Please be advised that this Course Catalog is contingent on future decisions of the Texas Education Agency, the State Board of Education, and the Texas Legislature. If changes occur the online catalog will be updated.

It is the policy of Northside Independent School District not to discriminate on the basis of age, race, religion, color, national origin, sex or handicap in its 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.
The High School Course Catalog provides course information following the required graduation plan as presented on page 3. Courses have been grouped by grade level.

### College Preparation...........................................2
### Graduation Programs.........................................3
### Endorsement Information.....................................4
### STAAR/EOC Information.....................................5
### NISD Career & Technology Endorsement

### Mathematics
- * Pre-Calculus
- * AP Calculus AB or BC
- * AP Statistics
- * College Algebra
- * Adv. Quantitative Reasoning
### Science
- * Biology
- * Chemistry
- * Environmental Science
- * Physics
### International Languages
- * French Language & Culture
- * Latin Language & Culture
- * Spanish Language & Culture
- * Spanish Literature & Culture
- * German Language & Culture

### English Language Arts
- * English Lang. & Comp.
- * English Lit. & Comp.
### Social Studies
- * U.S. Government and Politics
- * Human Geography
- * World History
- * United States History
- * World History
### Fine Arts
- * Art
- * Music Theory
- * Art History

### DUAL CREDIT
Students may earn both high school and college credits. Students may accrue from three to thirty hours of college credit depending on the courses. Students are enrolled in college early and are required to take a college placement test. Dual credit courses taken at the high schools are tuition free.

### NORTHWEST VISTA COLLEGE
Dual Credit Academic Courses

### English Language Arts
- * English III
- * English IV
### Social Studies
- * U.S. History
- * U.S. Government and Politics
- * World History
- * United States History
### Fine Arts
- * Art
### Science
- * Biology
- * Chemistry
- * Environmental Science
- * Physics

### DUAL CREDIT
Dual Credit Fine Arts Course
- *Art Appreciation

### Dual Credit Computer Science Courses
- * Fundamentals of Computer Science PreAP/DC
- * Computer Science 2 AP/DC
- * Computer Science 3 H/DC

### Dual Credit Career & Technology Courses
- * Principles of Information Technology
- * Digital & Interactive Media

### NORTHWEST VISTA COLLEGE
Dual Credit Career & Technology Semester Courses

### ST. PHILIP’S COLLEGE
Two Year Dual Credit Academy Programs

Open to Juniors Only—Applications are required in the spring for fall enrollment.
- * Alamo Area Aerospace Academy
  - Aircraft Mechanics—Three hour courses; students attend classes on the St. Philip’s SW Campus
- * Information Technology and Security Academy
  - Information Technology and Security—Three hour courses; students attend classes at the St. Philip’s Advanced Technology Center
- * Manufacturing Technology Academy
  - Manufacturing Technology Academy—Diverse manufacturing—Three hour courses; students attend classes on the St. Philip’s SW Campus

### Northside I.S.D.
Building a College-Going Culture
Opening Your Door to College Credit

Students, while still in high school may sign up for advanced academic courses which may lead to college credit. Students should meet with their high school counselors or teachers to obtain more information about these courses.

### ADVANCED PLACEMENT
Students may earn college credit through the College Board AP Examinations which are offered in May of each year. There is a fee for each AP exam. Northside ISD pays a supplement for each AP test taken by students who are sitting in the AP courses. For assistance in paying for the test, talk with your counselor or teacher. AP course offerings may vary by campus. Look for descriptions of these Advanced Placement courses in the Course Catalog.
NISD Graduation Programs

Students beginning the ninth grade in 2014-2015 will take End of Course Tests. Graduation plan information pending State Board of Education and NISD Board of Trustee approval.

