in-depth study of British Literature. 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.

**Course Numbers:** 0024A | A3220200

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** English III

### **AP/GT English IV/English Literature and Composition**

AP/GT English IV is designed to meet the needs of the GT student by incorporating cross-curricular connections, complex and abstract thought and flexible pacing strategies. This course includes an in-depth study of British Literature. 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.

**Course Numbers:** 0024G | A3220200

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** English III and GT Identified

### **English IV Online or Off-Campus Dual Credit Opportunities**

See page 203 for more information about these opportunities.

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

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

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

**Dual Credit American Literature II  
(ENGL 2328) for ENG IV A and B**

## **English for Speakers of Other Languages**

All students who enroll in NISD will complete a home language survey. If this survey indicates that a language other than English is primarily spoken in the home or is primarily spoken by the student, the student will be referred to the ESOL Teacher for a language proficiency evaluation. Tests will be administered and students who are found to be limited English proficient (LEP) may enroll in ESOL classes. ESOL classes focus on intensive development of listening, speaking, reading, and writing skills in English. For students who are classified as immigrant and LEP, two credits of ESOL may count as English I and English II credits required for high school graduation. For non-immigrant LEP students any credit earned in ESOL may be counted as elective credit to meet graduation requirements. All English language learners must complete English III or English IV. If needed both classes are offered in Sheltered English format. These courses develop an understanding of basic core vocabulary, expressions and American customs. Emphasis is placed on acquisitions of English through participation in numerous and various language and cultural experiences in addition to direct, formal teaching of skills and structure in English. Students will gain competence and proficiency in listening, speaking, reading and writing in English.

## **English I for Speakers of Other Languages**

**Course Numbers:** 0001 | 03200600

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2

## **English II for Speakers of Other Languages**

**Course Numbers:** 0002 | 03200700

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2



# ENGLISH ELECTIVES

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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 (\*).

## Communication

### Communication Applications

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.

**Course Numbers:** 0045 | 03241400

**Credits:** .5

**Grade Placement:** 9-12

**Semesters:** 1

**Weighted GPA:** Level 2

**Prerequisite:** None

### Public Speaking

This course is a general introduction to fundamentals of oral communications. Students will gain experience preparing and giving speeches and presentations for various professional and social settings and will present using a variety of purposes and styles. This course includes individual speaking skills and discussion techniques. It emphasizes adjustment to the speaking situation, listening, body action when speaking, voice and diction when speaking, limited panel discussion and debate, and speaker-audience relationships.

**Course Numbers:** 0041 | 03240900

**Credits:** .5

**Grade Placement:** 9-12

**Semesters:** 1

**Weighted GPA:** Level 2

**Prerequisite:** None

## 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

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

**Course Numbers:** 0071 | 03240600

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

### 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) \***

This is a course for the fourth year student 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.

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

## Journalism

**Journalism**

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

**Course Numbers:** 0064 | 03230100**Credits:** 1**Grade Placement:** 9-12**Semesters:** 2**Weighted GPA:** Level 2**Prerequisite:** None**Advanced Journalism: Newspaper I, II and III**

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

**Advanced Journalism: Newspaper I****Course Numbers:** 0051 | 03230140**Credits:** 1**Grade Placement:** 9-12**Semesters:** 2**Weighted GPA:** Level 2**Prerequisite:** Journalism or teacher approval**Advanced Journalism: Newspaper II****Course Numbers:** 0052 | 03230150**Credits:** 1**Grade Placement:** 10-12**Semesters:** 2**Weighted GPA:** Level 2**Prerequisite:** Newspaper I**Advanced Journalism: Newspaper III \*****Course Numbers:** 0053 | 03230160**Credits:** 1**Grade Placement:** 11-12**Semesters:** 2**Weighted GPA:** Level 2**Prerequisite:** Newspaper II

### **Independent Study in Journalism (Newspaper IV) \***

This is a course for the fourth year student in Newspaper. 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.

**Course Numbers:** ELA.0066 | 03231000

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Newspaper III and teacher approval.

## **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**

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

**Course Numbers:** 0076 | 03240200

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

### **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) \***

This is a course for the fourth year student 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.

**Course Numbers:** ELA.0079 | 03241200

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Oral Interpretation III and teacher approval.

## Other English Electives

### Business English\*

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.

**Course Numbers:** CT.0025 | 13011600

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 1

**Prerequisite:** English III

### Business English Online or Off-Campus Dual Credit Opportunity

See page 203 for more information about this opportunity.

### Dual Credit Technical & Business Writing (ENGL 2311) for Business English A and B

### College Preparatory English\*

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.

**Course Numbers:** 0084 | CP110100

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Administrator approval

### Creative Writing \*

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.

**Course Numbers:** 0029 | 03221200

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

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

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. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** ELA.0025 | 03221500

**Blended Course Numbers:** ELA.B0025 | 03221500

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

## **English Language Development and Acquisition (ELDA)**

English Language Development and Acquisition is designed to provide instructional opportunities for secondary recent immigrant students with little or no English proficiency. This course is LPAC recommended for students who have scored at the negligible/very limited academic language level of the state-approved English oral language proficiency tests. This course enables students to become increasingly more proficient in English in reading, writing, listening and speaking and challenges them to apply higher-order thinking skills. This course will validate a student's native language and culture as a valuable resource and as a foundation to attain the English language. It will develop social language, survival vocabulary, and the basic building blocks of English literacy for newly arrived and preliterate students. This course must be taken concurrently with a corequisite language arts course, such as English I for Speakers of Other Languages (ESOL I) and English II for Speakers of Other Languages (ESOL II). Students may take this course with a different corequisite for a maximum of two credits.

**Course Numbers:** ELA.0803 | 03200800

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** LPAC Recommended

## **Practical Writing Skills**

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.

**Course Numbers:** ELA.0015 | 03221300

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Counselor or administrator approval.

## **Reading I, II and III**

This course is designed to develop and support students in need of reading, writing, and study skills. The course is designed to meet the needs of general education students or special populations, such as ESOL students.

## **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.

### **Reading I**

**Course Numbers:** 0004 | 03270700

**Language Science Course Numbers:**

ELA.00044 | 03270700

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Counselor approval; 504 or ARD Committee for Language Science

### **Reading II**

**Course Numbers:** 0006 | 03270800

**Language Science Course Numbers:**

ELA.00066 | 03270800

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Counselor approval and Reading I; 504 or ARD Committee for Language Science

### **Reading III**

**Course Numbers:** 0007 | 03270900

**Language Science Course Numbers:**

ELA.00077 | 03270900

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Counselor approval and Reading II; 504 or ARD Committee for Language Science

# NISD MATHEMATICS COURSE SEQUENCE

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## Grade 9

Algebra I \*  
Honors Algebra I \*



## Grade 10

Geometry  
Honors Geometry  
Honors/GT Geometry



## Grade 11

Financial Mathematics \*\*\*  
OR  
Advanced Math



## Grade 12

Advanced Math

**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, Honors Precalculus, or  
OnRamps Precalculus  
OnRamps Statistics (HS Independent Study credit)  
AP Calculus AB  
AP Calculus BC  
AP Computer Science A  
AP Statistics  
DC College Algebra \*\* (HS Algebra II credit)  
DC Contemporary Mathematics \*\* (HS AQR credit)  
DC Elementary Statistics \*\* (HS Independent Study credit)  
DC Precalculus \*\* (HS Precalculus credit)

\* 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 and does not meet NCAA eligibility for student-athletes.



# MATHEMATICS COURSES

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## Algebra I

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.

**Course Numbers:** 0104 | 03100500

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Pre-Algebra

## Honors Algebra I

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.

**Course Numbers:** M.0104H | 03100500

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** Pre-Algebra

## Geometry

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.

**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.

## Honors Geometry

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.

**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/GT Geometry

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.

**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.

## Financial Mathematics

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. Students will be encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. **This course does not meet NCAA eligibility for student-athletes.**

**For more information, visit [eligibilitycenter.org](http://eligibilitycenter.org)**

**Course Numbers:** 0122 | 13018000

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Algebra I or Honors Algebra I

## 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 to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets. This course is recommended to be completed before Algebra II.

**Course Numbers:** 0125 | 03102540

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Algebra I or Honors Algebra I

## **Algebra II**

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.

**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.

## **Honors Algebra II**

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.

**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/GT Algebra II**

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. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** M.0109GH | 03100600

**Blended Course Numbers:**

M.B0109GH | 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.

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

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](http://nisdtx.org/onramps).** UT Austin tuition for this course is paid to Northwest ISD. See page 30 for details.

**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

### **Algebra II Online or Off-Campus Dual Credit Opportunity**

See page 203 for more information about this opportunity.

### **DC College Algebra (MATH 1314) for Algebra II A and B**

### **Advanced Quantitative Reasoning**

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.

**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

### **Advanced Quantitative Reasoning Online or Off-Campus Dual Credit Opportunity**

See page 203 for more information about this opportunity.

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

## Precalculus

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.

**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

## Honors Precalculus

Honors Precalculus includes the same course of study designed for Precalculus. 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. Emphasis is on preparation for AP Calculus.

**Course Numbers:** M.0126H | 03101100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** Algebra I or Honors Algebra I, Geometry or Honors Geometry, and Algebra II or Honors Algebra II

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

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:** [nisdtx.org/onramps](https://nisdtx.org/onramps). UT Austin tuition for this course is paid to Northwest ISD. See page 30 for details.

**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

## Precalculus Online or Off-Campus Dual Credit Opportunity

See page 203 for more information about this opportunity.

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

## AP Calculus AB

Topics are taught at the college level and studied in depth: limits of a function, graphical analysis, differentiation, integration (both definite and indefinite), and their application to real world problems. Graphing technology will be used extensively to explore and analyze problem situations. 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 entering AP Calculus are expected to complete a summer math skills assignment to prepare for a successful start in AP Calculus. Summer prep materials can be found on the [Secondary Mathematics district website](#). Concurrent enrollment in AP Calculus AB and AP Calculus BC is not permitted.

**Course Numbers:** 0117A | A3100101

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Precalculus or Honors Precalculus

## AP Calculus BC

AP Calculus BC includes the same course of study designed for Calculus AB. Additional topics include surfaces of revolution, trigonometric integrals, sequences and series, Taylor and Maclaurin polynomials and series, derivatives of parametric equations, differentiation and integration of vector-valued functions, partial derivatives, and additional integration techniques. 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 entering AP Calculus are expected to complete a summer math skills assignment to prepare for a successful start in AP Calculus. Summer prep materials can be found on the [Secondary Mathematics district website](#). Concurrent enrollment in AP Calculus AB and AP Calculus BC is not permitted.

**Course Numbers:** 0119A | A3100102

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Precalculus or Honors Precalculus



### **AP Computer Science A**

This college level computer science course is designed to prepare students for the "A" AP Computer Science Examination and is recommended for college bound students who wish to major in computer science or an analytical field. This course includes the study of advanced programming techniques, file management, data structures and an introduction to Object-Oriented Programming. Java is the language used for completing program assignments. The district expectation is that the student will take the appropriate AP exam. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. **The student will receive two credits for this course, one for math and one for language other than English.**

**Math Course Numbers:** 0850A | A3580110

**LOTE Course Numbers:** LO.0850A | A3580120

**Credits:** 2

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Algebra I or Honors Algebra I;  
Computer Science I recommended

### **AP Statistics**

This course provides college-level work in statistics, divided into four major themes: exploratory analysis, planning a study, producing models that use probability and statistics, and confirmation of models through statistical inference. 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.

**Course Numbers:** 0128A | A3100200

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Algebra II or Honors Algebra II

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

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: [nisdtx.org/onramps](http://nisdtx.org/onramps).** UT Austin tuition for this course is paid to Northwest ISD. See page 30 for details.

**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

### **Strategic Learning for High School Mathematics**

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.

**Course Numbers:** M.1029 | N1110030

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Grade Placement Committee

### **Algebra I Lab**

The Algebra 1 Math Lab is designed to support students in meeting individual math goals necessary for achieving success in Algebra 1 and on the Algebra 1 EOC. Consecutive semester enrollment is recommended.

**Course Number:** LC.0104L

**Credits:** .5 - 1 local

**Grade Placement:** See prerequisites

**Semesters:** 1 - 2

**Weighted GPA:** NA

**Prerequisite:** Administration approval required

### **College Preparatory Mathematics**

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 ELA, Reading and Writing for TCC for the next year.

**Course Numbers:** 0085 | CP111200

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Three years of high school mathematics courses

### **Independent Study in Math Online or Off-Campus Dual Credit Opportunities**

See page 203 for more information about these opportunities.

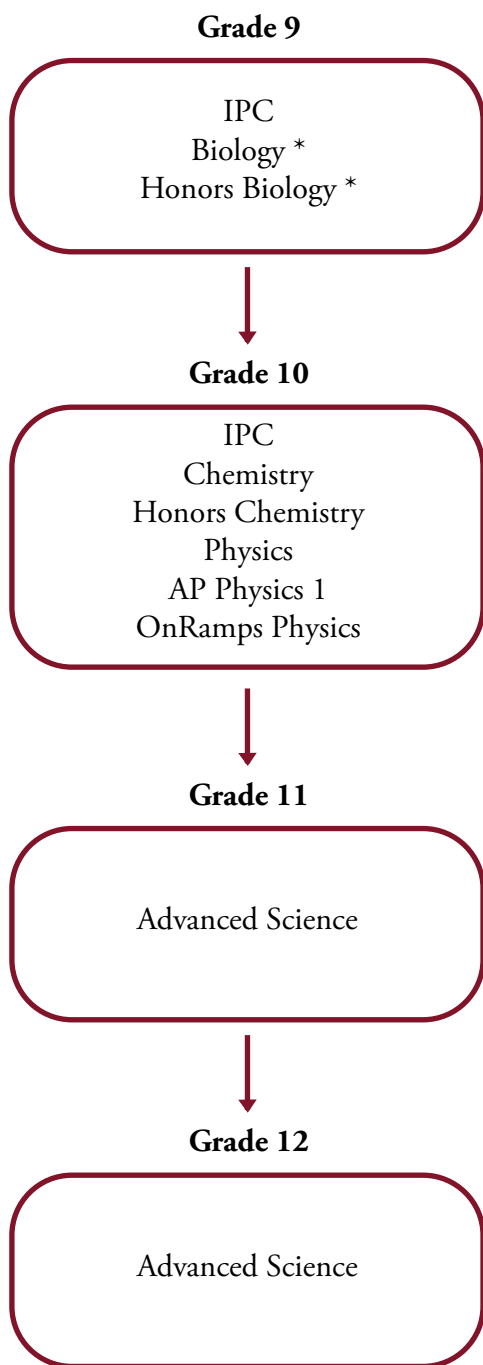
#### **DC College Algebra (MATH 1314) for Independent Study in Math A or B**

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

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

# NISD SCIENCE COURSE SEQUENCE

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## Advanced Science Courses:

Chemistry or Honors Chemistry  
Physics or OnRamps Physics  
Earth and Space Science  
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

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## Integrated Physics and Chemistry

Integrated Physics and Chemistry (IPC) is the study of physical and chemical interactions of matter. Semester I covers introductory concept in Physics, while Semester II covers introductory concepts in Chemistry. 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.**

**Course Numbers:** 0214 | 03060201

**Credits:** 1

**Grade Placement:** 9-10

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

## Biology

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.

**Course Numbers:** 0205 | 03010200

**Credits:** 1

**Grade Placement:** 9-10

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

## Honors Biology

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.

**Course Numbers:** SC.0205H | 03010200

**Credits:** 1

**Grade Placement:** 9-10

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** None

## Chemistry

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.

**Course Numbers:** 0207 | 03040000

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Biology or Honors Biology, and Algebra I or Honors Algebra I

## Honors Chemistry

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. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** SC.0207H | 03040000

**Blended Course Numbers:**

SC.B0207H | 03040000

**Credits:** 1

**Grade Placement:** 10-12 (Blended: 10-12)

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** Biology or Honors Biology, and Algebra I or Honors Algebra I. Completion or concurrent enrollment in Geometry or Honors Geometry, and Algebra II or Honors Algebra II is recommended.

## Physics

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.

**Course Numbers:** 0216 | 03050000

**Credits:** 1

**Grade Placement:** 10-12 (Blended: 10-12)

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Biology or Honors Biology, and Algebra I or Honors Algebra I

### Physics Online or Off-Campus Dual Credit Opportunities

See page 203 for more information about these opportunities.

#### DC College Physics I (PHYS 1401) for Physics A

#### DC College Physics II (PHYS 1402) for Physics B

### Chemistry Online or Off-Campus Dual Credit Opportunities

See page 203 for more information about these opportunities.

#### DC General Chemistry I (CHEM 1411) for Chemistry A

#### DC General Chemistry II (CHEM 1412) for Chemistry B

### **AP Biology**

AP Biology is a college-level biology course designed to prepare students to take the AP Biology exam. This course broadens and deepens biology content with an emphasis on inquiry, collection and analysis of complex data, and technical writing. 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. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** 0205A | A3010200

**Blended Course Numbers:** SC.AB0205 | A3010200

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Biology or Honors Biology, and Chemistry, Honors Chemistry, or concurrent enrollment in Chemistry or Honors Chemistry

### **AP Physics 1**

AP Physics 1 is a college level course designed to help students prepare for the AP Physics 1 exam. Emphasis is placed on inquiry based problem solving and technical writing. 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.

**Course Numbers:** 0217A | A3050003

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Algebra II, Honors Algebra II, or concurrent enrollment in Algebra II; it is strongly recommended that Algebra II be completed as concurrent enrollment can create inconsistencies in skills needed for success.

### **AP Physics C: Mechanics**

AP Physics C: Mechanics is a college-level course designed to help students prepare for the AP Physics exam in Mechanics. Emphasis is placed on problem solving. 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.

**Course Numbers:** 0215A | A3050006

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Honors Precalculus or concurrent enrollment in Honors Precalculus; it is strongly recommended to have credit or be concurrently enrolled in AP Calculus AB or BC.

### **AP Physics C: Electricity and Magnetism**

AP Physics C: Electricity and Magnetism is a college-level course designed to help students prepare for the AP Physics C: Electricity and Magnetism exams. 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.

**Course Numbers:** 0219A | A3050005

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** AP Physics C: Mechanics credit or concurrent enrollment in AP Calculus AB or BC



### **OnRamps Physics Dual Enrollment Physics (PHY 302K/PHYS 1301) for Physics A and B**

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:** [nisdtx.org/onramps](http://nisdtx.org/onramps). UT Austin tuition for this course is paid to Northwest ISD. See page 30 for details.

**Course Numbers:** SC.D921OR | 03050000

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Parent, counselor, principal, and college approval; Algebra I, Geometry, Recommended: Algebra II or Precalculus

### **AP Chemistry**

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

**Course Numbers:** 0207A | A3040000

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Honors Chemistry, and Algebra II or Honors Algebra II

### **AP Environmental Science**

AP Environmental Science students will investigate the interrelationships between people and the natural world. This course will integrate the sciences, including biology, chemistry, and earth science, with the social sciences to analyze contemporary environmental issues. A strong laboratory and field investigation component is included so that students can explore the issues that affect their own lives. 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.

**Course Numbers:** 0212A | A3020000

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Two years of science courses, preferably Biology or Honors Biology, and Chemistry or Honors Chemistry, or concurrent enrollment

## **Advanced Animal Science**

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. 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.