<table>
<thead>
<tr>
<th>NISD Foundation Graduation Program</th>
<th>NISD Foundation Graduation Program with an Endorsement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong></td>
<td><strong>English</strong></td>
</tr>
<tr>
<td>English I ................................ 1 credit</td>
<td>English I .......................................... 1 credit</td>
</tr>
<tr>
<td>English II ................................ 1 credit</td>
<td>English II ...................................... 1 credit</td>
</tr>
<tr>
<td>English III ................................ 1 credit</td>
<td>English III .................................... 1 credit</td>
</tr>
<tr>
<td>Advanced English Course ............ 1 credit</td>
<td>Advanced English Course ...................... 1 credit</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td><strong>Mathematics</strong></td>
</tr>
<tr>
<td>Algebra I ................................ 1 credit</td>
<td>Algebra I ....................................... 1 credit</td>
</tr>
<tr>
<td>Geometry ................................ 1 credit</td>
<td>Algebra II or other Adv. Math Course ................ 1 credit</td>
</tr>
<tr>
<td>Advanced Mathematics Course ........ 1 credit</td>
<td>Geometry ........................................ 1 credit</td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td><strong>Science</strong></td>
</tr>
<tr>
<td>Biology ................................ 1 credit</td>
<td>Biology ........................................... 1 credit</td>
</tr>
<tr>
<td>IPC or Adv. Physical Science Course</td>
<td>IPC or Adv. Physical Science Course .................. 1 credit</td>
</tr>
<tr>
<td>Advanced Science Course ............ 1 credit</td>
<td>Advanced Science Course ........................ 1 credit</td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td><strong>Social Studies</strong></td>
</tr>
<tr>
<td>World Geography or World History ... 1 credit</td>
<td>World Geography or World History .................... 1 credit</td>
</tr>
<tr>
<td>U.S. History .......................... 1 credit</td>
<td>U.S. History ..................................... 1 credit</td>
</tr>
<tr>
<td>Economics .............................. 1/2 credit</td>
<td>Economics ........................................ 1/2 credit</td>
</tr>
<tr>
<td>United States Government ............ 1/2 credit</td>
<td>United States Government .......................... 1/2 credit</td>
</tr>
<tr>
<td><strong>Languages Other than English (LOTE)</strong></td>
<td><strong>Languages Other than English (LOTE)</strong></td>
</tr>
<tr>
<td>........................................ 2 credits</td>
<td>...................................................... 2 credits</td>
</tr>
<tr>
<td><strong>Physical Education</strong></td>
<td><strong>Physical Education</strong></td>
</tr>
<tr>
<td>........................................ 1 credit</td>
<td>...................................................... 1 credit</td>
</tr>
<tr>
<td><strong>Fine Arts</strong></td>
<td><strong>Fine Arts</strong></td>
</tr>
<tr>
<td>........................................ 1 credit</td>
<td>...................................................... 1 credit</td>
</tr>
<tr>
<td><strong>Health</strong> (Local requirement)</td>
<td><strong>Health</strong> (Local requirement)</td>
</tr>
<tr>
<td>........................................ 1/2 credit</td>
<td>................................ ...................... 1/2 credit</td>
</tr>
<tr>
<td><strong>Communication Applications</strong></td>
<td><strong>Communication Applications</strong></td>
</tr>
<tr>
<td>........................................ 1/2 credit</td>
<td>................................ ...................... 1/2 credit</td>
</tr>
<tr>
<td>(Local requirement)</td>
<td>(Local requirement)</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td><strong>Electives</strong></td>
</tr>
<tr>
<td>........................................ 4 credits</td>
<td>................................ ...................... 6 credits</td>
</tr>
</tbody>
</table>