**Course Numbers:** 08182 | 13000700

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Biology or Honors Biology and Chemistry or Honors Chemistry, or IPC; Algebra I or Honors Algebra I, and Geometry or Honors Geometry; and either Small Animal Management, Equine Science, or Livestock Production. Veterinary Medical Applications recommended.

## **Anatomy and Physiology**

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. 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.

**Course Numbers:** 0211 | 13020600

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Biology or Honors Biology, and a second science credit; a course from the Health Science Career Cluster is recommended.

### **Anatomy and Physiology Online or Off-Campus Dual Credit Opportunities**

See page 203 for more information about these opportunities.

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

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

## Earth and Space Science

This course is a capstone course designed to build on students' prior scientific and academic knowledge and skills to develop a better understanding of Earth's system in space and time.

**Course Numbers:** 0204 | 03060200

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Three years of science courses, one of which may be taken concurrently, and three years of math courses, one of which may be taken concurrently

## Environmental Systems

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.

**Course Numbers:** 0213 | 03020000

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Biology and IPC, Chemistry, or Physics

## Forensic Science

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. Blended options are available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** 08591 | 13029500

**Blended Course Numbers:** CT.B08591 | 13029500

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Biology or Honors Biology and Chemistry or Honors Chemistry

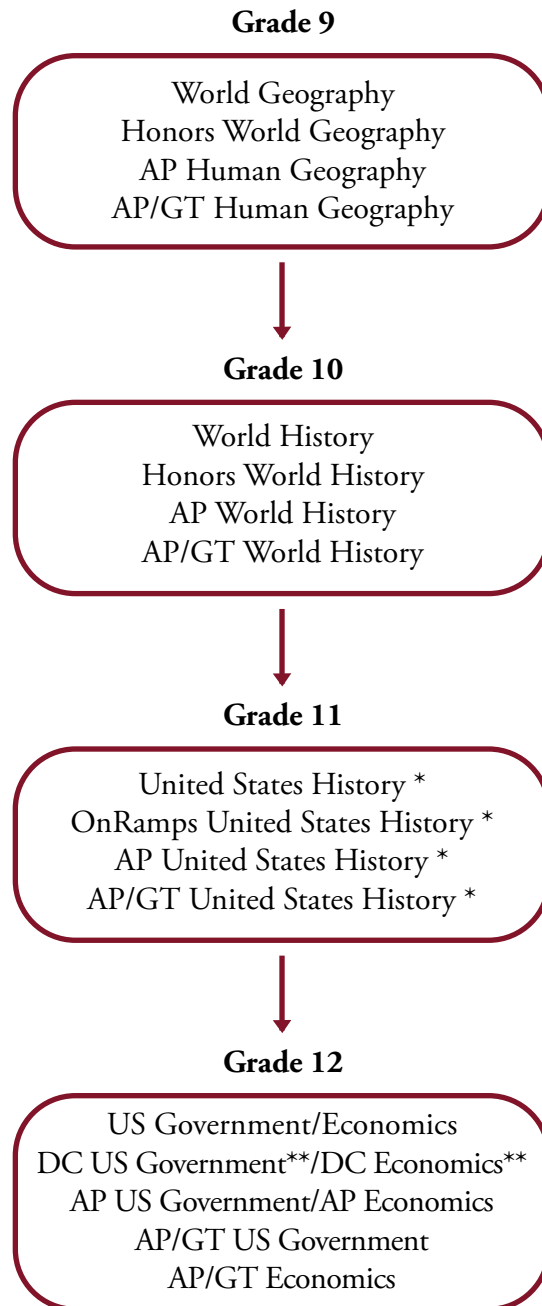
## Environmental Systems Online or Off-Campus Dual Credit Opportunity

See page 203 for more information about this opportunity.

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

# NISD SOCIAL STUDIES COURSE SEQUENCE

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

\*\* See Online or Off-Campus Dual Credit Opportunities

# SOCIAL STUDIES COURSES

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## World Geography Studies

It is recommended to participate in this course during the 9th grade year. The scope of this course will include physical, economic, and cultural geography. Emphasis will be placed on understanding the impact that environment has on the social, cultural, and economic life of a region. Stressed also will be an examination of uses, abuses, and preservation of natural resources and the physical environment.

**Course Numbers:** 0302 | 03320100

**Credits:** 1

**Grade Placement:** 9

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

## Honors World Geography Studies

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

**Course Numbers:** SS.0302H | 03320100

**Credits:** 1

**Grade Placement:** 9

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** None

## AP or AP/GT Human Geography

Serves as World Geography credit. AP Human Geography is a college-level course designed to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students will employ methods and tools of geographers, spatial concepts, and landscape analysis to examine human social organization and its environmental consequences. To meet the standards for this course, a unit on physical geography will be included to address TEKS that are not a part of the College Board course. 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.

**Course Numbers:** 0322A | A3360100

**GT Course Number:** 0322G | A3360100

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** None

## World History Studies

It is recommended to participate in this course during the 10th grade year. Beginning with the ancient river valley civilizations. World History traces the development of both Western and non-Western cultures. Throughout the study, an emphasis is placed upon the role of geography in shaping history. The course culminates with a study of developments in the world during the 20th century beginning with the world wars and ending with the problems of the 21st century.

**Course Numbers:** 0303 | 03340400

**Credits:** 1

**Grade Placement:** 10

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

### **Honors World History Studies**

Beginning with the ancient river valley civilizations. World History traces the development of both Western and non-Western cultures. Throughout the study, an emphasis is placed upon the role of geography in shaping history. The course culminates with a study of developments in the world during the 20th century beginning with the world wars and ending with the problems of the 21st century. There will be an emphasis on critical thinking, problem solving, essay writing, and analytical reading of primary as well as secondary source documents. Students will participate in collaborative groups and class presentations that focus on developing communication and higher level thinking skills.

**Course Numbers:** SS.0303H | 03340400

**Credits:** 1

**Grade Placement:** 10

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** None

### **AP or AP/GT World History**

This course will focus on the world from 1000 CE (Common Era) to the present. Students will develop critical thinking skills analyzing and interpreting primary and secondary documents and further hone their writing skills to prepare them for the AP exam. 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.

**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.

### **United States History Studies since Reconstruction**

It is recommended to participate in this course during the 11th grade year. Beginning with the ancient river valley civilizations, World History traces the development of both Western and non-Western cultures. Throughout the study, an emphasis is placed upon the role of geography in shaping history. The course culminates with a study of developments in the world during the 20th century beginning with the world wars and ending with the problems of the 21st century.

**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.



### **AP or AP/GT United States History**

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

**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.

### **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**

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:** [nisdtx.org/onramps](http://nisdtx.org/onramps). UT Austin tuition for this course is paid to Northwest ISD. See page 30 for details.

**Course Numbers:** SS.D903OR | 03340100

**Credits:** 1

**Grade Placement:** 11

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Parent, counselor, principal, and college approval

## **US Government**

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 fall US Government courses, seniors will complete and submit a Free Application for Federal Student Aid (FAFSA) or a Texas Application for State Financial Aid (TASFA). Per HB 3, students may also submit a signed opt-out form. In spring US Government courses, students will complete requirements for Instruction on Proper Interaction with Peace Officers (TAC), \$74.39.

**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.

## **AP or AP/GT US Government and Politics**

AP US Government and Politics is a college-level course designed to provide an analytical perspective on government and politics in the United States. It involves both the study of general concepts used to interpret US politics and the analysis of specific case studies. Students will understand the various institutions, groups, beliefs, and ideas that constitute US politics. 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 fall US Government courses, seniors will complete and submit a Free Application for Federal Student Aid (FAFSA) or a Texas Application for State Financial Aid (TASFA). Per HB 3, students may also submit a signed opt-out form. In spring US Government courses, students will complete requirements for Instruction on Proper Interaction with Peace Officers (TAC), \$74.39.

**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.

## **US Government Online or Off-Campus Dual Credit Opportunity**

See page 203 for more information about this opportunity.

## **DC US Government (GOVT 2305)**

### **Economics/Free Enterprise**

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. In fall Economics courses, seniors will complete and submit a Free Application for Federal Student Aid (FAFSA) or a Texas Application for State Financial Aid (TASFA). Per HB 3, students may also submit a signed opt-out form. In spring Economics courses, students will complete requirements for Instruction on Proper Interaction with Peace Officers (TAC), \$74.39.

**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.

### **Economics/Free Enterprise Online or Off-Campus Dual Credit Opportunity**

See page 203 for more information about this opportunity.

### **DC Economics (ECON 2301)**

### **AP or AP/GT Macroeconomics**

AP Macroeconomics is a college-level course designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price determination, and also develops familiarity with economic performance measures, economic growth, and international economics. The district expectation is that the student will take the appropriate AP 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 fall Economics courses, seniors will complete and submit a Free Application for Federal Student Aid (FAFSA) or a Texas Application for State Financial Aid (TASFA). Per HB 3, students may also submit a signed opt-out form. In spring Economics courses, students will complete requirements for Instruction on Proper Interaction with Peace Officers (TAC), \$74.39.

**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.

# SOCIAL STUDIES ELECTIVES

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## **AP Comparative Government and Politics**

AP Comparative Government and Politics introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures; policies; and the political, economic and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. 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 does not substitute for the state required course of US Government.

**Course Numbers:** SS.A0314 | A3330200

**Credits:** .5

**Grade Placement:** 11-12

**Semesters:** 1

**Weighted GPA:** Level 4

**Prerequisite:** None

## **AP European History**

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

**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 Human Geography**

This one semester course does not serve as World Geography credit. AP Human Geography is a college-level course designed to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students will employ methods and tools of geographers, spatial concepts, and landscape analysis to examine human social organization and its environmental consequences. 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.

**Course Numbers:** 0328A | A3360100

**Credits:** .5

**Grade Placement:** 9-12

**Semesters:** 1

**Weighted GPA:** Level 4

**Prerequisite:** None

### **Psychology**

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.

**Course Numbers:** 0314 | 03350100

**Credits:** .5

**Grade Placement:** 10-12

**Semesters:** 1

**Weighted GPA:** Level 2

**Prerequisite:** None

### **AP Psychology**

AP Psychology is a college-level introduction to psychology course. Students study the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. The district expectation is that the student will take the appropriate AP 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.** Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** 0326A | A3350100

**Blended Course Numbers:** SS.B0326 | A3350100

**Credits:** .5

**Grade Placement:** 11-12

**Semesters:** 1

**Weighted GPA:** Level 4

**Prerequisite:** None

### **Psychology Online or Off-Campus Dual Credit Opportunity**

See page 203 for more information about this opportunity.

### **DC Psychology (PSYC 2301)**

### **Social Studies/Advanced Studies and Research Methods**

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.**

**Course Numbers:** 0327A | 03380001

**Blended Course Numbers:** SS.B0327 | 03380001

**Credits:** .5

**Grade Placement:** 11-12

**Semesters:** 1

**Weighted GPA:** Level 4

**Prerequisite:** None

### **Sociology**

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.

**Course Numbers:** 0315 | 03370100

**Credits:** .5

**Grade Placement:** 10-12

**Semesters:** 1

**Weighted GPA:** Level 2

**Prerequisite:** None

### **Sociology Online or Off-Campus Dual Credit Opportunity**

See page 203 for more information about this opportunity.

**DC Sociology (SOCI 1301)**

### **Personal Financial Literacy**

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financial 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.

**Course Numbers:** 0351 | 03380082

**Credits:** .5

**Grade Placement:** 10-12

**Semesters:** 1

**Weighted GPA:** Level 2

**Prerequisite:** None

### **Special Topics in Social Studies Online or Off-Campus Dual Credit Opportunity**

See page 203 for more information about this opportunity.

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



# FINE ARTS

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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**. See specific course for further information.

## Art

### Art I

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.

**Course Numbers:** 0411 | 03500100

**Credits:** 1 Fine Art

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** None

### Art Online or Off-Campus Dual Credit Opportunity

See page 203 for more information about this opportunity.

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

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

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.

**Course Numbers:** 0412 | 03500500

**Credits:** 1 Fine Art

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** Art I

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

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.

**Course Numbers:** 0420 | 03500900

**Credits:** 1 Fine Art

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** Art I

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

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.

**Course Numbers:** 0414 | 03501300

**Credits:** 1 Fine Art

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Art II, Drawing I





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

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.

**Course Numbers:** 0417 | 03501800

**Credits:** 1 Fine Art

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Art II, Ceramics I

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

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.

**Course Numbers:** FA.0776 | 03502300

**Credits:** 1 Fine Art

**Grade Placement:** 11-12

**Semesters:** 2

**Prerequisite:** Art III, Drawing II

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

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.

**Course Numbers:** FA.0777 | 03502700

**Credits:** 1 Fine Art

**Grade Placement:** 11-12

**Semesters:** 2

**Prerequisite:** Art III, Ceramics II

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

In this course students will demonstrate their abilities to work on a wide variety of drawing/design problems. Each student will create a portfolio that will include three different sections: quality, concentration, and breadth with the intention of submittal to College Board for the AP exam. 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.

**Course Numbers:** 0413A | A3500400

**Credits:** 1 Fine Art

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Art II: 2D Drawing/Painting/Mixed Media



### **AP Studio Art: Drawing (AP Drawing)**

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

**Course Numbers:** 0415A | A3500300

**Credits:** 1 Fine Art

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Art II: 2D Drawing/Painting/Mixed Media

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

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

**Course Numbers:** 0418A | A3500500

**Credits:** 1 Fine Art

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Art II: 3D Ceramics/Sculpture

### **AP Art History**

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

**Course Numbers:** 0416A | A3500100

**Credits:** 1 Fine Art

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Art II: 2D Drawing/Painting/Mixed Media or Art II: 3D Ceramics/Sculpture

## Floral Design I

Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. To prepare for careers in floral design, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. This course satisfies the graduation requirement for Fine Arts.

**Course Numbers:** 0827 | 13001800

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Principles of Agriculture, Food, and Natural Resources recommended

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

### Band I

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. An audition is required for class placement.

**Course Numbers:** 0421 | 03150100

**Credits:** 1 Fine Art and .5 Physical Education

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** Previous band experience required.

### Band II

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.

**Course Numbers:** 0422 | 03150200

**Credits:** 1 Fine Art and .5 Physical Education

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Band I

### Band III

**Course Numbers:** 0423 | 03150300

**Credits:** 1 Fine Art

**Grade Placement:** 11-12

**Semesters:** 2

**Prerequisite:** Band II

### Band IV

**Course Numbers:** 0424 | 03150400

**Credits:** 1 Fine Art

**Grade Placement:** 12

**Semesters:** 2

**Prerequisite:** Band III





### **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**

This course will develop a student's ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. This will be accomplished through aural sight-singing, written, compositional, and analytical skills as well as exercises in listening and performance. The district expectation is that the student will take the appropriate AP 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.

**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.

### **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)**

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

**Course Numbers:** 04351 | 03150100

**Credits:** .5 Fine Art and .5 Physical Education

**Grade Placement:** 9-12

**Semesters:** 1 (fall only)

**Prerequisite:** Audition required

#### **Band II (Color Guard II)**

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

**Course Numbers:** 04361 | 03150200

**Credits:** .5 Fine Art and .5 Physical Education

**Grade Placement:** 10-12

**Semesters:** 1 (fall only)

**Prerequisite:** Color Guard I

#### **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**

This choir is open to any interested student.

Members of this performing group will study basic singing technique and music reading skills. The variety of music performed will provide students' knowledge of music in a historical and cultural context. Students will be required to participate in three major concerts during the school year.

### **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

### **Choir III**

**Course Numbers:** 0443 | 03151100

**Credits:** 1 Fine Art

**Grade Placement:** 11-12

**Semesters:** 2

**Prerequisite:** Choir II

### **Choir IV**

**Course Numbers:** 0444 | 03151200

**Credits:** 1 Fine Art

**Grade Placement:** 12

**Semesters:** 2

**Prerequisite:** Choir III



### **Vocal Ensemble I, II, III and IV**

Through large group, small group, and individual instruction, students are taught choral technique through the performance of madrigals and popular music. Students will perform at concerts, solo and ensemble contests, as well as community 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**

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/Aerobic Activity credit.

**Course Numbers:** 0711 | 03830100

**Credits:** 1 Fine Art and 1 Physical Education

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** None

#### **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)**

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.

**Course Numbers:** 0775 | 03833300**Credits:** 1 Fine Art and .5 Physical Education**Grade Placement:** 9-12**Semesters:** 2**Prerequisite:** Audition and director approval required.**Dance II, Performance Ensemble II  
(Drill Team II)**

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.

**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.**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:** None

### Technical Theatre II

**Course Numbers:** 0406 | 03250600

**Credits:** 1 Fine Art

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Technical Theatre I and director approval required.

### 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.

## **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.

#### **Orchestra II**

**Course Numbers:** 0426 | 03150600

**Credits:** 1 Fine Art

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Orchestra I

#### **Orchestra III**

**Course Numbers:** 0427 | 03150700

**Credits:** 1 Fine Art

**Grade Placement:** 11-12

**Semesters:** 2

**Prerequisite:** Orchestra II

#### **Orchestra IV**

**Course Numbers:** 0428 | 03150800

**Credits:** 1 Fine Art

**Grade Placement:** 12

**Semesters:** 2

**Prerequisite:** Orchestra III



# LANGUAGES OTHER THAN ENGLISH

Communication is the overarching goal of world languages instruction.

## Spanish

Spanish I & Spanish I Honors  
 Spanish II & Spanish II Honors  
 Spanish I-II for Spanish Speakers  
 Spanish III Honors  
 Spanish III Honors for Spanish Speakers  
 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 Language and Culture  
 DC French I  
 DC French II

## German

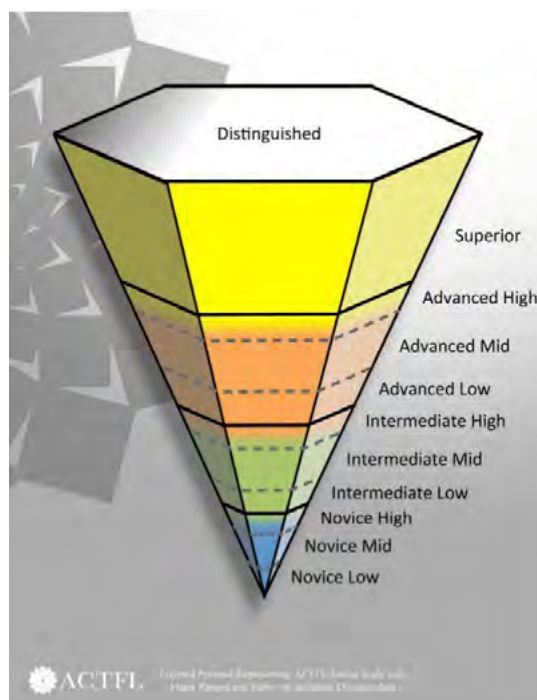
German I & German I Honors  
 German II & German II Honors  
 German III Honors  
 German IV AP Language and Culture

## American Sign Language

American Sign Language I  
 American Sign Language II

## Computer Science

Computer Science I  
 Computer Science II  
 OnRamps Computer Science I  
 AP Computer Science A





## Spanish I

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.

**Course Numbers:** 0601 | 03440100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

## Spanish I Honors

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.

**Course Numbers:** LO.0601H | 03440100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** None

## Spanish II

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. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**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 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. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**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 III 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.

**Course Numbers:** LO.0603H | 03440300

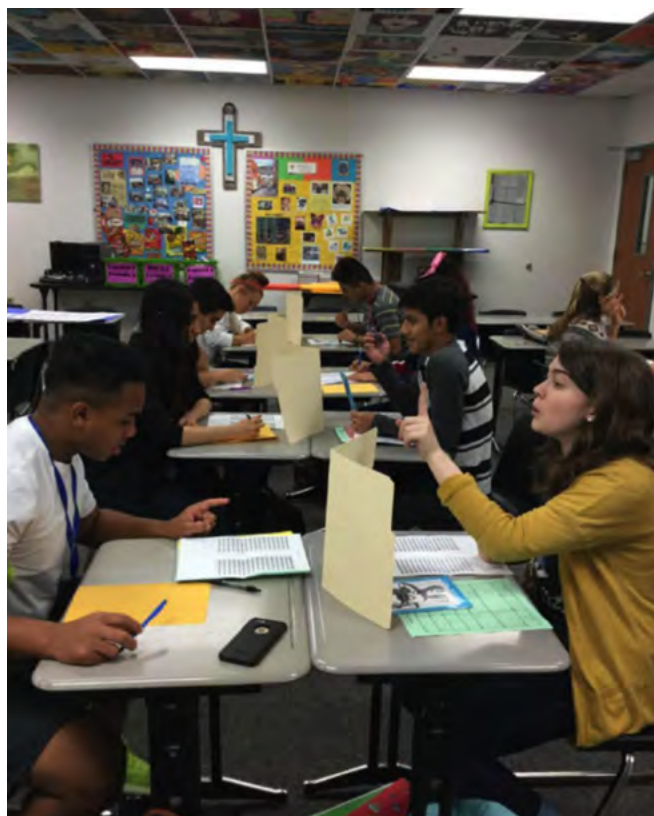
**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** Spanish II or Spanish II Honors



### Spanish IV AP Language and Culture

The AP Spanish Language and Culture course is a College Board course and emphasizes communication (understanding and being understood by others) by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, this course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. This course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). Language learners in Spanish IV AP are expected to reach an intermediate mid to intermediate high level of language proficiency at completion of study. The district expectation is that the student will take the AP Spanish Language and Culture exam.

**Course Numbers:** 0605A | A3440100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Spanish III Honors

### Spanish V AP Literature

This course uses a thematic approach to introduce students to short stories, novels, poetry, and essays from Peninsular Spanish, Latin American, and United States Hispanic literature. Students continue to develop proficiencies across the full range of the modes of communication (interpersonal, presentational, and interpretive), while refining their critical reading and analytical writing skills. Literature is examined within the context of its time and place, as students reflect on the many voices and cultures present in the required readings. This course also includes a strong focus on cultural connections and comparisons through various media. Language learners in Spanish V are expected to reach an intermediate high to advanced mid level of language proficiency at completion of study.

**Course Numbers:** LOTE.A060 | A3440200

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Spanish IV AP Language and Culture



Performance Acknowledgment in  
Bilingualism and Biliteracy

\*See page 22 for details

### **Spanish I-II for Spanish Speakers**

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.

**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 III Honors for Spanish Speakers**

Spanish III Honors for Spanish Speakers is specifically designed for students whose heritage language is Spanish and who demonstrate Spanish language proficiency. 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. Spanish III Honors for Spanish Speakers develops students' proficiency in the Spanish language and prepares students for the AP Spanish Language & Culture exam. 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 for Spanish Speakers 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.

**Course Numbers:** LO.0630H | 03440330

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** Spanish for Spanish Speakers I/II

## **French I**

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 conversation. 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.

**Course Numbers:** 0607 | 03410100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

## **French I Honors**

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 conversation. 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.

**Course Numbers:** LO.0607H | 03410100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** None

### **French I Online or Off-Campus Dual Credit Opportunity**

See page 203 for more information about this opportunity.

### **Dual Credit French I (FREN 1411) for French I A and B**

## French II

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.

**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 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.

**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 Online or Off-Campus Dual Credit Opportunity

See page 203 for more information about this opportunity.

## Dual Credit French II (FREN 1412) for French II A and B

## French III 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. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** LO.0609H | 03410300

**Blended Course Numbers:** LO.B0609H | 03410300

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** French II or French II Honors



## French IV AP Language and Culture

AP French Language and Culture is a College Board course. This course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness. Students should learn language structures in context and use them to convey meaning. In standards-based world language classrooms, the instructional focus is on function and not the examination of irregularity and complex grammatical paradigms about the target language. Language structures should be addressed inasmuch as they serve the communicative task and not as an end goal unto themselves. The AP French Language and Culture course strives to promote both fluency and accuracy in language use and not to overemphasize grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, this course is taught in the target language. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. This course develops students' awareness and appreciation of products, both tangible (e.g., tools, books, music) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products). Language learners in French IV AP are expected to reach intermediate mid to intermediate high level of proficiency at completion of this level of study. The district expectation is that the student will take the AP French Language and Culture exam. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** 0610A | A3410100

**Blended Course Numbers:**

LO.AB0610 | A3410100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** French III Honors

## German I

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.

**Course Numbers:** 0614 | 03420100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None



Performance Acknowledgment in  
Bilingualism and Biliteracy

\*See page 22 for details

## **German I Honors**

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.

**Course Numbers:** LO.0614H | 03420100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** None

## **German II**

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.

**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 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.

**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 III 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 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 German IV AP Language And Culture. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** LO.0616H | 03420300

**Blended Course Numbers:**

LO.B0616H | 03420300

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** German II or German II Honors

Performance Acknowledgment in  
Bilingualism and Biliteracy

\*See page 22 for details



### German IV AP Language and Culture

AP German Language and Culture is a College Board course. This course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness. Students should learn language structures in context and use them to convey meaning. In standards-based world language classrooms, the instructional focus is on function and not the examination of irregularity and complex grammatical paradigms about the target language. Language structures should be addressed inasmuch as they serve the communicative task and not as an end goal unto themselves. The AP German Language and Culture course strives to promote both fluency and accuracy in language use and not to overemphasize grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, the course is taught in the target language. The AP German Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of products, both tangible (e.g., tools, books, music) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products). Language learners in German IV AP are expected to reach an intermediate mid to intermediate high level of language proficiency at completion of this level of study. The district expectation is that the student will take the AP German Language and Culture exam. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** 0617A | A3420100

**Blended Course Numbers:**

LO.AB0617 | A3420100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** German III Honors

## American Sign Language

Prospective students should note that not all colleges and universities accept American Sign Language (ASL) in fulfillment of the foreign language requirement. To see if ASL satisfies the admission criteria for specific colleges/universities where language may be required, you may refer to <http://www.aslcollege.com/texas/>.

## American Sign Language I

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.

**Course Numbers:** 0660 | 03980100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

## American Sign Language II

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.

**Course Numbers:** 0661 | 03980200

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** ASL I



## Computer Science 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. Certifications will be earned in Microsoft Word and Microsoft Technology Associate- Intro to Programming Using Python and can be earned as 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.

**Course Numbers:** CT.0849 | 03580200

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Algebra I or Honors Algebra I

## OnRamps Computer Science I (CS302) for Computer Science I

OnRamps College Computer Science is a dual enrollment course that provides an introduction to the fundamental concepts of computing: how computers work, what they can do, and how they can be used effectively. Some programming is required. OnRamps Computer Science 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 may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA. **See the NISD College and Career Readiness OnRamps website for more details: [nisdtx.org/onramps](https://nisdtx.org/onramps).** UT Austin tuition for this course is paid to Northwest ISD. See page 30 for details.

**Course Numbers:** LO.D949OR | 03580200

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Parent, counselor, principal, and college approval; Algebra I, Recommended Algebra II





## Computer Science II

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 Microsoft Excel and Certified Associate in Python Programming (PCAP). This course may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA.

**Course Numbers:** CT.0859 | 03580300

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Required Prerequisite:** Algebra I, Computer Science I

## AP Computer Science A

This college level computer science course is designed to prepare students for the "A" AP Computer Science Examination and is recommended for college bound students who wish to major in computer science or an analytical field. This course includes the study of advanced programming techniques, file management, data structures and an introduction to Object-Oriented Programming. Java is the language used for completing program assignments. The district expectation is that the student will take the appropriate AP exam. This course will be included in the calculation of the weighted GPA. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. **The student will receive two credits for this course, one for math and one for language other than English.**

**Math Course Numbers:** 0850A | A3580110

**LOTE Course Numbers:** LO.0850A | A3580120

**Credits:** 2

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Algebra I or Honors Algebra I; Computer Science I recommended



# PHYSICAL EDUCATION

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## **Aerobic Fitness: Body Works**

Students enrolled in Aerobic Fitness are exposed to a variety of alternative fitness activities that promote health-related fitness. The course provides students the TEKS-based activities necessary to develop an appreciation for lifetime fitness activities. Students should expect to participate in activities such as Cardio Kickboxing, Pilates and Zumba, along with a variety of resistance training techniques. There will be an emphasis on nutrition and its impact on students' total health. Students should expect to experience mild to moderate levels of physical fitness activities.

**Course Numbers:** 0706 | PES00054

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** None

## **Foundations of Personal Fitness: Strength and Tone**

Students in this course will participate in resistance and strength training exercises. The course will consist of circuit training, sculpting, abdominal/core and toning exercises and free weight training. Students will be able to design a personal program and/or individualized training program by the end of the semester. The course provides students the knowledge, skills and fitness base through TEKS-based activities that are necessary to create a personal weight training program. Students should expect to experience mild to moderate levels of intensity.

**Course Numbers:** 0707 | PES00052

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** None

## **Individual/Team Sport**

Students enrolled in this course will be provided the opportunity to participate in three individual and three team sports. Students will gain knowledge of rules, strategies, and techniques associated with each sport. In addition, students will participate in skill related drills, cardiovascular conditioning and strength training relative to each sport.

Fall Sports - Volleyball, Flag Football and Badminton  
Spring Sports - Basketball, Tennis and Golf/Frisbee Golf

**Course Numbers:** 0703 | PES00055

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** None

## **Outdoor Education**

The Texas Parks and Wildlife Department developed the Outdoor Education course to enhance and educate students in outdoor activities and wildlife conservation. The curriculum includes: The Texas Parks and Wildlife Department's Hunter Education courses, American Heart Association's First Aid/CPR training, wilderness survival, trip planning, wildlife conservation, camping, backpacking, orienteering, archery and tackle crafts. Emphasis is placed on ethics, safety, conservation, laws, responsibilities, physical fitness and selecting activities that can be enjoyed for a lifetime.

**Course Numbers:** 0704 | PES00053

**Credits:** .5

**Grade Placement:** 9-12

**Semesters:** 1

**Prerequisite:** None

# ATHLETICS



We encourage all students to participate in some of our athletic program. 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 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 - Adventure/ Outdoor Education; PE Substitute - Cheerleading, Drill Team, and Marching Band.

### **Sports Medicine I, II, and III**

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.**

**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)

### **Baseball (Boys)**

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.

**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

### **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)**

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.

**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



### **Diving (Boys and Girls)**

Diving is practiced year-round outside of and during the school day. The dive team trains out of the NISD Aquatic Center. Reliant 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.

**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



### **Football (Boys)**

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

**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

### **Golf (Boys and Girls)**

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.

**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

### **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)**

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.

**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

### **Swimming (Boys and Girls)**

Swimming is practiced year-round outside of and during the school day. The swim team trains out of the NISD Aquatic Center. Reliant 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.

**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



### **Tennis (Boys and Girls)**

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.

**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



### **Track (Boys and Girls)**

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.

**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

### **Volleyball (Girls)**

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.

**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



### **Wrestling (Boys and Girls)**

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.

**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





# BLENDDED COURSES

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Blended learning is a student-centered approach to creating an educational experience whereby the learner interacts with other students, the instructor, and content through thoughtful integration of both online and face-to-face environments. NISD blended learning courses offer:

- Flexible learning environments
- College and career readiness skills and experiences
- Opportunities to develop future ready skills: collaboration, communication, time-management, and organization
- More opportunities for self-directed learning

NISD blended learning courses have a 60/40 ratio of face-to-face and virtual class days. In a standard five day school week, classes will meet three days face-to-face and two days virtually. For virtual days, the teacher designs thoughtful learning experiences to be completed by students with flexibility in terms of location and time. These can include online activities, forums, discussions, quizzes, etc. The teacher uses virtual day class periods to facilitate online learning, provide feedback in virtual environments, or offer face-to-face small group time. During face-to-face days, students engage in discussion, labs, guided instruction, group work, and other learning experiences one would expect to see in standard classrooms.

Please note that these courses may not be available on all campuses. Check with your campus counselor for availability.

## English

### Honors/GT English II

English II/Honors is designed for students who have shown exceptional mastery and understanding of grammar, writing, spelling, and reading. English II/Honors 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. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** ELA.B23GH | 03220200

**Credits:** 1

**Grade Placement:** 10

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** English I

### English III

English III develops 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. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** ELA.B0023 | 03220300

**Credits:** 1

**Grade Placement:** 11

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** English II

**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**

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. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability. **See the NISD College and Career Readiness OnRamps website for more details: [nisdtx.org/onramps](http://nisdtx.org/onramps).** UT Austin tuition for this course is paid to Northwest ISD. See page 30 for details.

**Blended Course Numbers:** B.D923OR | 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

**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**

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. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability. **See the NISD College and Career Readiness OnRamps website for more details: [nisdtx.org/onramps](http://nisdtx.org/onramps).** UT Austin tuition for this course is paid to Northwest ISD. See page 30 for details.

**Blended Course Numbers:** B.D924OR | 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

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

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. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** ELA.B0025 | 03221500

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** None

## **Mathematics**

### **Honors/GT Algebra II**

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. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended 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.

## **Science**

### **AP Biology**

AP Biology is a college-level biology course designed to prepare students to take the AP Biology exam.

This course broadens and deepens biology content with an emphasis on inquiry, collection and analysis of complex data, and technical writing. 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 is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** SC.AB0205 | A3010200

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** Biology or Honors Biology, and Chemistry, Honors Chemistry, or concurrent enrollment in Chemistry

### **Honors Chemistry**

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. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** SC.B0207H | 03040000

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** Biology or Honors Biology, and Algebra I or Honors Algebra I. Completion or concurrent enrollment in Geometry or Honors Geometry, and Algebra II or Honors Algebra II is recommended.

## Forensic Science

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. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** CT.B08591 | 13029500

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Biology or Honors Biology and Chemistry or Honors Chemistry

## Social Studies

### AP Psychology

AP Psychology is a college-level introduction to psychology course. Students study the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. The district expectation is that the student will take the appropriate AP 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 is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability. **AP Psychology and Social Studies/Advanced Studies and Research Methods must be taken in consecutive semesters in the same school year.**

**Blended Course Numbers:** SS.B0326 | A3350100

**Credits:** .5

**Grade Placement:** 11-12

**Semesters:** 1

**Weighted GPA:** Level 4

**Prerequisite:** None

### Social Studies/Advanced Studies and Research Methods

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.**

**Blended Course Numbers:** SS.B0327 | 03380001

**Credits:** .5

**Grade Placement:** 11-12

**Semesters:** 1

**Weighted GPA:** Level 4

**Prerequisite:** None

## Languages Other Than English

### French III 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. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** LO.B0609H | 03410300

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** French II or French II Honors

### French IV AP Language and Culture

AP French Language and Culture is a College Board course. This course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness. Students should learn language structures in context and use them to convey meaning. In standards-based world language classrooms, the instructional focus is on function and not the examination of irregularity and complex grammatical paradigms about the target language. Language structures should be addressed inasmuch as they serve the communicative task and not as an end goal unto themselves. The AP French Language and Culture course strives to promote both fluency and accuracy in language use and not to overemphasize grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, this course is taught in the target language. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. This course develops students' awareness and appreciation of products, both tangible (e.g., tools, books, music) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products). Language learners in French IV AP are expected to reach intermediate mid to intermediate high level of proficiency at completion of this level of study. The district expectation is that the student will take the AP French Language and Culture exam. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** LO.AB0610 | A3410100

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** French III Honors

### **German III 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 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 German IV AP Language And Culture. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** LO.B0616H | 03420300

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 3

**Prerequisite:** German II or German II Honors

### **German IV AP Language and Culture**

AP German Language and Culture is a College Board course. This course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness. Students should learn language structures in context and use them to convey meaning. In standards-based world language classrooms, the instructional focus is on function and not the examination of irregularity and complex grammatical paradigms about the target language. Language structures should be addressed inasmuch as they serve the communicative task and not as an end goal unto themselves. The AP German Language and Culture course strives to promote both fluency and accuracy in language use and not to overemphasize grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, the course is taught in the target language. The AP German Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of products, both tangible (e.g., tools, books, music) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products). Language learners in German IV AP are expected to reach an intermediate mid to intermediate high level of language proficiency at completion of this level of study. The district expectation is that the student will take the AP German Language and Culture exam. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** LO.AB0617 | A3420100

**Credits:** 1

**Grade Placement:** See prerequisites

**Semesters:** 2

**Weighted GPA:** Level 4

**Prerequisite:** German III Honors



## Career and Technical Education

### **Business Information Management II**

In Business Information Management (BIM) II, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** CT.B0842 | 13011500

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Business Information Management I

**Industry-Based Certifications:** Microsoft Office Specialist Certifications - Office 2019: Word Expert, Excel Expert, and Access Expert

### **Child Development**

Child Development is a technical laboratory course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children. Students participate in a Reality Works Baby Simulator Project, prepare nutritious kid-friendly snacks and meals, as well as investigate careers related to the care and education of children. Students earn Adult/Child/Infant CPR and First Aid Certification. This course is offered in blended format and may not be available on all campuses. Check with your campus counselor for availability.

**Blended Course Numbers:** CT.B0810 | 13024700

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Principles of Human Services recommended

**Certification:** Adult/Child/Infant CPR and First Aid Certification

## CTE Career Clusters and Programs of Study

### Agriculture, Food, and Natural Resources

- Animal Science
- Applied Agricultural Engineering
- Plant Science

### Architecture and Construction

- Architectural Design

### Arts, Audio/Video Technology and Communications

- **Creative Media Production Academy\***
- Design and Multimedia Arts
- Digital Communications

### Business, Marketing, and Finance

- Accounting and Financial Services
- **Business Management and Entrepreneurship Academy\***
- Business Management

### Education and Training

- Early Learning
- Teaching and Training

### Health Science

- Healthcare Diagnostics
- Healthcare Therapeutic

### Hospitality and Tourism

- **Culinary Arts and Hospitality Academy\***

### Human Services

- **Cosmetology Academy\***
- Family and Community Services

### Information Technology

- Networking Systems

### Manufacturing

- Advanced Manufacturing and Machinery Mechanics

### Science, Technology, Engineering, and Mathematics

- **Biomedical Sciences Academy\***
- Programming and Software Development
- **STEM Academy\***

### Transportation, Distribution, and Logistics

- **Aviation and Aeronautics Academy\***

\*Multiple Programs of Study may exist in each Career Academy

## Career Icons



### Career Awareness

#### Learning ABOUT Work

Build awareness of the variety of careers available and the role of postsecondary education; broaden student options.