22 credits                                                        26 credits

**Distinguished Achievement Program**

| **English**                        | **English**                                          |
| ........................................ 4 credits          | ...................................................... 4 credits |
| **Mathematics**                    | **Mathematics**                                      |
| ........................................ 4 credits          | ...................................................... 4 credits |
| (Must include Algebra I, Geometry, Algebra II & 4th Math as a prerequisite) | (Must include Algebra I, Geometry, Algebra II & 4th Math as a prerequisite) |
| **Science**                        | **Science**                                          |
| Biology, Chemistry, Physics & 4th Science .................................. 4 credits | Biology, Chemistry, Physics, & 4th Science .................. 4 credits |
| Biology, IPC, Chemistry, Physics  | Biology, IPC, Chemistry, Physics                     |
| (IPC may only be taken before Chemistry & Physics)                      | (IPC may only be taken before Chemistry & Physics)    |
| **Social Studies**                 | **Social Studies**                                   |
| World History ........................ 1 credit                    | World History .................................... 1 credit |
| World Geography or World History  | World Geography ........................................... 1 credit |
| U.S. History .......................... 1 credit           | US History ......................................... 1 credit |
| Economics .............................. 1 credit         | Economics ........................................... 1/2 credit |
| United States Government ............ 1/2 credit       | United States Government .......................... 1/2 credit |
| **International Languages**        | **International Languages**                          |
| ........................................ 3 credits          | ...................................................... 3 credits |
| (Must consist of three credits in the same language)                    | (Must consist of three credits in the same language)  |
| **Communication Applications**     | **Communication Applications**                       |
| ........................................ 1/2 credit         | ................................ ...................... 1/2 credit |
| **Physical Education**             | **Physical Education**                               |
| ........................................ 1 credit           | ...................................................... 1 credit |
| **Health** (Local requirement)     | **Health** (Local requirement)                       |
| ........................................ 1/2 credit         | ................................ ...................... 1/2 credit |
| **Fine Arts**                      | **Fine Arts**                                        |
| ........................................ 1 credit           | ...................................................... 1 credit |
| (Art, Band, Choir, Dance, Orchestra and Theater)                         | (Art, Band, Choir, Dance, Orchestra and Theater)     |
| **Electives**                      | **Electives**                                        |
| ........................................ 4 credits          | ................................ ...................... 4 credits |

26 credits                                                        26 credits

***Northside Minimum Graduation Program***

| **English**                        | **English**                                          |
| ........................................ 4 credits          | ...................................................... 4 credits |
| **Mathematics**                    | **Mathematics**                                      |
| ........................................ 3 credits          | ...................................................... 3 credits |
| (Algebra I, Geometry, Math Models or Algebra II) | (Algebra I, Geometry, Math Models or Algebra II) |
| **Science**                        | **Science**                                          |
| Biology, Chemistry, Physics & 4th Science .................................. 4 credits | Biology, Chemistry, Physics, & 4th Science .................. 4 credits |
| Biology, IPC, Chemistry, Physics  | Biology, IPC, Chemistry, Physics                     |
| (IPC may only be taken before Chemistry & Physics)                      | (IPC may only be taken before Chemistry & Physics)    |
| **Social Studies**                 | **Social Studies**                                   |
| World Geography or World History  | World Geography ........................................... 1 credit |
| U.S. History .......................... 1 credit           | U.S. History ..................................... 1 credit |
| Economics .............................. 1 credit         | Economics ........................................... 1/2 credit |
| United States Government ............ 1/2 credit       | United States Government .......................... 1/2 credit |
| **International Languages**        | **International Languages**                          |
| ........................................ 3 credits          | ...................................................... 3 credits |
| (Must consist of three credits in the same language)                    | (Must consist of three credits in the same language)  |
| **Communication Applications**     | **Communication Applications**                       |
| ........................................ 1/2 credit         | ................................ ...................... 1/2 credit |
| **Physical Education**             | **Physical Education**                               |
| ........................................ 1 credit           | ...................................................... 1 credit |
| **Health** (Local requirement)     | **Health** (Local requirement)                       |
| ........................................ 1/2 credit         | ................................ ...................... 1/2 credit |
| **Fine Arts**                      | **Fine Arts**                                        |
| ........................................ 1 credit           | ...................................................... 1 credit |
| (Art, Band, Choir, Dance, Orchestra and Theater)                         | (Art, Band, Choir, Dance, Orchestra and Theater)     |
| **Electives**                      | **Electives**                                        |
| ........................................ 7 credits          | ................................ ...................... 7 credits |