### Career Preparation

#### Learning THROUGH Work

Apply learning through practical experience that develops knowledge and skills necessary for success in careers and postsecondary education.



### Career Exploration

#### 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.



### Career Training

#### Learning FOR Work






Train for employment and/or postsecondary education in a specific range of occupations.

# ANIMAL SCIENCE

This Program of Study corresponds to the 20-21 Veterinary Medicine Pathway.

**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](http://www.nisdtx.org/cte).)

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

## Principles of Agriculture, Food, and Natural Resources



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 earn an OSHA 10 certification.

**Course Numbers:** 0812 | 13000200

**Credits:** 1

**Grade Placement:** 9-10

**Semesters:** 2

**Required Prerequisite:** None

## Livestock Production



Livestock 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.

**Course Numbers:** CT.0818 | 13000300

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Principles of Agriculture, Food, and Natural Resources

## 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.

**Course Numbers:** 0837 | 13000600

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** Livestock Production

**Certification:** Veterinary Medical Assistant Level I

## Advanced 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.

**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 Production

**Recommended Prerequisite:** Veterinary Medical Applications

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



This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, mentorships, or laboratories. See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

**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:** Eligibility verification at district level is required. See counselor for more information.

**Recommended Prerequisite:** A minimum of one credit from the advanced courses in the Agriculture, Food, and Natural Resources Career Cluster

## Additional Opportunities

### Accelerated Livestock Production



Livestock 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.

**Course Numbers:** CT.08180 | 13000300

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 1

**Recommended Prerequisite:** Principles of Agriculture, Food, and Natural Resources

### Scientific Research and Design Agriculture, Food and Natural Resources



Scientific Research and Design is a broad-based course focused on engineering science within a specific program (examples: STEM or Agriculture). This course focuses on problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

**SRD-BL-AFNR**

**Course Numbers:** CT.B0844 | 13037200

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2





**Required Prerequisite:** Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics

# APPLIED AGRICULTURAL ENGINEERING

**This Program of Study corresponds to the 20-21 Agricultural Design and Fabrication Pathway.**

**Applied Agricultural Engineering:** Create one-of-a-kind metal art designs from start to finish for a wide variety of customers using large scale machines.

**Potential Careers:** Welder, CNC Machine Technician, or Structural Designer  
(Find more potential careers on the NISD CTE website at [www.nisdtx.org/cte](http://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



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 earn an OSHA 10 certification.

**Course Numbers:** 0812 | 13000200

**Credits:** 1

**Grade Placement:** 9-10

**Semesters:** 2

**Required Prerequisite:** None

## Agricultural Mechanics and Metal Technologies



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. This course will work toward the skills needed for an AWS welding certification.

**Course Numbers:** 0816 | 13002200

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Principles of Agriculture, Food, and Natural Resources

## Agricultural Equipment Design and Fabrication with Lab



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 Welding and OSHA 30 certifications.

**Course Numbers 1 Credit:** CT.0809 | 13002350  
**Course Numbers 2 Credits:** CT.0819 | 13002360  
**Credits:** 1-2

**Grade Placement:** 11-12

**Semesters:** 2

**Recommended Prerequisite:** Agricultural Mechanics and Metal Technologies or Teacher approval

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



This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, mentorships, or laboratories. See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

**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:** Eligibility verification at district level is required. See counselor for more information.

**Recommended Prerequisite:** A minimum of one credit from the advanced courses in the Agriculture, Food, and Natural Resources Career Cluster

## Additional Opportunities

### Welding I



This course provides the knowledge, skills, and credentials for a student to enter an entry level career in the pathway of welding. Students will gain both academic and technical skills that will prepare them for the world of work in their chosen career field. The focus of Welding I will be for students to achieve entry-level work-ready industry certifications. Students can expect to work in a laboratory setting for no less than sixty percent of their course, and will be expected to achieve their welding certifications with AWS.

**Course Numbers:** CT.922 | 13032300

**Credits:** 2

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Ag Mech Metal Tech, Principles of Agriculture, Food, and Natural Resources

### DC Introduction to Shielded Metal Arc Welding (SMAW) & DC Introduction to Gas Metal Arc Welding (GMAW) (WLDG 1428 & WLDG 1430) Welding I-A



An introduction to the shielded metal arc welding process. Emphasis placed on power sources, electrode selection, and various joint designs. & [WLDG 1430} Principles of gas metal arc welding, set-up and use of Gas Metal Arc Welding (GMAW) equipment, and safe use of tools and equipment. Instruction in various joint designs. **See the NISD College and Career Readiness website for more details:** [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)

**Course Numbers:** CT.D09221 | 13032300

**Credits:** 1

**Grade Placement:** See Prerequisites

**Semesters:** 1

**Required Prerequisite:** Parent, Counselor, Principal, and college approval.

### DC Introduction to Flux Cored Arc Welding (FCAW), Introduction to Gas Tungsten Arc Welding (GTAW), & Introduction to Layout and Fabrication (WLDG 1312, WLDG 1434, & WLDG 1417) Welding I-B



Combines three dual credit courses into the second semester of Welding I. Courses provide an overview of terminology, safety procedures, and equipment set-up. Practice in performing various joints using Flux Cored Arc Welding (FCAW) equipment; principles of gas tungsten arc welding (GTAW), including setup, GTAW equipment. Instruction in various positions and joint designs; and a fundamental course in layout and fabrication related to the welding industry. Major emphasis on structural shapes and use in construction. **See the NISD College and Career Readiness website for more details:** [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)

**Course Numbers:** CT.D0922 | 13032300

**Credits:** 1

**Grade Placement:** See Prerequisites

**Semesters:** 1

**Required Prerequisite:** Parent, Counselor, Principal, and college approval; WLDG 1430 or approval of Program Coordinator

### Scientific Research and Design Agriculture, Food and Natural Resources



Scientific Research and Design is a broad-based course focused on engineering science within a specific program (examples: STEM or Agriculture). This course focuses on problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

**SRD-BL-AFNR**

**Course Numbers:** CT.B0844 | 13037200

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2






**Required Prerequisite:** Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics

# PLANT SCIENCE

This Program of Study corresponds to the 20-21 Floral Design Pathway.

**Plant Science:** Create innovative art using flowers imported from around the world.

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

				 
<b>Recommended Course Sequence</b>	Principles of Agriculture, Food, and Natural Resources (1 credit)	Horticulture Science (1 credit)	Floral Design 1 (1 credit)	<div>■ Advanced Floral Design (1 credit)</div> <div><b>and/or</b></div> <div>■ Practicum in Agriculture (2 credits)</div>

## Principles of Agriculture, Food, and Natural Resources



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 earn an OSHA 10 certification.

**Course Numbers:** 0812 | 13000200

**Credits:** 1

**Grade Placement:** 9-10

**Semesters:** 2

**Required Prerequisite:** None

## Horticultural Science



This hands-on course prepares students to produce, process, and market horticulture plants used primarily for ornamental, recreational, and aesthetic purposes.

**Course Numbers:** 0821 | 13002000

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Principles of Agriculture, Food, and Natural Resources

## Floral Design 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 Level 1 Texas State Floral Association Student Floral Certification.

**Course Numbers:** 0827 | 13001800

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Principles of Agriculture, Food, and Natural Resources

**Certification:** Texas State Floral Association Student Certification Floral Design Level I

## Advanced Floral Design



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 2 Certification.

**Course Numbers:** CT.0862 | N1300270

**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

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



This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, mentorships, or laboratories. See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

**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:** Eligibility verification at district level is required. See counselor for more information.

**Recommended Prerequisite:** A minimum of one credit from the advanced courses in the Agriculture, Food, and Natural Resources Career Cluster

## Additional Opportunities

### Scientific Research and Design Agriculture, Food and Natural Resources



Scientific Research and Design is a broad-based course focused on engineering science within a specific program (examples: STEM or Agriculture). This course focuses on problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

#### **SRD-BL-AFNR**

**Course Numbers:** CT.B0844 | 13037200

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2





**Required Prerequisite:** Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics

# ARCHITECTURAL DESIGN

This Program of Study corresponds to the 20-21 Architectural Design and Interior Design Pathways.

**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](http://www.nisdtx.org/cte).)

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



## Principles of Architecture



This course provides an overview to 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 earn the OSHA 10-hour certification, Microsoft Word and PowerPoint Certifications.

**Course Numbers:** 0828 | 13004210

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** None

## Architectural Design I



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 AutoCAD software. Students will earn their Microsoft Excel certification and prepare for the AutoCAD certification.

**Course Numbers:** 0826 | 13004600

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Algebra I, English I

**Recommended Prerequisite:** Principles of Architecture, Geometry

## Interior Design I



Students will use knowledge and skills related to exterior and interior environments, construction, and furnishings to increase productivity, promote sustainability and compete in industry. Professional skills and employability skills, including communication and decision-making will be key parts of Interior Design I. Course studies will include principles of design and principles of space utilization for both residential and nonresidential spaces, materials presentation boards and a professional portfolio. Students will choose appropriate flooring, lighting, furniture and finishes that meet the needs of the design brief and budget. The first semester will focus on hand-drawing while the second semester will utilize AutoDesk AutoCAD software. Students will earn their Microsoft Excel certification and prepare for the AutoCAD certification.

**Course Numbers:** 0805 | 13004300

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Algebra I, English I

**Recommended Prerequisite:** Principles of Architecture or Architectural Design I

## Computer Aided Drafting for Architecture



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 will earn certification in Revit, Microsoft Word Expert and may certify in AutoCAD.

**Course Numbers:** CT.0616 | N1300429

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** None

## Architectural Design II



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. This course will embed sustainable design and LEED certification with a focus in architectural design. Students will earn their LEED certification in addition to Microsoft Excel Expert.

**Course Numbers:** 08241 | 13004700

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** Architectural Design I or Interior Design II and Geometry

## Interior Design II



This advanced laboratory course includes the application of employability characteristics, principles, technologies, tools and materials related to interior design

careers. Course studies will include working with clients, interpreting and evaluating design decisions, working on large scale CAD projects with design plans, materials boards and presentations. Students will demonstrate professional and employability skills, such as communication skills, teamwork, work habits and maintain a professional portfolio. This course will embed sustainable design and LEED certification with a focus in interior design. Students will earn their LEED certification in addition to Microsoft Excel Expert.

**Course Numbers:** 08051 | 13004400

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** English II, Geometry, Interior Design I

## Additional Opportunities

### Practicum in Architectural Design



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. Certifications will be earned in Microsoft Excel Expert and Advanced Industry Based Certification. *Students will work with their teacher, mentor and coordinator to plan their year.* See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

#### 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 is required. See counselor for more information.

### Career Preparation I



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. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

**Course Numbers:** 1300 | 12701300

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** None

# CREATIVE MEDIA PRODUCTION ACADEMY (NHS)

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**The CMP Academy aligns with two Programs of Study:**

**Digital Communications:** Audio/Video Production

**Design and Multimedia Arts:** Commercial Photography and Graphic Design and Illustration

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**Potential Careers:** Television Producer, Graphic Designer, or News Anchor  
(Find more potential careers on the NISD CTE website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).)

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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



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 animation. Adobe Creative Cloud Applications, such as Photoshop, Illustrator, Premiere, and Lightroom will be used in the course.

**Course Numbers:** 0875 | 13008200

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** None

## Audio/Video Production

### Audio/Video Production I



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.

**Course Numbers:** 2202AC | 13008500

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** Facilitator approval

## Audio/Video Production II/ Audio/Video Production II Lab (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.

**Course Numbers:** CT.0864AC | 13008610

**Credits:** 2

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Audio/Video Production I; Eligibility verification at district level is required. See Academy facilitator for more information.

## Practicum in Audio/Video Production (NHSTV) (Internship)



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 page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

**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; Eligibility verification at district level is required. See Academy facilitator for more information.

## Commercial Photography

### Commercial Photography I



This course provides students with the foundations for success in a photography career. Here, students will learn the basics of camera operation, including utilizing the exposure triangle via creative and manual camera modes, basic photo composition, and concepts for successful photography in multiple genres. They will explore lighting techniques both in the studio and in natural light settings, and how to make better use of available light. Students will also learn basic retouching and editing via Photoshop and Lightroom. With an exploration into photography history, copyright, and basic business practices, they will garner a knowledge of photography beyond simply effective image capture.

**Course Numbers:** 2106AC | 13009100

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** Eligibility verification at district level is required. See Academy facilitator for more information.

## Commercial Photography II



In this course, students will build upon the concepts established in the previous class. They will uncover more 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.

**Course Numbers:** 2108AC | 13009200

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Eligibility verification at district level is required. See Academy facilitator for more information.

**Recommended Prerequisite:** Commercial Photography I

## Commercial Photography II/ Commercial Photography II Lab



**Course Numbers:** CT.0865AC | 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 is required. See Academy facilitator for more information.

**Recommended Prerequisite:** Commercial Photography I

## Practicum in Commercial Photography (Internship)



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 page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

**PRACI-BL-AAV-CP**

**Course Numbers First Time Taken:**

CT.B861AC | 13009250

**PRACII-BL-AAV-CP**

**Course Numbers Second Time Taken:**

CT.B862AC | 13009260

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** Commercial Photography I and Commercial Photography I Lab; Eligibility verification at district level is required. See Academy facilitator for more information.

**Recommended Prerequisite:** Commercial Photography II

## Graphic Design and Illustration

### Graphic Design and Illustration I



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.

**Course Numbers:** 2102AC | 13008800

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** Eligibility verification at district level is required. See Academy facilitator for more information.



## Graphic Design and Illustration II



This course is an exploration of the elements of design and illustration including composition, color, texture, and shape. Students in this course apply creative and visual problem-

solving skills to graphic design communications using typographic, photographic and visual concepts. Software covered includes Adobe Photoshop and Illustrator. Students will start collaborating with other classes on campus and receiving peer and professional critiques on their work. Students will be exploring what they want their overall style to be and they will discover the different employment opportunities are in the graphic design career.

**Course Numbers:** 8421AC | 13008900

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Graphic Design and Illustration I; Eligibility verification at district level is required. See Academy facilitator for more information.

## 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; Course must be taken concurrently with Graphic Design and Illustration II; Eligibility verification at district level is required. See Academy facilitator for more information.

## Practicum in Graphic Design and Illustration (Internship)



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 page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

**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 is required. See counselor for more information.

# Yearbook

## Printing and Imaging Technology



This course is a year-long class which has as its main focus the production of the school yearbook. Students will work in a digital environment, creating page layouts utilizing the online tools. Students will learn the fundamentals of good design concepts for page layouts as well as the fundamentals of good photography. Students will learn the importance of meeting deadlines and working in a team to accomplish a goal. Students will also learn how to use a variety of Photoshop/ Lightroom, and Illustrator techniques to create original graphic designs.

## Printing and Imaging Technology I

**Course Numbers:** CT.923 | 13009600

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Commercial Photography I or Graphic Design and Illustration I

## Printing and Imaging Technology II/ Printing and Imaging Technology I Lab

**Course Numbers:** CT.933 | 13009610

**Credits:** 2

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Commercial Photography I or Graphic Design and Illustration I

## Printing and Imaging Technology II

**Course Numbers:** CT.924 | 13009700

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Printing and Imaging Technology I, Commercial Photography I or Graphic Design and Illustration I

## Printing and Imaging Technology II/ Printing and Imaging Technology II Lab

**Course Numbers:** CT.934 | 13009710

**Credits:** 2

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Printing and Imaging Technology I, Commercial Photography I or Graphic Design and Illustration I

## Practicum in Printing and Imaging Technology

**Course Numbers First Time Taken:**

CT.925 | 13009800

**Course Numbers Second Time Taken:**

CT.926 | 13009810

**Credits:** 2

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Printing and Imaging Technology II and Printing and Imaging Technology II Lab

**Recommended Prerequisite:** Commercial Photography I or Graphic Design and Illustration I

## Additional Opportunities

### Animation I



This course is an introduction to traditional animation. Skills learned in Animation will prepare students for a possible future in the television/ movie industry in the areas of animation, character and story development, special effects, and motion graphics. Students will digitally create both 2D animations and 3D computer-generated animations using Adobe After Effects.

**Course Numbers:** CT.2103 | 13008300

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2





**Required Prerequisite:** None

# DESIGN AND MULTIMEDIA ARTS

This Program of Study corresponds to the 20-21 Digital Media Pathway.

**Design and Multimedia Arts:** Create vibrant illustrations, animations, drawings, logos, ads, and traditional art for dynamic visual media.

**Potential Careers:** Photographer, Logo Designer, or Creative Director  
(Find more potential careers on the NISD CTE website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).)

				
Recommended Course Sequence	Principles of Arts, Audio/Video Technology, and Communications (1 credit)	Graphic Design and Illustration I (1 credit)	Commercial Photography I (1 credit)	Career Preparation I (2 credits)

## Principles of Arts, Audio/Video Technology, and Communications



This course includes an introduction to audio and video production, graphic design and illustration, and principals of animation. 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.

**Course Numbers:** 0875 | 13008200

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** None

## Graphic Design and Illustration I



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.

**Course Numbers:** CT.08421 | 13008800

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** None

## Commercial Photography I



This course provides students with the foundations for success in a photography career. Here, students will learn the basics of camera operation, including utilizing the exposure triangle via creative and manual camera modes, basic photo composition, and concepts for successful photography in multiple genres. They will explore lighting techniques both in the studio and in natural light settings, and how to make better use of available light. Students will also learn basic retouching and editing via Photoshop and Lightroom. With an exploration into photography history, copyright, and basic business practices, they will garner a knowledge of photography beyond simply effective image capture.

**Course Numbers:** 0854 | 13009100

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** None

## Career Preparation I



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. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

**Course Numbers:** 1300 | 12701300

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** None

## Additional Opportunities

### Animation I



This course is an introduction to traditional animation. Skills learned in Animation will prepare students for a possible future in the television/ movie industry in the areas of animation, character and story development, special effects, and motion graphics. Students will digitally create both 2D animations and 3D computer-generated animations using Adobe After Effects.

**Course Numbers:** CT.2103 | 13008300

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** None

### Printing and Imaging Technology (Yearbook)



This course is a year-long class which has as its main focus the production of the school yearbook. Students will work in a digital environment, creating page layouts utilizing the online tools. Students will learn the fundamentals of good design concepts for page layouts as well as the fundamentals of good photography. Students will learn the importance of meeting deadlines and working in a team to accomplish a goal. Students will also learn how to use a variety of Photoshop/ Lightroom, and Illustrator techniques to create original graphic designs.

### Printing and Imaging Technology I

**Course Numbers:** CT.923 | 13009600

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Commercial Photography I or Graphic Design and Illustration I

**Printing and Imaging Technology I/  
Printing and Imaging Technology I Lab**

**Course Numbers:** CT.933 | 13009610

**Credits:** 2

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Commercial  
Photography I or Graphic Design and Illustration I

**Printing and Imaging Technology II**

**Course Numbers:** CT.924 | 13009700

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Printing and Imaging  
Technology I, Commercial Photography I or  
Graphic Design and Illustration I

**Printing and Imaging Technology II/  
Printing and Imaging Technology II Lab**

**Course Numbers:** CT.934 | 13009710

**Credits:** 2

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Printing and Imaging  
Technology I, Commercial Photography I or  
Graphic Design and Illustration I

**Practicum in Printing and Imaging Technology**

**Course Numbers First Time Taken:**

CT.925 | 13009800

**Course Numbers Second Time Taken:**

CT.926 | 13009810

**Credits:** 2

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Printing and Imaging  
Technology II and Printing and Imaging Technology  
II Lab





**Recommended Prerequisite:** Commercial  
Photography I or Graphic Design and Illustration I

# DIGITAL COMMUNICATIONS

This Program of Study corresponds to the 20-21 Digital Media Pathway.

**Digital Communications:** 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](http://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)	Career Preparation I (2 credits)

## Principles of Arts, Audio/Video Technology, and Communications



This course includes an introduction to audio and video production, graphic design and illustration, and principals of animation. 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.

**Course Numbers:** 0875 | 13008200

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** None



## Audio/Video Production I



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.

**Course Numbers:** CT.2202 | 13008500

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** None

## Audio/Video Production I with Lab



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.

**Course Numbers:** CT.0864 | 13008510

**Credits:** 2

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** None

## Audio/Video Production II



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.

**Course Numbers:** CT.2203 | 13008600

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Audio/Video Production I; by approval only

## 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

## Career Preparation I



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. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

**Course Numbers:** 1300 | 12701300

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2





**Required Prerequisite:** None

# ACCOUNTING AND FINANCIAL SERVICES

**This Program of Study corresponds to the 20-21 Investment Banking and Finance Pathway.**

**Accounting and Financial Services:** Discover how to manage personal wealth and financial stability for business. Investigate financial principles, systems, and processes for business operations and personal financial responsibility.

**Potential Careers:** Accountant and Auditor, Bookkeeper, Financial Account Representative (Find more potential careers on the NISD CTE website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).)

				
Recommended Course Sequence	Principles of Business, Marketing and Finance (1 credit)	Accounting I (1 credit)	Financial Mathematics (1 credit)	Practicum in Business Management (2 credits) <b>or</b> Career Preparation I (2 credits)

## Principles of Business, Marketing, and Finance



In this course students explore basic business operations for the sale of goods and services, advertising strategies businesses use, and financial management for business.

**Course Numbers:** CT.0868 | 13011200

**Credits:** 1

**Grade Placement:** 9-11

**Semesters:** 2

**Required Prerequisite:** None

## Accounting I



Students investigate the field of accounting, and the processes of recording, reporting, and disclosing financial information for a business. Students formulate and interpret

financial information for use in management decision making.

**Course Numbers:** 0506 | 13016600

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Principles of Business, Marketing, and Finance

**Certification:** Intuit QuickBooks Certified User

## Financial Mathematics



Students apply critical thinking skills to analyze personal financial decisions based on current and projected economic factors. Students learn life math such as stocks,

taxes, loans, credit cards and financial literacy.

This course satisfies a high school mathematics graduation requirement. **This course does not meet NCAA eligibility for student-athletes. For more information, visit [eligibilitycenter.org](http://eligibilitycenter.org)**

**Course Numbers:** 0122 | 13018000

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Algebra I

## Practicum in Business Management (Internship)



Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills in.

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 page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

### 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 is required. See counselor for more information.

**Recommended Prerequisite:** Business Management or Business Information Management I

## Career Preparation I



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. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

**Course Numbers:** 1300 | 12701300

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** None

## Additional Opportunities

### Business Information Management I



Students develop technical skills creating word-processing documents, spreadsheets, creating presentations, and using email client/personal information manager using Microsoft

Office software. Students will be expected to complete Microsoft Certification exams throughout the course.

**Course Numbers:** 0839 | 13011400

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** None

**Industry-Based Certifications:** Microsoft Office Specialist Certifications - Office 2019: Word Associate, Excel Associate, Outlook Associate, and PowerPoint Associate

# BUSINESS MANAGEMENT AND ENTREPRENEURSHIP ACADEMY (EHS)

**The BME Academy is a combination of these Programs of Study:**

**Accounting and Financial Services**





**Business Management**

**Entrepreneurship**

**Marketing and Sales**

**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](http://www.nisdtx.org/cte).)

				
Recommended Course Sequence	<b>BME Fundamentals</b> Principles in Business, Marketing, and Finance (1 credit)	<b>BME Operations I</b> Virtual Business (.5 credit) <b>and</b> <b>BME Operations II</b> Social Media Marketing (.5 credit)	<b>BME Innovation</b> Entrepreneurship (1 credit)	<b>BME Capstone</b> Practicum in Business Management/VEI (2 credits)

## Principles of Business, Marketing, and Finance (BME Fundamentals)



In this unique hands-on business startup experience, students are challenged to solve a problem or fill in a need in their community and have the opportunity to experience the thrill of launching and operating a business. Students explore the sale of goods and services, advertising and marketing strategies businesses implement, and financial management for a business. Students begin industry-recognized certification training in Microsoft Office and additional industry recognized certifications.

**Course Numbers:** CT.0868AC | 13011200

**Credits:** 1

**Grade Placement:** 9 (or 10 by Facilitator Approval)

**Semesters:** 2

**Required Prerequisite:** Academy facilitator approval

## Virtual Business (BME Operations I)



The opportunity in this course focuses on virtual (e-commerce) business development and establishing a web presence. Students continue their pursuit of Microsoft Office and additional industry recognized certifications.

**Course Numbers:** 81081AC | 13012000

**Credits:** .5

**Grade Placement:** 10

**Semesters:** 1

**Required Prerequisite:** Academy facilitator approval

## Social Media Marketing (BME Operations II)



Students learn the skills to become effective social media marketers by simulating social media activities for a business. Students explore current social media platforms and develop social marketing strategies and plans.

**Course Numbers:** CT.0512AC | 13034650

**Credits:** .5

**Grade Placement:** 10

**Semesters:** 1

**Required Prerequisite:** Academy facilitator approval

## Entrepreneurship (BME Innovation)



The primary focus of the course is to help students understand the process of analyzing business opportunities, determining feasibility of an idea using research, and developing a business plan from startup company to exit strategy. Students explore case studies in global business to learn about strategies for success in business.

**Course Numbers:** 8104AC | 13034400

**Credits:** 1

**Grade Placement:** 11

**Semesters:** 2

**Required Prerequisite:** Academy facilitator approval

## 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. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. In order to participate in internships or Virtual Enterprises International students will need prior approval from the academy facilitator. See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://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

### PRACII-BL-BUSM (VEI)

#### Course Numbers Second Time Taken:

CT.B875AC | 13012210

**Credits:** 2

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** Academy facilitator Approval; Eligibility verification at district level is required. See Academy facilitator for more information.

## Practicum in Business Management (BME Capstone) (Internship)



### PRACI-BL-BUSM (AC)

#### Course Numbers First Time Taken:

CT.B845AC | 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 is required. See Academy facilitator for more information.

**Recommended Prerequisite:** Principles of Business, Marketing, and Finance, Virtual Business, Social Media Marketing, and Entrepreneurship

## Additional Opportunities

### Accounting I



Students investigate the field of accounting, and the processes of recording, reporting, and disclosing financial information for a business.

Students formulate and interpret financial information for use in management decision making.

**Course Numbers:** CT.0506AC | 13016600

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** None

**Certification:** Intuit QuickBooks Certified User

### Financial Mathematics



Students apply critical thinking skills to analyze personal financial decisions based on current and projected economic factors. Students learn life math such as stocks, taxes, loans, credit cards and financial literacy. This course satisfies a high school mathematics graduation requirement. **This course does not meet NCAA eligibility for student-athletes. For more information, visit [eligibilitycenter.org](http://eligibilitycenter.org)**

**Course Numbers:** 0122 | 13018000

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Algebra I

### Business Law



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.

**Course Numbers:** CT.0504 | 13011700

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Recommended Prerequisite:** Business Information Management I








# BUSINESS MANAGEMENT

This Program of Study corresponds to the 20-21 Business Administration Pathway.






**Business Management:** Develop foundational business knowledge, industry recognized skills, and the 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](http://www.nisdtx.org/cte).)

## Option 1: Recommended Course Sequence

		 	
Principles of Business, Marketing and Finance (1 credit)	Business Management (1 credit)	<div>■ Business Law (1 credit)</div> <div>or</div> <div>■ Business Information Management I (1 credit)</div>	Practicum in Business Management (2 credits)

## Option 2: Recommended Course Sequence

			 
Principles of Business, Marketing and Finance (1 credit)	Business Information Management I (1 credit)	Business Information Management II (1 credit)	<div>■ Business Management (1 credit)</div> <div>or</div> <div>■ Practicum in Business Management (2 credits)</div> <div>or</div> <div>■ Career Preparation I (2 credits)</div>

## Principles of Business, Marketing, and Finance



In this course students explore basic business operations for the sale of goods and services, advertising strategies businesses use, and financial management for business.

**Course Numbers:** CT.0868 | 13011200

**Credits:** 1

**Grade Placement:** 9-11

**Semesters:** 2

**Required Prerequisite:** None

## Business Management



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.

**Course Numbers:** CT.8101 | 13012100

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Principles of Business, Marketing, and Finance

## Business Information Management I



Students develop technical skills creating word-processing documents, spreadsheets, creating presentations, and using email client/personal information manager using Microsoft

Office software. Students will be expected to complete Microsoft Certification exams throughout the course.

**Course Numbers:** 0839 | 13011400

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** None

**Industry-Based Certifications:** Microsoft Office Specialist Certifications - Office 2019: Word Associate, Excel Associate, Outlook Associate, and PowerPoint Associate

## Business Law



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.

**Course Numbers:** CT.0504 | 13011700

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Recommended Prerequisite:** Business Information Management I

## Business Information Management II



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. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** 0840 | 13011500

**Blended Course Numbers:** CT.B0842 | 13011500

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Business Information Management I

**Industry-Based Certifications:** Microsoft Office Specialist Certifications - Office 2019: Word Expert, Excel Expert, and Access Expert

## Practicum in Business Management (Internship)



Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills in.

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 page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

### 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 is required. See counselor for more information.

**Recommended Prerequisite:** Business Management or Business Information Management I

## Career Preparation I



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. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

**Course Numbers:** 1300 | 12701300

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2





**Required Prerequisite:** None







# EARLY LEARNING

This Program of Study corresponds to the 20-21 Early Childhood Development Pathway.

**Early 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](http://www.nisdtx.org/cte).)

Route 1: Recommended Course Sequence		
9th Grade		Principles of Human Services (1 credit)
10th Grade		Child Development (1 credit)
11th Grade		Child Guidance (2 credits)
12th Grade		Practicum of 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		Child Development (1 credit)
11th Grade		Child Guidance (2 credits)
12th Grade		Practicum of Human Services (2 credits)

### Principles of Human Services



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.

**Course Numbers:** 0801 | 13024200

**Credits:** 1

**Grade Placement:** 9-11

**Semesters:** 2

**Required Prerequisite:** None

### Family and Community 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.

**Course Numbers:** CT.0100 | 13024900

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Recommended Prerequisite:** Principles of Human Services

## Child Development



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. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** CT.0810 | 13024700

**Blended Course Numbers:** CT.B0810 | 13024700

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Principles of Human Services or Principles of Education

**Certification:** Heartsaver CPR and First Aid Certification

## Child Guidance (Internship)



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.

**Course Numbers:** CT.0820 | 13024800

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2

**Recommended Prerequisites:** Principles of Human Services and Child Development

**Required Prerequisite:** Eligibility verification at district level is required. See counselor for more information.

## Practicum in Human Services (Internship)



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 page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

**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 is required. See counselor for more information.

## Practicum in Human Services/Extended Practicum in Human Services (Internship)



See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

**PRAC-EXI-HUMS**

**Course Numbers First Time Taken:**

CT.B876AC | 13025005

**PRAC-EXII-HUMS**

**Course Numbers Second Time Taken:**

CT.B0886 | 13025015

**Credits:** 3

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** Facilitator approval; Eligibility verification at district level is required. See counselor for more information. Must enroll concurrently in Practicum in Human Services.













# TEACHING AND TRAINING

This Program of Study corresponds to the 20-21 Education and Coaching Pathway.

**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](http://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		Instructional Practices (2 credits)
12th Grade		Practicum in Education and Training (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		Principles of Education and Training (1 credit)
10th Grade		Child Development (1 credit)
11th Grade		Instructional Practices (2 credits)
12th Grade		Practicum in Education and Training (2 credits)

### Principles of Education and Training



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.

**Course Numbers:** 08071 | 13014200

**Credits:** 1

**Grade Placement:** 9-11

**Semesters:** 2

**Required Prerequisite:** None

### Child Development



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. Blended option available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** CT.0810 | 13024700

**Blended Course Numbers:** CT.B0810 | 13024700

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Principles of Human Services or Principles of Education

**Certification:** Heartsaver CPR and First Aid Certification

### Instructional Practices (Internship)



This course is a 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 plan and direct instruction, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, and other educational personnel.

**Course Numbers:** 0808 | 13014400

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2

**Recommended Prerequisites:** Principles of Education and Training and Child Development

**Required Prerequisite:** Eligibility verification at district level is required. See counselor for more information.

### Practicum in Education and Training (Internship)



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, eligibility verification at district level is required. See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

**PRACI-BL-EDTR**

**Course Numbers First Time Taken:**

CT.B0809 | 13014500

**PRACII-BL-EDTR**

**Course Numbers Second Time Taken:**

CT.B8191 | 13014510

**Credits:** 2

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** Instructional Practices; Eligibility verification at district level is required. See counselor for more information.

**Certifications:** Educational Aide I

### Practicum in Education and Training/ Extended Practicum in Education and Training (Internship)



**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:** 12

**Semesters:** 2





**Required Prerequisite:** Instructional Practices; Eligibility verification at district level is required. See counselor for more information. Must enroll concurrently in Practicum in Education and Training.

# HEALTHCARE DIAGNOSTICS

This Program of Study corresponds to the 20-21 Emergency Medical Technician Pathway.

**Healthcare Diagnostics:** The Healthcare Diagnostics program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

**Potential Careers:** Emergency Medical Technician, Flight Paramedic, or Infection Control Consultant  
(Find more potential careers on the NISD CTE website at [www.nisdtx.org/cte](http://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 (EMT) (2 credits)

## Principles of Health Science



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.

**Course Numbers:** 0890 | 13020200

**Credits:** 1

**Grade Placement:** 9

**Semesters:** 2

**Required Prerequisite:** None

**Certifications:** OSHA 10 Healthcare and Heartsaver CPR

## Health Science Theory



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.

**Course Numbers:** 0895 | 13020400

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Biology

## Anatomy and Physiology



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.

**Course Numbers:** 0211 | 13020600

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Required Prerequisite:** Biology and a second science credit

## Additional Opportunities

### Medical Terminology (Online 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.

**Course Numbers:** 0891 | 13020300

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** None

## Practicum in Health Science

### (Emergency Medical Technician) (Internship)



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 Emergency Medical Technician is required at the end of the course. See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte). **\*Additional requirements and documents for this course.**

### 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; Eligibility verification at district level is required. See counselor for more information.

**Recommended Prerequisite:** Anatomy and Physiology





**Certification:** Emergency Medical Technician, OSHA 30 Healthcare, and Adult/Child/Infant BLS CPR

# HEALTHCARE THERAPEUTIC

**This Program of Study corresponds to the 20-21 Health Sciences Pathway.**

**Healthcare Therapeutic:** The Healthcare Therapeutic program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

**Potential Careers:** Medical Assistant, X-Ray Technician, or Registered Nurse  
(Find more potential careers on the NISD CTE website at [www.nisdtx.org/cte](http://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 (Certified Medical Assistant) (2 credits)

## Principles of Health Science



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.

**Course Numbers:** 0890 | 13020200

**Credits:** 1

**Grade Placement:** 9

**Semesters:** 2

**Required Prerequisite:** None

**Certifications:** OSHA 10 Healthcare and Heartsaver CPR

## Health Science Theory



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.

**Course Numbers:** 0895 | 13020400

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Biology



## Anatomy and Physiology



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.

**Course Numbers:** 0211 | 13020600

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Required Prerequisite:** Biology and a second science credit

## Additional Opportunities

### Medical Terminology (Online 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.

**Course Numbers:** 0891 | 13020300

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** None

## Practicum in Health Science (Certified Medical Assistant) (Internship)



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 CMA is required at the end of the course. See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte). **\*Additional requirements and documents for this course.**

**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; Eligibility verification at district level is required. See counselor for more information.





**Certification:** Certified Medical Assistant, OSHA 30 Healthcare, and Adult/Child/Infant BLS CPR

# CULINARY ARTS AND HOSPITALITY ACADEMY (BNHS)

CAHA 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:** Barista, Restaurant Manager, or Executive Chef  
(Find more potential careers on the NISD CTE website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).)

				
<b>Recommended Course Sequence</b>	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	TSIA-2 Requirement and/or Prerequisite
<b>Sophomore Year</b> Introduction to Culinary Arts (1 HS Credit)	Sanitation and Safety (CHEF 1305)	3	Facilitator Approval
<b>Junior Year</b> Culinary Arts (2 HS Credits)	Basic Food Preparation (CHEF 1301)	3	Facilitator Approval
	Fundamentals of Baking (PSTR 1301)	3	Facilitator Approval
<b>Senior Year</b> Practicum in Culinary Arts (3 HS Credits)	Advanced Food Preparation (CHEF 2331)	3	CHEF 1305 with a "C" or better
	Practicum / Chef Training (CHEF 1264)	3	Facilitator Approval

## Principles of Hospitality and Tourism



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.

**Course Numbers:** 7101AC | 13022200

**Credits:** 1

**Grade Placement:** 9

**Semesters:** 2

## Introduction to Culinary Arts



Students will develop an understanding of the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.

**Course Numbers:** 7103AC | 13022550

**Credits:** 1

**Grade Placement:** 10

**Semesters:** 2

**Recommended Prerequisite:** Principles of Hospitality and Tourism

## DC Sanitation and Safety (CHEF 1305) for Introduction to Culinary Arts



Students will develop an understanding of the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills.

This is an entry level course for students interested in pursuing a career in the food service industry.

This course is offered as a classroom and laboratory-based course. **See the NISD College and Career**

**Readiness website for more details:** [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr).

**Course Numbers:** D7103AC | 13022550

**Credits:** 1

**Grade Placement:** 10

**Semesters:** 2

**Required Prerequisite:** Parent, counselor, principal, and college approval

**Recommended Prerequisite:** Principles of Hospitality and Tourism

## Culinary Arts



Students learn the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course.

**Course Numbers:** 7104AC | 13022600

**Credits:** 2

**Grade Placement:** 11

**Semesters:** 2

**Recommended Prerequisite:** Introduction to Culinary Arts

**Certification:** Serve Safe Food Handlers

## DC Basic Food Prep and Fundamentals of Baking (CHEF 1301 and PSTR 1301) for Culinary Arts



Students learn the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a

national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course.

**Course Numbers:** D7104AC | 13022600

**Credits:** 2

**Grade Placement:** 11

**Semesters:** 2

**Required Prerequisite:** Parent, counselor, principal, and college approval

**Recommended Prerequisite:** Introduction to Culinary Arts

**Certification:** Serve Safe Food Handlers

## DC Advanced Food Prep and Practicum/Chef Training (CHEF 2331 and 1264) for Practicum in Culinary Arts/Extended Practicum in Culinary Arts (Internship)



Integration of academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community

institutions with the goal of preparing students with a variety of skills in a fast-changing workplace.