24 credits

***Distinguished Achievement Program***

| **English**                        | **English**                                          |
| ........................................ 4 credits          | ...................................................... 4 credits |
| **Mathematics**                    | **Mathematics**                                      |
| ........................................ 4 credits          | ...................................................... 4 credits |
| (Must include Algebra I, Geometry, Algebra II & 4th Math as a prerequisite) | (Must include Algebra I, Geometry, Algebra II & 4th Math as a prerequisite) |
| **Science**                        | **Science**                                          |
| Biology, Chemistry, Physics & 4th Science .................................. 4 credits | Biology, Chemistry, Physics, & 4th Science .................. 4 credits |
| Biology, IPC, Chemistry, Physics  | Biology, IPC, Chemistry, Physics                     |
| (IPC may only be taken before Chemistry & Physics)                      | (IPC may only be taken before Chemistry & Physics)    |
| **Social Studies**                 | **Social Studies**                                   |
| World Geography or World History  | World Geography ........................................... 1 credit |
| U.S. History .......................... 1 credit           | U.S. History ..................................... 1 credit |
| Economics .............................. 1 credit         | Economics ........................................... 1/2 credit |
| United States Government ............ 1/2 credit       | United States Government .......................... 1/2 credit |
| **International Languages**        | **International Languages**                          |
| ........................................ 3 credits          | ...................................................... 3 credits |
| (Must consist of three credits in the same language)                    | (Must consist of three credits in the same language)  |
| **Communication Applications**     | **Communication Applications**                       |
| ........................................ 1/2 credit         | ................................ ...................... 1/2 credit |
| **Physical Education**             | **Physical Education**                               |
| ........................................ 1 credit           | ...................................................... 1 credit |
| **Health** (Local requirement)     | **Health** (Local requirement)                       |
| ........................................ 1/2 credit         | ................................ ...................... 1/2 credit |
| **Fine Arts**                      | **Fine Arts**                                        |
| ........................................ 1 credit           | ...................................................... 1 credit |
| (Art, Band, Choir, Dance, Orchestra and Theater)                         | (Art, Band, Choir, Dance, Orchestra and Theater)     |
| **Electives**                      | **Electives**                                        |
| ........................................ 4 credits          | ................................ ...................... 4 credits |

26 credits

* Students may substitute certain physical activities for the one required unit of physical education. Such substitutions are based on the physical activity involved in marching band and pep squad during the fall semester only; ROTC, and athletics.
** Students must complete four (4) advanced measures that require student performances that are equivalent to college or professional level work and are judged by external sources, i.e. Advanced Placement exam with score of 3 or higher, dual credit or Tech Prep with B or better with coherent sequence.
*** Students must be enrolled in appropriate core courses (ELA, Math, Science, & Social Studies) necessary to pass the Exit Level TAKS or End of Course Exams.

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If changes occur the online catalog will be updated.

2015-2016 High School Course Catalog 3
Northside ISD - The Endorsements (Subject to Change)

A student must complete the Foundation High School Program (22 credits), one additional math credit, one additional science credit, and two additional elective credits while completing the specific requirements of his/her selected endorsement. Distinguished Level of Achievement graduates must meet the Foundation Program and earn 4 Math credits including Algebra II, 4 Science credits, and at least 1 Endorsement.

STEM
Science, Technology, Engineering, & Math

Students may earn a STEM endorsement by selecting and completing the requirements from among these 4 options.

Note: Algebra II, Chemistry, and Physics are required for the STEM endorsement regardless of the option the student selects.

Option 1: Computer Science
Students take 4 computer science courses.

• Fundamentals of Computer Science Pre-AP/DC
• Computer Science 1 Pre-AP
• Computer Science 2 AP/DC
• Computer Science 3 H/DC

Option 2: CTE
Students earn four (4) CTE credits by taking at least two (2) courses in the same cluster that lead to a final course in the STEM cluster. At least one (1) of the courses must be an advanced CTE course (3rd year or higher course in a sequence).

Option 3: Math
Students take Algebra I, Geometry, and Algebra II AND two (2) of the following courses for which Algebra II is a prerequisite.

AQR
Pre-Calculus
AP Calculus AB or BC
AP Statistics
AP Computer Science
Math ISM College Algebra
College Prep Math (ISM Advanced Algebra 3)

Option 4: Science
Students take Biology, Chemistry, and Physics, AND two (2) of the following courses.

• AP Biology
• AP Chemistry
• AP Environmental Science
• AP Physics 1
• AP Physics 2
• AP Physics C
• Advanced Animal Science
• Advanced Plant & Soil Science
• Advanced Biotechnology (list only if we are offering it somewhere)
• Anatomy & Physiology
• Aquatic Science
• Earth & Space Science
• Engineering Design & Problem Solving
• Environmental Systems
• Food Science
• Forensic Science
• Integrated Physics & Chemistry (before Chemistry or Physics)
• Medical Microbiology/Pathophysiology (paired semester courses)
• Scientific Research & Design

Option 5: Combination
In addition to Algebra II, Chemistry, and Physics, a student may take a coherent sequence of three (3) additional credits from no more than two (2) options

Business & Industry

Students may earn a Business & Industry endorsement by selecting and completing the requirements from among these 2 options.