Students will have the opportunity to work in the Byron Bistro. See page 192 for additional information on internships or visit our website at

[www.nisdtx.org/cte](http://www.nisdtx.org/cte).

**Course Numbers:** CTD7200AC | 13022705

**Credits:** 3

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** Parent, counselor, principal, and college approval; Eligibility verification at district level is required. See Academy facilitator for more information.

## Practicum in Culinary Arts/Extended Practicum in Culinary Arts (Internship)



Integration of academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and

community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students will have the opportunity to work in the Byron Bistro. See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

**PRAC-EXI-BL-CULN**

**Course Numbers First Time Taken:**

CT.B720AC | 13022705

**PRAC-EXII-BL-CULN**

**Course Numbers Second Time Taken:**

CT.B722AC | 13022715

**Credits:** 3

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** Eligibility verification at district level is required. See Academy facilitator for more information.

# Culinary Academy Dual Credit Courses

Students may choose to take culinary courses for high school credit only or as dual credit courses and receive both high school and college credit. Additional fees and course requirements may be associated with the dual credit option.

## **Sanitation and Safety**

A study of personal cleanliness; sanitary practices in food preparation; causes, investigation, control of illness caused by food contamination (Hazard Analysis Critical Control Points); and workplace safety standards. This course must be completed with a grade of "C" or better.

**Course Number:** CHEF 1305

**College Semester Hours:** 3

**Lecture Hours:** 3

**Laboratory Hours:** 1

## **Basic Food Preparation**

A 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. The student will discuss and prepare various stocks, sauces, soups, fruit, vegetables, starches, sandwiches, salads and dressings. Culinary lab classes require extended periods of time standing in place, lifting heavy weights (up to 60 pounds), reaching, bending, working around open flames and with cleaning chemicals. This course must be completed with a grade of "C" or better. This course requires practical knowledge of requirements for Food and Sanitation Guidelines as set by Health and Safety Standards. (2 Lec., 4 Lab.)

**Course Number:** CHEF 1301

**College Semester Hours:** 3

**Lecture Hours:** 2

**Laboratory Hours:** 4

## **Fundamentals of Baking**

Fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts, and doughnuts. 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. Baking and pastry lab classes require extended periods of time standing in place, lifting heavy weights (up to 60 pounds), reaching, bending, working around open flames and with cleaning chemicals. This course must be completed with a grade of "C" or better. This course requires practical knowledge and use of baking techniques and equipment.

**Course Number:** PSTR 1301

**College Semester Hours:** 3

**Lecture Hours:** 2

**Laboratory Hours:** 4

## **Advanced Food Preparation**

Topics include the concept of pre-cooked food items and the preparation of canapes, hors d'oeuvres, and breakfast items. Meat, seafood, and poultry preparation, baking and menu planning are also included. The student will discuss and review Basic Food Preparation. Culinary lab classes require extended periods of time standing in place, lifting heavy weights (up to 60 pounds), reaching, bending, working around open flames and with cleaning chemicals.

**Course Number:** CHEF 2331

**College Semester Hours:** 3

**Lecture Hours:** 2

**Laboratory Hours:** 4




**Required Prerequisite:** CHEF 1305 with a "C" or better

# COSMETOLOGY ACADEMY (SAHS)

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 Esthetician, Salon/Spa Manager, or Dermatology/Medical Spa Assistant  
(Find more potential careers on the NISD CTE website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).)

				
<b>Recommended Course Sequence</b>	<b>No 9th Grade course offered in 21-22.</b>	Principles of Cosmetology Design and Color Theory (1 credit)	Cosmetology I with Lab (3 credits)	Cosmetology II with Lab (3 credits)



## Principles of Cosmetology Design and Color Theory



Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and

skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Students may begin to earn Texas Department of Licensing and Regulation (TDLR) hours toward a Cosmetology Operator License.

**Course Numbers:** CT.9107AC | 13025050

**Credits:** 1

**Grade Placement:** 10

**Semesters:** 2

## Cosmetology I with Lab



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.

**Course Numbers:** CT.9112AC | 13025210

**Credits:** 3

**Grade Placement:** 10-11

**Semesters:** 2

## Cosmetology II with Lab



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.

**Course Numbers:** CT.9113AC | 13025310

**Credits:** 3

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** Cosmetology I





**Certification:** Cosmetology License







# FAMILY AND COMMUNITY SERVICES

This Program of Study corresponds to the 20-21 Counseling and Mental Health Pathway.

**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](http://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



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.

**Course Numbers:** 0801 | 13024200

**Credits:** 1

**Grade Placement:** 9-11

**Semesters:** 2

**Required Prerequisite:** None

### Family and Community 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.

**Course Numbers:** CT.0100 | 13024900

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Recommended Prerequisite:** Principles of Human Services

## Counseling and Mental Health



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.

**Course Numbers:** 0893 | 13024600

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Recommended Prerequisite:** Principles of Human Services and Family and Community Services

## Practicum in Human Services (Internship)



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 page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

### 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 is required. See counselor for more information.

## Practicum in Human Services/Extended Practicum in Human Services (Internship)



See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

### PRAC-EXI-HUMS

**Course Numbers First Time Taken:**

CT.B876AC | 13025005

### PRAC-EXII-HUMS

**Course Numbers Second Time Taken:**

CT.B0886 | 13025015

**Credits:** 3

**Grade Placement:** 11-12

**Semesters:** 2





**Required Prerequisite:** Facilitator approval; Eligibility verification at district level is required. See counselor for more information. Must enroll concurrently in Practicum in Human Services.

# NETWORKING SYSTEMS

This Program of Study corresponds to the 20-21 Information Technology Pathway.

**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](http://www.nisdtx.org/cte).)

				
Recommended Course Sequence	Principles of Information Technology (1 credit)	Computer Maintenance (1 credit)	Networking (1 credit)	Practicum in Information Technology (2 credits)
				Independent Study in Technology Applications (1 credit)

## Principles of Information Technology



In this course, students will develop computer literacy skills, enhance reading, writing, communication and reasoning skills and apply them to the information technology

environment using TestOut Curriculum. Students demonstrate knowledge of both software & hardware systems within IT and gain employability and professional skills. Coursework includes word processing, spreadsheets, programming languages, databases, presentations, web design and portfolio development. Students will investigate the legal and ethical practices as they relate to IT. Certifications will be earned in Fundamentals Pro, Microsoft Word, and PowerPoint. Students may prepare for the CompTIA Fundamentals exam.

**Course Numbers:** CT.0846 | 13027200

**Credits:** 1

**Grade Placement:** 9-10

**Semesters:** 2

**Required Prerequisite:** None

## Computer Maintenance



Students will apply technical skills to address the IT industry and emerging technologies using TestOut Curriculum. The course will include knowledge of computer maintenance,

hardware design & operation, operating systems, installation of software, evaluation of software applications and configuration of network systems. Students will work through IT maintenance simulations to troubleshoot computer software and hardware problems to diagnose issues. Course work will include certifications in PC Pro and Microsoft Excel. Students may prepare for the CompTIA A+ exam.

**Course Numbers:** CT.918 | 13027300

**Credits:** 1

**Grade Placement:** 10–12

**Semesters:** 2

**Required Prerequisite:** Principles of Information Technology

## Networking



Students will develop knowledge and skills related to data networking technologies and practices to apply them in personal or career development using TestOut Curriculum. Course studies will

include professional skills such as communication and problem solving as well as working with a customer. Students will be able to analyze telecommunications and data network services to address industry needs. Course work will include creating a network design plan with appropriate documentation and a preventative maintenance plan. Certifications will be earned in Network Pro and Microsoft Word Expert. Students may prepare for the CompTIA Network+ exam.

**Course Numbers:** CT.919 | 13027400

**Credits:** 1

**Grade Placement:** 10–12

**Semesters:** 2

**Recommended Prerequisites:** Principles of Information Technology, Computer Maintenance

## Independent Study in Technology Applications



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. Certifications will be earned in Microsoft Excel Expert and a CompTIA certification. *Students will work with their teacher, mentor and coordinator to plan their year.*

### INDSTUDY-IT

**Course Numbers:** 0834 | 03580900

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** Eligibility verification at district level is required. See counselor for more information.

**Recommended Prerequisite:** A minimum of one credit from the courses in the Information Technology Career Cluster



## Practicum in Information Technology



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. Certifications will be earned in Microsoft Excel Expert and a CompTIA certification. *Students will work with their teacher, mentor and coordinator to plan their year.*

### **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 is required. See counselor for more information.

## Additional Opportunities

### Computer Science 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. Certifications will be earned in Microsoft Word and Microsoft Technology Associate- Intro to Programming Using Python and can be earned as 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.

**Course Numbers:** CT.0849 | 03580200

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2





**Required Prerequisite:** Algebra I

# ADVANCED MANUFACTURING AND MACHINERY MECHANICS

This Program of Study corresponds to the 20-21 Engineering Dynamics Pathway.

**Advanced Manufacturing and Machinery Mechanics:** Partner with structural, mechanical, electrical, and industrial engineering firms to gain real-world experience.

**Potential Careers:** Engineering Technician, Metal Model Maker, or Mechanical Engineer  
(Find more potential careers on the NISD CTE website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).)

				
Recommended Course Sequence	Blueprint Reading for Manufacturing (1 credit)	<p><b>This program is being developed.</b></p> <p><b>New courses will be available in 22-23.</b></p>		

## Blueprint Reading for Manufacturing Applications



This course is an introduction to reading and interpreting working drawings for fabrication processes and associated trades. 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. Certifications will be earned in OSHA (10-hr) and Microsoft Word.

**Course Numbers:** CT.0882 | N1303684

**Credits:** 1

**Grade Placement:** 9-10

**Semesters:** 2

**Required Prerequisite:** None

## Additional Opportunities

### Career Preparation I



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. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

**Course Numbers:** 1300 | 12701300

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2





**Required Prerequisite:** None

# BIOMEDICAL SCIENCES ACADEMY (BNHS)

**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](http://www.nisdtx.org/cte).)

	9th Grade	10th Grade	11th Grade	12th Grade
<b>PLTW Academy Courses</b>	 PLTW Principles of Biomedical Sciences (PBS) (1 credit)	 PLTW Human Body Systems (HBS) (1 credit)	 PLTW Medical Interventions (MI) (1 credit)	 PLTW Biomedical Innovation (BI) (1 credit) or Alternative Certification Course
<b>Suggested Courses</b>	Honors Biology	Honors Chemistry	AP Biology or AP Chemistry	Advanced Animal Science, Forensic Science, or Statistics



### PLTW Principles of Biomedical Sciences



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.

**Course Numbers:** 3100AC | N1302092

**Credits:** 1

**Grade Placement:** 9

**Semesters:** 2

**Required Prerequisite:** Academy facilitator approval

### PLTW Human Body Systems



Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis.

Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

**Course Numbers:** 3105AC | N1302093

**Credits:** 1

**Grade Placement:** 10

**Semesters:** 2

**Required Prerequisite:** Principles of Biomedical Sciences; Academy facilitator approval

### PLTW Medical Interventions



Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate

the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

**Course Numbers:** 3106AC | N1302094

**Credits:** 1

**Grade Placement:** 11

**Semesters:** 2

**Required Prerequisite:** Human Body Systems; Academy facilitator approval

### PLTW Biomedical Innovation



In the final course of the Project Lead the Way Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the

most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

**Course Numbers:** 3107AC | N1302095

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2





**Required Prerequisite:** Medical Interventions; Eligibility verification at district level is required. See Health Science Coordinator for more information.

# PROGRAMMING AND SOFTWARE DEVELOPMENT

**This Program of Study corresponds to the 20-21 Software Design and Development Pathway.**

**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](http://www.nisdtx.org/cte).)

				
<b>Recommended Course Sequence</b>	Computer Science I* (1 credit)	Computer Science II* (1 credit)	<b>This course will be available in 22-23.</b>	Practicum in Information Technology (2-3 credits)
				Independent Study in Technology Applications (1 credit)

\*NOTE: Computer Science I and II satisfy state requirements for Languages other than English (LOTE)



## Computer Science 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. Certifications will be earned in Microsoft Word and Microsoft Technology Associate- Intro to Programming Using Python and can be earned as 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.

**Course Numbers:** CT.0849 | 03580200

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Required Prerequisite:** Algebra I

## Computer Science II



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 Microsoft Excel and Certified Associate in Python Programming (PCAP). This course may be used as a Language Other than English credit and will be included in the calculation of the weighted GPA.

**Course Numbers:** CT.0859 | 03580300

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Required Prerequisite:** Algebra I, Computer Science I

## Practicum in Information Technology



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. Certifications will be earned in Microsoft Excel Expert and Advanced Industry Based Certification. *Students will work with their teacher, mentor and coordinator to plan their year.*

### 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 is required. See counselor for more information.

## Independent Study in Technology Applications



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. Certifications will be earned in Microsoft Excel Expert and advanced industry based certifications. *Students will work with their teacher, mentor and coordinator to plan their year.*

### INDSTUDY-IT

**Course Numbers:** 0834 | 03580900

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** Eligibility verification at district level is required. See counselor for more information.

**Recommended Prerequisite:** A minimum of one credit from the courses in the Information Technology Career Cluster

## Additional Opportunities

### AP Computer Science A



This college level computer science course is designed to prepare students for the "A" AP Computer Science Examination and is recommended for college bound students who wish to major in computer science or an analytical field. This course includes the study of advanced programming techniques, file management, data structures and an introduction to Object-Oriented Programming. Java is the language used for completing program assignments. The district expectation is that the student will take the appropriate AP exam. This course will be included in the calculation of the weighted GPA. NISD will continue to financially partner with families in this effort and bring the total per exam price as low as possible. **The student will receive two credits for this course, one for math and one for language other than English.**  
**Math Course Numbers:** 0850A | A3580110  
**LOTE Course Numbers:** LO.0850A | A3580120  
**Credits:** 2  
**Grade Placement:** See prerequisites  
**Semesters:** 2  
**Weighted GPA:** Level 4  
**Required Prerequisite:** Algebra I or Honors Algebra I  
**Recommended Prerequisite:** Computer Science I

### OnRamps Computer Science I (CS302)



OnRamps College Computer Science is a dual enrollment course that provides an introduction to the fundamental concepts of computing: how computers work, what they can do, and how they can be used effectively. Some programming is required. OnRamps Computer Science 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](https://nisdtx.org/onramps).** UT Austin tuition for this course is paid to Northwest ISD. See page 30 for details.

**Course Numbers:** LO.D949OR | 03580200

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 4

**Required Prerequisite:** Parent, counselor, principal, and college approval; Algebra I

**Recommended Prerequisite:** Algebra II

# STEM ACADEMY (NHS)

**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](http://www.nisdtx.org/cte).)

Recommended Course Sequences				
	9th Grade	10th Grade	11th Grade	12th Grade
<b>Science</b>	STEM Honors Biology (SC.25H/AC)	STEM Honors Chemistry (SC.27H/AC)	STEM OnRamps Physics (D92OR/AC)	Advanced Science
<b>Math</b>	STEM Honors Geometry (M.112H/AC)	STEM OnRamps Algebra II (D94OR/AC)	Honors Precalculus	AP Calculus AB or BC
<b>English</b>	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) <b>or</b> STEM English IV AP (ELA.2A/AC)
<b>PLTW Academy Courses</b>	PLTW Introduction to Engineering Design (IED) (1 credit) <b>and</b> Computer Science I (LOTE) (CT.849/AC) (1 credit)	PLTW Aerospace Engineering (AE) <b>or</b> PLTW Civil Engineering and Architecture (CEA) <b>or</b> PLTW Digital Electronics (DE) <b>or</b> PLTW Cyber Security (CS) (ALL 1 credit)	Engineering Science (PLTW Principles of Engineering - POE) (1 credit)	PLTW Engineering Design and Development (EDD) (1 credit)
<b>Optional STEM Courses</b>	X	Computer Science II (LOTE) <b>or</b> Foundations of Cybersecurity (PLTW Cybersecurity)	Foundations of Cybersecurity (PLTW Cybersecurity) <b>or</b> Scientific Research and Design STEM	Practicum in STEM <b>or</b> Project-Based Research

**PLTW Introduction to Engineering Design (IED)**

In this course, students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work.

**Course Numbers:** 08413AC | N1303742

**Credits:** 1

**Grade Placement:** 9-11

**Semesters:** 2

**Required Prerequisite:** Academy facilitator approval

**Engineering Science (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 counts as a science credit.

**Course Numbers:** 08423AC | 13037500

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** PLTW Introduction to Engineering Design (IED); Algebra I and Biology, Chemistry, IPC, or Physics; Academy facilitator approval

**PLTW Aerospace Engineering (AE)**

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, rockets, and robot systems.

**Course Numbers:** CT.9108AC | N1303745

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** PLTW Introduction to Engineering (IED); Academy facilitator approval

**PLTW Civil Engineering and Architecture (CEA)**

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.

**Course Numbers:** CT.9109AC | N1303747

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** PLTW Introduction to Engineering (IED); Academy facilitator approval

## **Computer Science 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. Certifications will be earned in Microsoft Word and Microsoft Technology Associate- Intro to Programming Using Python and can be earned as 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.

**Course Numbers:** CT.849/AC | 03580200

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Required Prerequisite:** Algebra I

## **Digital Electronics (DE) (PLTW)**

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.

**Course Numbers:** CT.9116AC | 13037600

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** PLTW IED, Algebra I and Geometry, Academy facilitator approval

## **Foundations of Cybersecurity (PLTW Cybersecurity [CS])**

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.

**Course Numbers:** CT.9115 | 03580850

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** IED, Computer Science I; Academy facilitator approval

## **Scientific Research and Design Science, Technology, Engineering, and Mathematics**

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.

**SRD-BL-STEM**

**Course Numbers:** CT.B418AC | 13037200

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** PLTW IED; Academy facilitator approval; Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics

## **PLTW Engineering Design and Development (EDD)**

The knowledge and skills students acquire throughout PLTW Engineering come together in Engineering Design and Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document the design process and solution.

**Course Numbers:** CT.9110AC | N1303749

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** PLTW Introduction to Engineering (IED), PLTW Principles of Engineering (POE); Academy facilitator approval



### **Practicum in Science, Technology, Engineering, and Mathematics (STEM Academy) (Internship)**

This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. See page 192 for additional information on internships or visit our website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).

#### **PRACI-BL-STEM**

##### **Course Numbers First Time Taken:**

CT.B911 | 13037400

#### **PRACII-BL-STEM**

##### **Course Numbers Second Time Taken:**

CT.B922 | 13037410

**Credits:** 2

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** Algebra I, Geometry, Academy facilitator approval; Eligibility verification at district level is required. See Academy facilitator for more information.

**Recommended Prerequisite:** Two Engineering courses

### **Project-Based Research Science, Technology, Engineering, and Mathematics**

Project Based Research in STEM is a one credit course. In this course, students will work in a simulated work environment in both the industry and classroom to complete large scale projects designed by the teacher and student or a client. Coursework will include some observation or internship opportunities and working with an industry mentor. Students will build a professional portfolio showcasing their knowledge and skills. Certifications will be earned in OSHA 30hr and advanced industry based certifications.

#### **PBRI-BL-STEM**

##### **Course Numbers First Time Taken:**

CT.B0711 | 12701500

#### **PBRII-BL-STEM**

##### **Course Numbers Second Time Taken:**

CT.B0721 | 12701510

#### **PBRIII-BL-STEM**

##### **Course Numbers Third Time Taken:**

CT.B0731 | 12701520

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** None

### **PLTW Environmental Sustainability (ES)**

In this course, students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply, and renewable energy.

**Course Numbers:** CT.9114AC | N1303746

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** PLTW IED; Academy facilitator approval

**Recommended Prerequisite:** Biology & Chemistry

# AVIATION AND AERONAUTICS ACADEMY (EHS)

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**The Aviation and Aeronautics Academy aligns with three Programs of Study:**

**Aviation Maintenance**

**Aviation (Flight)**

**Drone (Unmanned Flight)**

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**Aviation and Aeronautics Academy:** Explore modern military and commercial aviation in a high-demand, high-wage field meeting Federal Aviation Administration (FAA) standards.

**Potential Careers:** Drone (UAS) Pilot, Airworthiness Inspector, or Air Traffic Controller  
(Find more potential careers on the NISD CTE website at [www.nisdtx.org/cte](http://www.nisdtx.org/cte).)

	1st Year	2nd Year	3rd Year	4th Year
<b>Aviation Maintenance* (TCCD)</b>	Introduction to Aerospace and Aviation [1 HS Credit]	Introduction to Aircraft Technology [1 HS Credit]	Aircraft Airframe Technology (Dual Credit) [2 HS Credits] <b>OR</b> Aircraft Airframe Tech [3 HS Credits]	Aircraft Powerplant Technology (Dual Credit) [2 HS Credits] <b>OR</b> Aircraft Powerplant Technology/Advanced Transportation Systems Laboratory (Dual Credit) [3 HS Credits]
<b>Drone (Unmanned Flight)</b>	Introduction to Aerospace and Aviation [1 HS Credit]	Introduction to Aircraft Technology [1 HS Credit]	Introduction to Unmanned Aerial Vehicles [1 HS Credit]	Project-Based Research First Time Taken [1 HS Credit]
<b>Aeronautics** (Embry Riddle)</b>	Introduction to Aerospace and Aviation [1 HS Credit]	Introduction to Aircraft Technology [1 HS Credit]	Project-Based Research First Time Taken (Dual Credit) [1 HS Credit]	Project-Based Research Second Time Taken (Dual Credit) [1 HS Credit]
<b>Aviation (Flight)*** (EHS/TCCD)</b>	Introduction to Aerospace and Aviation [1 HS Credit]	Introduction to Aircraft Technology [1 HS Credit]	Project-Based Research First Time Taken [1 HS Credit] (EHS) <b>OR</b> Practicum in Transportation Systems/Extended Practicum in Transportation Systems First Time Taken (Dual Credit) [3 HS Credits]	<b>Private Pilot (TCCD)</b>
				Practicum in Transportation Systems/Extended Practicum in Transportation Systems First Time Taken (Dual Credit) [3 HS Credits] <b>OR</b> Practicum in Transportation Systems/Extended Practicum in Transportation Systems Second Time Taken (Dual Credit) [3 HS Credits]
				<b>Private Pilot (Simulator)</b>
				Practicum in Transportation Systems First Time Taken [2 HS Credits] (EHS)

**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 Junior and Senior years, students in the Aeronautics Pathway will take one dual credit courses each semester.

\*\*\* 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**

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.

**Course Numbers:** CT.9109 | N1304672

**Credits:** 1

**Grade Placement:** See Prerequisites

**Semesters:** 2

**Required Prerequisite:** Aviation Academy students only; Academy facilitator approval

**Mandatory for all Academy of Aviation students.**

### **Introduction to Aircraft Technology**

Students will develop an understanding of the theory of operation of aircraft airframes, powerplants, 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, powerplant theory and maintenance, and powerplant systems and components of aircraft.

**Course Numbers:** CT.9104AC | 13039350

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Required Prerequisite:** Academy facilitator approval

### **Aircraft Airframe Technology**

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. 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.

**Course Numbers:** CT.4110AC | 13039400

**Credits:** 2

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Introduction to Aircraft Technology; Academy facilitator approval

### **Aircraft Powerplant Technology**

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. 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.

**Course Numbers:** CT.4112AC | 13039500

**Credits:** 2

**Grade Placement:** 10-12

**Semesters:** 2

**Required Prerequisite:** Introduction to Aircraft Technology; Academy facilitator approval

### **Practicum in Transportation Systems**

Students will develop an understanding of practical application of knowledge and skills. 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.

#### **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 is required. See Academy facilitator for more information.

**Recommended Prerequisite:** Introduction to Aircraft Technology

### **Practicum in Transportation Systems/ Extended Practicum in Transportation Systems**

Extended Practicum in Transportation Systems is designed to give students supervised practical application of knowledge and skills. 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.

#### **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 is required. See Academy facilitator for more information.

**Certification:** Any of the Transportation Systems Career Cluster Certifications that correlate to the student's pathway.

### **Project-Based Research**

#### **Transportation, Distribution, and Logistics**

Project-Based Research 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.

#### **PBRI-BL-TDL**

##### **Course Numbers First Time Taken:**

CT.B0925 | 12701500

#### **PBRII-BL-TDL**

##### **Course Numbers Second Time Taken:**

CT.B0926 | 12701510

#### **PBRIII-BL-TDL**

##### **Course Numbers Third Time Taken:**

CT.B0927 | 12701520

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** None

### **Principles of Transportation Systems**

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.

**Course Numbers:** CT.9102AC | 13039250

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** Facilitator approval

### **Energy and Power of Transportation Systems**

Students will prepare to meet the expectations of employers in this industry and to interact and relate to others. Students will learn the technologies used to provide products and services in a timely manner. The businesses and industries of the Transportation, Distribution, and Logistics Career Cluster are rapidly expanding to provide new career and career advancement opportunities. Performance requirements will include academic and technical skills. Students will need to understand the interaction between various vehicle systems, including engines, transmissions, brakes, fuel, cooling, and electrical. Students will also need to understand the logistics used to move goods and services to consumers, as well as the components of transportation infrastructure.

**Course Numbers:** CT.9103AC | 13039300

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** Academy facilitator approval

**Recommended Prerequisite:** Principles of Transportation Systems

### **Introduction to Unmanned Aerial Vehicles (UAV)**

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.

**Course Numbers:** CT.9106 | N1304670

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Prerequisite:** Intro to Aerospace & Aviation, Intro to Aircraft Technology

### **Dual Credit Aircraft Airframe Technology/Advanced Transportation Systems Laboratory**

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. 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/ccr](http://www.nisdtx.org/ccr).

**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

### **Aircraft Powerplant Technology/Advanced Transportation Systems Laboratory**

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. 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.

**Course Numbers:** CT.4212AC | 13039510

**Credits:** 3

**Grade Placement:** 11-12

**Semesters:** 2

**Prerequisite:** Introduction to Aircraft Tech; Academy Facilitator and College Approval



# Aviation and Aeronautics 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

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.

**Course Number:** AIRP 1215

**TCC Semester Hours:** 2

**Lecture Hours:** 0

**Laboratory Hours:** 4

#### Intermediate Flight

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.

**Course Number:** AIRP 1255

**TCC Semester Hours:** 2

**Lecture Hours:** 0

**Laboratory Hours:** 5

#### Air Navigation

Instruction in visual flight rules navigation in the National Airspace System. Topics include, flight computers, plotters, navigation logs, and publications.

**Course Number:** AIRP 1301

**TCC Semester Hours:** 3

**Lecture Hours:** 3

**Laboratory Hours:** 0

#### Aviation Meteorology

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.

**Course Number:** AIRP 1307

**TCC Semester Hours:** 3

**Lecture Hours:** 3

**Laboratory Hours:** 0

#### Introduction to Aviation

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.

**Course Number:** AIRP 1313

**TCC Semester Hours:** 3

**Lecture Hours:** 3

**Laboratory Hours:** 0

#### Private Pilot Ground School

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.

**Course Number:** AIRP 1317

**TCC Semester Hours:** 3

**Lecture Hours:** 3

**Laboratory Hours:** 0

**Advanced Air Navigation**

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.

**Course Number:** AIRP 1341

**TCC Semester Hours:** 3

**Lecture Hours:** 3

**Laboratory Hours:** 0

**Aerodynamics**

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.

**Course Number:** AIRP 1343

**TCC Semester Hours:** 3

**Lecture Hours:** 3

**Laboratory Hours:** 0

**Aviation Safety**

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.

**Course Number:** AIRP 1345

**TCC Semester Hours:** 3

**Lecture Hours:** 3

**Laboratory Hours:** 0

**Instrument Ground School**

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.

**Course Number:** AIRP 1451

**TCC Semester Hours:** 4

**Lecture Hours:** 4

**Laboratory Hours:** 0

**Recommended Corequisite:** AIRP 2250

**Aircraft Systems**

Study of the theory, operation, and application of pneumatic, hydraulic, electrical, fuel, environmental, protection, and warning systems. Emphasis on subsystems and control systems.

**Course Number:** AIRP 2333

**TCC Semester Hours:** 3

**Lecture Hours:** 3

**Laboratory Hours:** 0

**Commercial Ground School**

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.

**Course Number:** AIRP 2337

**TCC Semester Hours:** 3

**Lecture Hours:** 3

**Laboratory Hours:** 0

**Instrument Flight**

Preparation for the Federal Aviation Administration Airman Certification Standards for the Instrument Rating.

See the TCC website for information concerning projected flight costs.

**Course Number:** AIRP 2250

**TCC Semester Hours:** 2

**Lecture Hours:** 0

**Laboratory Hours:** 4

## Aviation Maintenance Technology Dual Credit Courses

### Introduction to Aviation

An overview of aviation maintenance including the history of aviation, the mechanic's roles and duties, and nomenclature of aircraft and safety.

**Course Number:** AERM 1101

**TCC Semester Hours:** 1

**Lecture Hours:** 1

**Laboratory Hours:** 0

### Weight and Balance

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.

**Course Number:** AERM 1205

**TCC Semester Hours:** 2

**Lecture Hours:** 1

**Laboratory Hours:** 2

**Required Prerequisite/Corequisite:** AERM 1208

### Federal Aviation Regulations

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.

**Course Number:** AERM 1208

**TCC Semester Hours:** 2

**Lecture Hours:** 1

**Laboratory Hours:** 3

### Shop Practices

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.

**Course Number:** AERM 1303

**TCC Semester Hours:** 3

**Lecture Hours:** 2

**Laboratory Hours:** 3

### Ground Operations

An introductory course in fuels, servicing methods, safety procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning, and corrosion control.

**Course Number:** AERM 1310

**TCC Semester Hours:** 3

**Lecture Hours:** 2

**Laboratory Hours:** 3

### Basic Electricity

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 also addressed.

**Course Number:** AERM 1314

**TCC Semester Hours:** 3

**Lecture Hours:** 2

**Laboratory Hours:** 4

### Aviation Science

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.

**Course Number:** AERM 1315

**TCC Semester Hours:** 3

**Lecture Hours:** 2

**Laboratory Hours:** 2

### Aircraft Propellers

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.

**Course Number:** AERM 1340

**TCC Semester Hours:** 3

**Lecture Hours:** 2

**Laboratory Hours:** 2

**Aircraft Reciprocating Engines**

Reciprocating engines, their development, operating principles, and theory. Includes engine instruments, lubrication, and exhaust systems. Also addresses fundamentals of safety.

**Course Number:** AERM 1344

**TCC Semester Hours:** 3

**Lecture Hours:** 2

**Laboratory Hours:** 3

**Aircraft Turbine Engine Theory**

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.

**Course Number:** AERM 1351

**TCC Semester Hours:** 3

**Lecture Hours:** 2

**Laboratory Hours:** 3

**Aircraft Powerplant**

General principles of theory, operation, and maintenance of powerplant electrical systems including ignition, starting, and fire protection systems. Fundamentals of safety procedures will also be addressed.

**Course Number:** AERM 1456

**TCC Semester Hours:** 4

**Lecture Hours:** 2

**Laboratory Hours:** 6

## Embry Riddle – Aeronautics Pathway Courses

The following information is from the Embry Riddle Worldwide course selection guide. Students are encouraged to work with their academy facilitator and the Embry Riddle staff to ensure that the courses they choose match their academic goals. Please visit the Embry Riddle Worldwide website for additional information regarding enrollment, program requirements, and fees. **Some courses may not be available each semester.**

### Aerospace Fundamentals

This course includes high-level exposure to the foundation of collegiate-level coursework, history, careers, disciplines, and operations of the world's aerospace industry. An introductory focus will be placed on aerospace physics (secondary education core curriculum components), engineering, management, operations, and maintenance. Additional skills, such as academic strategies for success and exposure to distance learning modalities, will prepare secondary students for future collegiate studies. Upon completion of the single Carnegie Unit course (one academic year), students will be prepared for college level course work in focused disciplines, and will also have an understanding of academic and career paths in aviation and aerospace.

**Course Number:** ASCI 100

**Embry Riddle Semester Hours:** 0

### Introduction to Space Flight

This course provides the student with a background in the major aspects of space flight. Topics covered include the history of space flight; propulsion theory; orbital mechanics fundamentals; space transportation operations; U.S. space policy; and present and future commercial, industrial, and military applications in space.

**Course Number:** ASCI 110

**Embry Riddle Semester Hours:** 3

### Private Pilot Operations

This course develops the aeronautical knowledge required for certification as a Private Pilot with an Airplane Single Engine Land rating. Topics include; regulations, safety, pre-solo operations, cross-country planning, airspace, chart use, communications, weather, performance, weight and balance, aerodynamics and decision-making.

**Course Number:** ASCI 121

**Embry Riddle Semester Hours:** 5

**Corequisite:** ASCI 121L

### Airmen Knowledge/Part 107 Test Prep

This course supports the aeronautical knowledge testing preparation required as part of the certification for the appropriate FAA certification or ratings. Students are introduced to airman's knowledge testing (AKT) employed by the FAA and are also exposed to the electronic testing software and testing procedures.

**Course Number:** ASCI 121L

**Embry Riddle Semester Hours:** 1

**Corequisite:** ASCI 121

### Introduction to Aeronautical Science

An introductory course in aeronautical sciences that provides students an orientation in aviation topics appropriate to Aeronautical Science degree programs. Subjects include: the aviation profession, the science of flight, safety, security and human factors; aviation resources; the aviation environment; and meteorology.

**Course Number:** ASCI 202

**Embry Riddle Semester Hours:** 3

### Introduction to Flight Physiology

An introduction to the fundamental concepts and topics of flight physiology. The course will explore basic anatomical systems, physiological effects on the human body such as vision and hearing, atmospheric effects, physical stressors, and physiological challenges to flight operations, including disorientation, loss of situational awareness, hypoxia, decompression, impairment and incapacitation.

**Course Number:** ASCI 221

**Embry Riddle Semester Hours:** 3

### Introduction to Aerospace Safety

This course provides an introduction and overview of the theories, concepts, applications and practices of the field of aerospace safety. This course is designed for the beginning aviation safety student and covers topics such as human factors, mechanical factors, accident investigation, safety programs and safety statistics.

**Course Number:** SFTY 210

**Embry Riddle Semester Hours:** 3

# ADDITIONAL CTE ELECTIVES

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## Professional Communications

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.

**Course Numbers:** 0046 | 13009900

**Credits:** .5

**Grade Placement:** 9-12

**Semesters:** 1

**Required Prerequisite:** None

## Professional Communications Online or Off-Campus Dual Credit Opportunity

See page 203 for more information about these opportunities.

## DC Business and Professional Communications (SPCH 1321) for Professional Communications

## General Employability Skills

This course provides students with knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-workers, make important work-related decisions, and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is a part of the process of obtaining employability skills and abilities and is experiential learning that takes place over time.

**Course Numbers:** CT.1056 | N1270153

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 1

**Required Prerequisite:** None

## Forensic Science

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. Blended options are available at select high schools. See section on blended courses for further clarification about this opportunity.

**Course Numbers:** 0859 | 13029500

**Blended Course Numbers:** CT.B08591 | 13029500

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Required Prerequisite:** Biology and Chemistry



# CAREER DEVELOPMENT

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## Career Preparation

### Career Preparation I

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. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

**Course Numbers:** 1300 | 12701300

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** None

**Certification:** Microsoft Office 2016 and OSHA

### Career Preparation I/Extended Career Preparation

**Course Numbers:** CT.1301 | 12701305

**Credits:** 3

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** None

Must be taken concurrently with Career Preparation I.

### Career Preparation II

This course develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences. Career Preparation II maintains relevance and rigor, supports student attainment of academic standards, and effectively prepares students for college and career success.

**Course Numbers:** 1400 | 12701400

**Credits:** 2

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** Career Preparation I

**Certification:** Microsoft Office 2016 and OSHA

### Career Preparation II/Extended Career Preparation

**Course Numbers:** CT.1401 | 12701405

**Credits:** 3

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** Career Preparation I

Must be taken concurrently with Career Preparation II.

## Project-Based Research

Project-Based Research 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.

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** None

## Agriculture, Food, and Natural Resources

### PBRI-BL-AFNR

**Course Numbers First Time Taken:**

CT.B1013 | 12701500

### PBR II-BL-AFNR

**Course Numbers Second Time Taken:**

CT.B1023 | 12701510

### PBR III-BL-AFNR

**Course Numbers Third Time Taken:**

CT.B1033 | 12701520

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

#### **PBRI-BL-BUSM**

**Course Numbers First Time Taken:**

CT.B114 | 12701500

#### **PBR II-BL-BUSM**

**Course Numbers Second Time Taken:**

CT.B124 | 12701510

#### **PBR III-BL-BUSM**

**Course Numbers Third Time Taken:**

CT.B134 | 12701520

### **Education and Training**

#### **PBRI-BL-EDTR**

**Course Numbers First Time Taken:**

CT.B115 | 12701500

#### **PBR II-BL-EDTR**

**Course Numbers Second Time Taken:**

CT.B125 | 12701510

#### **PBR III-BL-EDTR**

**Course Numbers Third Time Taken:**

CT.B135 | 12701520

### **Health Science**

#### **PBRI-BL-HST**

**Course Numbers First Time Taken:**

CT.B116 | 12701500

#### **PBR II-BL-HST**

**Course Numbers Second Time Taken:**

CT.B126 | 12701510

#### **PBR III-BL-HST**

**Course Numbers Third Time Taken:**

CT.B136 | 12701520

### **Human Services**

#### **PBRI-BL-HUMS**

**Course Numbers First Time Taken:**

CT.B117 | 12701500

#### **PBR II-BL-HUMS**

**Course Numbers Second Time Taken:**

CT.B127 | 12701510

#### **PBR III-BL-HUMS**

**Course Numbers Third Time Taken:**

CT.B137 | 12701520

### **Information Technology**

#### **PBRI-BL-IT**

**Course Numbers First Time Taken:**

CT.B118 | 12701500

#### **PBR II-BL-IT**

**Course Numbers Second Time Taken:**

CT.B128 | 12701510

#### **PBR III-BL-IT**

**Course Numbers Third Time Taken:**

CT.B138 | 12701520

### **Science, Technology, Engineering, and Mathematics**

#### **PBRI-BL-STEM**

**Course Numbers First Time Taken:**

CT.B0711 | 12701500

#### **PBR II-BL-STEM**

**Course Numbers Second Time Taken:**

CT.B0721 | 12701510

#### **PBR III-BL-STEM**

**Course Numbers Third Time Taken:**

CT.B0731 | 12701520

### **Transportation, Distribution, and Logistics**

#### **PBRI-BL-TDL**

**Course Numbers First Time Taken:**

CT.B0925 | 12701500

#### **PBR II-BL-TDL**

**Course Numbers Second Time Taken:**

CT.B0926 | 12701510

#### **PBR III-BL-TDL**

**Course Numbers Third Time Taken:**

CT.B0927 | 12701520

### **General Course Numbers**

These course numbers are for Arts, Audio/Video Technology, and Communications, Hospitality and Tourism, and general CTE programming.

**Course Numbers First Time Taken:**

CT.0811 | 12701500

**Course Numbers Second Time Taken:**

CT.0812 | 12701510

**Course Numbers Third Time Taken:**

CT.0813 | 12701520

## Senior Project-Based Research

Senior Project-Based Research is designed as blended format course, where students work with their CTE mentor twice weekly to work through their specialized topic which is centered around the students career interest. Each Senior will build a two-year plan focused on life after high school and their future career interest. Students will engage in a variety of topics such as goal setting, real-life finance, “how to college”, time management, personal life skills, and more. This one-on-one opportunity will also provide a student a chance to hear from business and industry professionals that reflect the students future career choices. This course is designed to give the student an opportunity to ensure they have strong scores in SAT, ACT, and TSI, as well as earning an Industry-based credential (example: Certified Microsoft Excel Associate). Students will engage in book studies and have opportunities to work on themselves and their future. Students who seek to have an Advanced Academic Senior Release period must be enrolled in Senior Project-Based Research.

### **PBRI-BL-SRRLS**

#### **Course Numbers First Time Taken:**

CT.B0771 | 12701500

### **PBRII-BL-SRRLS**

#### **Course Numbers Second Time Taken:**

CT.B0772 | 12701510

### **PBRIII-BL-SRRLS**

#### **Course Numbers Third Time Taken:**

CT.B0773 | 12701520

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** Approval of the student's Senior Release application; minimum of 20 credits earned entering the senior year

## Senior Advanced Academic Release

Students who are enrolled in three or more Advanced Placement (AP), Dual Credit, or OnRamps courses during the school day may qualify for a Senior Advanced Academic Release. Students must also be enrolled concurrently in Senior Project-Based Research and meet other criteria. See your school counselor for the application containing further information.

**Course Number:** EL. 091, EL.091B, EL.091C

**Grade Placement:** 12

**Semesters:** 2

**Required Prerequisite:** Approval of the student's Senior Release application; minimum of 20 credits earned entering the senior year

# INTERNSHIP NOTE

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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 (examples: OSHA, CVA Level I and Microsoft certifications)

Eligibility verification at district level is required. See counselor for more information.

# OTHER INTERNSHIPS

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\*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 is required. See counselor for more information. Must enroll concurrently in Practicum in Agriculture, Food and Natural Resources.

## **Practicum in Animation**

**PRACI-BL-AAV-ANIMA**

**Course Numbers First Time Taken:**

CT.B0911 | 13008450

**PRACII-BL-AAV-ANIMA**

**Course Numbers Second Time Taken:**

CT.B0921 | 13008460

**Credits:** 2

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** Facilitator approval; Eligibility verification at district level is required. See counselor for more information.

## **Practicum in Animation/ Extended Practicum in Animation**

**PRAC-EXI-BL-AAV-ANIMA**

**Course Numbers First Time Taken:**

CT.B0931 | 13008455

**PRAC-EXII-BL-AAV-ANIMA**

**Course Numbers Second Time Taken:**

CT.B0922 | 13008465

**Credits:** 3

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** Facilitator approval; Eligibility verification at district level is required. See counselor for more information. Must enroll concurrently in Practicum in Animation.

## **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 is required. See counselor for more information. 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 is required.  
See counselor for more information. 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 is required.  
See counselor for more information. Must enroll  
concurrently in Practicum in Business Management.

**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 is required.  
See counselor for more information. 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 is required. 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 is required. See Academy facilitator for more information.

**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 is required. See counselor for more information. 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 is required. See counselor for more information. 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 is required. See counselor for more information. 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:** Facilitator approval;  
Eligibility verification at district level is required.  
See counselor for more information. Must enroll  
concurrently in Practicum in Human Services.

**Practicum in Science, Technology,  
Engineering, and Mathematics/Extended  
Practicum in Science, Technology,  
Engineering, and Mathematics**

**PRAC-EXI-BL-STEM**

**Course Numbers First Time Taken:**

CT.B877AC | 13037405

**PRAC-EXII-BL-STEM**

**Course Numbers Second Time Taken:**

CT.B977 | 13037415

**Credits:** 3

**Grade Placement:** 11-12

**Semesters:** 2

**Required Prerequisite:** Facilitator approval;  
Eligibility verification at district level is required.  
See counselor for more information. Must enroll  
concurrently in Practicum in Science, Technology,  
Engineering, and Mathematics.

**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 is required.  
See counselor for more information. Must enroll  
concurrently in Practicum in  
Transportation Systems.

# NON-DISCRIMINATION NOTICE

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## 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 Management & Administration, Education & Training, Finance, Health Science, Human Services, Information Technology, Law, Marketing, STEM, Technology Applications/Information Technology, 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 Title IX Coordinator, Mary Seltzer, at [mseltzer@nisdtx.org](mailto:mseltzer@nisdtx.org), 817-215-0968, and/or the Section 504 Coordinator, Victoria Cole, at [victoria.cole@nisdtx.org](mailto:victoria.cole@nisdtx.org), 817-698-1067.

## 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, Administración y Administración de Empresas, Educación y Capacitación, Finanzas, Ciencias de la Salud, Servicios Humanos, Tecnología de la Información, Derecho, Marketing, STEM, Tecnología Aplicaciones/Información Tecnología 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.

Para información sobre sus derechos o procedimientos de quejas, comuníquese con el Coordinador del Título IX, Mary Seltzer, en [mseltzer@nisdtx.org](mailto:mseltzer@nisdtx.org), 817-215-0968, y/o el Coordinador de la Sección 504, Victoria Cole, at [victoria.cole@nisdtx.org](mailto:victoria.cole@nisdtx.org), 817-698-1067.

# COMPREHENSIVE SPECIAL EDUCATION

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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.

### **Applied English I**

**Course Numbers:** 0021R | 03220100

**Credits:** 1

**Grade Placement:** 9

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** ARD Decision

### **Applied English II**

**Course Numbers:** 0022R | 03220200

**Credits:** 1

**Grade Placement:** 10

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** English I, ARD Decision

### **Applied English III**

**Course Numbers:** 0023R | 03220300

**Credits:** 1

**Grade Placement:** 11

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** English II, ARD Decision

### **Applied English IV**

**Course Numbers:** 0024R | 03220400

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** English III, ARD Decision

## **Math**

### **Applied Algebra I**

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.**

**Course Numbers:** 0104R | 03100500

**Credits:** 1

**Grade Placement:** See Prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Pre-Algebra, ARD decision

### **Applied Geometry**

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.

**Course Numbers:** 0112R | 03100700

**Credits:** 1

**Grade Placement:** See Prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Algebra I or Honors Algebra I, ARD decision

### **Applied Algebraic Reasoning**

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 to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets. Placement in this course is determined by the ARD committee.

**Course Numbers:** 0125R | 03102540

**Credits:** 1

**Grade Placement:** See Prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Algebra I or Honors Algebra I, ARD decision

### **Applied Financial Mathematics**

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. This course will integrate career and postsecondary education planning into financial decision making. Students will be encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. 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](http://eligibilitycenter.org)**

**Course Numbers:** CT.0122R | 13018000

**Credits:** 1

**Grade Placement:** See Prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Algebra I or Honors Algebra I, ARD decision

### **Applied Algebra II**

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

**Course Numbers:** 0109R | 03100600

**Credits:** 1

**Grade Placement:** See Prerequisites

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** Algebra I or Honors Algebra I, ARD decision



## Electives

### **Applied Methodology for Academic and Personal Success (MAPS)**

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.

**Course Numbers:** EL.10005 | N1130021

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** ARD Committee Recommendation

### **Applied Reading I**

This course is designed to develop and support students in need of reading, writing, and study skills. Specific criteria must be met prior to an ARD committee recommending this course. Applied Reading I is for elective credit only and does not substitute for English credit.

**Course Numbers:** ELA.00055 | 03270700

**Credits:** 1

**Grade Placement:** 9

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** ARD Committee Recommendation

### **College Transition**

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.

**Course Numbers:** EL.0711 | N1290050

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** ARD Committee Recommendation

### **Path College Career I**

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.

**Course Numbers:** EL.029 | N1290051

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** ARD Committee Recommendation

### **Path College Career II**

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.

**Course Numbers:** EL.039 | N1290052

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** ARD Committee Recommendation;  
Path College Career I

### **Path College Career III**

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.

**Course Numbers:** EL.049 | N1290053

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Weighted GPA:** Level 2

**Prerequisite:** ARD Committee Recommendation;  
Path College Career II

# ONLINE OR OFF-CAMPUS DUAL CREDIT OPPORTUNITIES

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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.

## 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 Accelerated High School students. **See the NISD College and Career Readiness website for more details:** [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)

### **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 Accelerated High School students. **See the NISD College and Career Readiness website for more details:** [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)

### **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) for ENG IV A and B**

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/ccr](http://www.nisdtx.org/ccr).

**Course Numbers:** ELA.D90271 | 03220400

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 1

**Weighted GPA:** Level 4

**Prerequisite:** Parent, counselor, principal, and college approval; ENGL 1301 and 1302

### **Dual Credit American Literature II (ENGL 2328) for ENG IV A and B**

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/ccr](http://www.nisdtx.org/ccr).

**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

## **English Electives**

### **DC Introduction to Speech Communication (SPCH 1311) for Communication Applications**

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/ccr](http://www.nisdtx.org/ccr)

**Course Numbers:** D91075 | 03241400

**Credits:** .5

**Grade Placement:** 9-12

**Semesters:** 1

**Prerequisite:** Parent, counselor, principal, and college approval; TSI Reading, Writing, and Math or TSIA-2 ELAR and Mathematics

### **Dual Credit Technical & Business Writing (ENGL 2311) for Business English A and B**

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. 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/ccr](http://www.nisdtx.org/ccr).

**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

## 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/ccr](http://www.nisdtx.org/ccr).

### DC College Algebra (MATH 1314) for Algebra II A and B

**Course Numbers:** M.D901094 | 03100600

**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 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/ccr](http://www.nisdtx.org/ccr).

### 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**

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/ccr](http://www.nisdtx.org/ccr).

**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

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

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/ccr](http://www.nisdtx.org/ccr).

**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

## **Science**

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

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/ccr](http://www.nisdtx.org/ccr).

**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

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

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/ccr](http://www.nisdtx.org/ccr).

**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



### **DC College Physics I (PHYS 1401) for Physics A**

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/ccr](http://www.nisdtx.org/ccr).**

**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 II (PHYS 1402) for Physics B**

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/ccr](http://www.nisdtx.org/ccr).**

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

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/ccr](http://www.nisdtx.org/ccr).**

**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

## **DC General Chemistry I (CHEM 1411) for Chemistry A**

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 Accelerated High School students. **See the NISD College and Career Readiness website for more details:** [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)

**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 II (CHEM 1412) for Chemistry B**

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 Accelerated High School students. **See the NISD College and Career Readiness website for more details:** [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)

**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)

## **Social Studies**

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

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. 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 Accelerated High School students. **This course is only available to Steele Accelerated High School students. See the NISD College and Career Readiness website for more details:**

[www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)

**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

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

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. 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 Accelerated High School students. **This course is only available to Steele Accelerated High School students. See the NISD College and Career Readiness website for more details:**

[www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)

**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

### **DC US Government (GOVT 2305)**

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 Accelerated High School students. In fall US Government courses, seniors will complete and submit a Free Application for Federal Student Aid (FAFSA) or a Texas Application for State Financial Aid (TASFA). Per HB 3, students may also submit a signed opt-out form. In spring US Government courses, students will complete requirements for Instruction on Proper Interaction with Peace Officers (TAC), §74.39. **See the NISD College and Career Readiness website for more details:** [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)

**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

## DC Economics (ECON 2301)

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 Accelerated High School students. In fall Economics courses, seniors will complete and submit a Free Application for Federal Student Aid (FAFSA) or a Texas Application for State Financial Aid (TASFA). Per HB 3, students may also submit a signed opt-out form. In spring Economics courses, students will complete requirements for Instruction on Proper Interaction with Peace Officers (TAC), §74.39. **See the NISD College and Career Readiness website for more details: [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)**

**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

## Social Studies Electives

### DC Psychology (PSYC 2301)

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 Accelerated High School students. **See the NISD College and Career Readiness website for more details: [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)**

**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

### DC Sociology (SOCI 1301)

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/ccr](http://www.nisdtx.org/ccr)**

**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

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

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental 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 Accelerated High School students. **See the NISD College and Career Readiness website for more details:** [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)

**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

## **Fine Arts**

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

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 Accelerated High School students. **See the NISD College and Career Readiness website for more details:** [www.nisdtx.org/ccr](http://www.nisdtx.org/ccr)

**Course Numbers:** D0460 | 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

## **Languages Other Than English**

### **Dual Credit French I (FREN 1411) for French I A and B**

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes acquisition of language functions, basic vocabulary, grammatical structures, and culture through contextualized presentations, interactive activities, and extensive laboratory practice.

**Course Numbers:** LO.D90607 | 03410100

**Credits:** 1

**Recommended Grade Placement:** 10-12

**Semesters:** 1

**Weighted GPA:** Level 4

**Prerequisite:** Parent, counselor, principal, and college approval; TSI Reading, Writing, and Mathematics or TSIA-2 ELAR and Mathematics

### **Dual Credit French II (FREN 1412) for French II A and B**

Continuation of Dual Credit French I. Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture with emphasis on conversation. Laboratory practice.

**Course Numbers:** LO.D90608 | 03410200

**Credits:** 1

**Recommended Grade Placement:** 10-12

**Semesters:** 1

**Weighted GPA:** Level 4

**Prerequisite:** Parent, counselor, principal, and college approval; FREN 1411 (Beginning French I)

## Other Electives

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

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. 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 Accelerated 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/ccr](http://www.nisdtx.org/ccr)

**Course Numbers:** D0330 | N1130021

**Credits:** .5

**Grade Placement:** 9

**Semesters:** 1

**Prerequisite:** Parent, counselor, principal, and college approval; TSIA-2 Reading, Writing, and Mathematics

### **DC Business and Professional Communications (SPCH 1321) for Professional Communications**

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/ccr](http://www.nisdtx.org/ccr)

**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



# OTHER ELECTIVES

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## Academic Decathlon

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.

**Course Number:** 0308

**Credits:** 1 (Local)

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** Teacher recommendation and coach's approval

## AP Research

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 AP Seminar 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 AP Seminar and AP Research 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 AP Seminar and AP Research 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.

**Course Numbers:** EL.A5012 | N1100014

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Prerequisite:** AP Seminar

### **AP Seminar**

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 in AP Seminar will be eligible to participate in the second course (new 2017-2018), 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 will receive the AP Capstone Diploma. Alternatively, students who earn scores of a 3 or higher in AP Seminar and AP Research 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.

**Course Numbers:** 5011A | N1130026

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** Honors English I or AP Human Geography recommended

### **AVID I, II, III and IV**

AVID (Advancement Via Individual Determination) prepares students in the academic middle for college eligibility and success. Students receive instruction in writing, inquiry, collaboration and reading strategies in addition to note-taking and organizational skills that are necessary for academic success. AVID students must enroll in at least one Honors, dual credit, dual enrollment, or AP course in addition to the AVID elective class. Tutors are provided during the AVID class to support student success in all courses.

### **AVID I**

**Course Numbers:** 98303 | N1290001

**Credits:** 1

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** Student must be identified for AVID through an Application/Nomination process including an interview.

### **AVID II**

**Course Numbers:** 9831 | N1290002

**Credits:** 1

**Grade Placement:** 10-12

**Semesters:** 2

**Prerequisite:** AVID I; student must be identified for AVID through an Application/Nomination process including an interview.

### **AVID III**

**Course Numbers:** 9832 | N1290030

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2

**Prerequisite:** AVID II; student must be identified for AVID through an Application/Nomination process including an interview.

### **AVID IV**

**Course Numbers:** 9833 | N1290033

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2

**Prerequisite:** AVID III; student must be identified for AVID through an Application/Nomination process including an interview.

### **AVID Student Tutor**

This course is designed to provide recommended AVID tutors an opportunity to lead tutoring groups or collaborative study groups in and out of AVID elective classrooms.

**Course Number:** 09041

**Credits:** 0.5-1.0 (Local)

**Grade Placement:** 12

**Semesters:** 2

**Prerequisite:** Approval of AVID Site Coordinator

### **Cheerleading**

This a select group of students who perform at community and athletic events. They are the spirit representatives of the school.

**Course Numbers:** 0725 | PES00013

**Credits:** Year 1 PE Substitution, Years 2-4 local credit

**Grade Placement:** 9-12

**Semesters:** 2

**Prerequisite:** None

### **Health**

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.

**Course Numbers:** 0700 | 03810100

**Credits:** .5

**Grade Placement:** 9-12

**Semesters:** 1

**Prerequisite:** None

### **Partners in Physical Education**

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.

**Course Number:** LC.101

**Credits:** .5-1 (Local)

**Grade Placement:** 9-12

**Semesters:** 1-2

**Prerequisite:** Administrator or counselor approval

### **Methodology for Academic and Personal Success (MAPS)**

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.

**Course Numbers:** EL.1001 | N1130021

**Credits:** 1

**Grade Placement:** 9-10

**Semesters:** 2

**Prerequisite:** None

### **Peer Assistance and Leadership I**

Peer Assistance and Leadership allows specially trained students to serve as role models and mentors for students in our district. PALs are trained in listening, communication, facilitation, problem solving, and decision making skills. In addition, PALs participate in various community service projects. PAL students will learn skills which will enable them to help younger students to have a positive and productive school experience.

**Course Numbers:** 0924 | N1290005

**Credits:** 1

**Grade Placement:** 11-12

**Semesters:** 2 (Double Blocked Class)

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

### **Peer Assistance and Leadership II**

Peer Assistance and Leadership allows specially trained students to serve as role models and mentors for students in our district. PALs are trained in listening, communication, facilitation, problem solving, and decision making skills. In addition, PALs participate in various community service projects. PAL students will learn skills which will enable them to help younger students to have a positive and productive school experience.

**Course Numbers:** 0925 | N1290006

**Credits:** 1

**Grade Placement:** 12

**Semesters:** 2 (Double Blocked Class)

**Prerequisite:** Peer Assistance and Leadership I; Students who enroll in this course must have gone through the screening process and been selected to participate. Students must also meet the minimum requirements of community service hours during the school year.

### **Leadworthy the Course**

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.

**Course Numbers:** 0319 | N1290012

**Credits:** .5

**Grade Placement:** 9

**Semesters:** 1

**Prerequisite:** None

### **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)**

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.

**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)