Option 1: CTE
Students earn four (4) credits in a coherent sequence by taking at least two (2) courses in the same cluster. At least one (1) of the courses must be an advanced CTE course. (3rd year or higher course in the sequence).

Clusters include:

• Agriculture, Food, and Natural Resources
• Architecture and Construction
• Arts, Audio/Video Technology, and Communication
• Business Management and Administration
• Finance
• Hospitality and Tourism
• Information Technology
• Manufacturing
• Marketing
• Transportation, Distribution, and Logistics

Option 2: English
Students take four (4) English elective credits that include three levels in one of the following areas

• Advanced Journalism: Newspaper or Yearbook
• Debate

Public Services

Students may earn a Public Services endorsement by selecting and completing the requirements from among these 2 options.

Option 1: CTE
Students earn four (4) credits in a coherent sequence by taking at least two (2) courses in the same cluster. At least one (1) of the courses must be an advanced CTE course. (3rd year or higher course in the sequence).

• Education and Training
• Health Science
• Human Services
• Law, Public Safety, Corrections, and Security

Option 2: JROTC
Student takes four (4) JROTC courses for 4 credits.

Arts & Humanities

Students may earn an Arts & Humanities endorsement by selecting and completing the requirements from among these 4 options.

Option 1: Social Studies
Students take five (5) social studies credits.

Option 2: LOTE (Language other than English)
Students take four (4) levels of the same LOTE for 4 credits.

OR
Students take two (2) levels of one LOTE and two (2) levels of a different LOTE for 4 credits.

Option 3: Fine Arts
Students take four (4) courses in the same fine arts area for 4 credits

OR
Students take two (2) courses in one fine arts area and two (2) courses in a different fine arts area for 4 total credits.

Option 4: English
Students take four (4) elective credits selected from the following courses.

• English IV
• Independent Study (ISM) in English
• Literary Genres
• Creative Writing
• Research and Technical Writing
• Humanities
• AP English Literature & Comp
• Communication Applications

Multidisciplinary Studies

Students may earn a Multidisciplinary Studies endorsement by selecting and completing the requirements from among these 3 options.

Option 1: Four by Four (4 x 4)
Students take four (4) courses in each of the four core content areas.

• Four (4) English credits including English IV
• Four (4) math credits
• Four (4) science credits including biology and chemistry and/or physics
• Four (4) social studies credits

Option 2: AP and Dual
Students take four (4) credits in Advanced Placement or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts.

Option 3: Combination
Students take four advanced courses that prepare them to enter the workforce or postsecondary education without remediation from within one endorsement area or among endorsement areas not in a coherent sequence.
STAAR / END OF COURSE GUIDANCE FOR NISD
STUDENTS, PARENTS, COUNSELORS AND TEACHERS

STATE OF TEXAS ASSESSMENTS OF ACADEMIC READINESS
(Mandated by the 81st Texas Legislature)
✓ Students entering 9th grade prior to 2011-2012 will take the Exit TAKS.
✓ Students entering 9th grade in 2011-2012 and beyond must take the End of Course (EOC) tests for the courses in which they are enrolled. This includes middle school students taking Algebra I.

EOCs Subject Areas
1. English I
2. English II
3. Algebra I
4. Biology
5. U.S. History

EOC Student Performance Levels
I. Unsatisfactory Academic Performance
- Performance in this category indicates that students are inadequately prepared for the next grade or course and do not demonstrate a sufficient understanding of the assessed knowledge and skills. Unsatisfactory refers to a score that is below Level II.
- Students who did not achieve a satisfactory score must retake the EOC test.

II. Satisfactory Academic Performance
- Performance in this category indicates that students are sufficiently prepared for the next grade or course and the ability to think critically and apply the assessed knowledge and skills in familiar contexts.

III. Advanced Academic Performance
- Performance in this category indicates that students are well-prepared for the next grade or course and the ability to think critically and apply the assessed knowledge and skills in varied contexts, both familiar and unfamiliar.

EOC Re-takes
✓ Retake tests will be administered three times a year:
  - End of fall semester
  - End of spring semester
  - Summer
✓ The student must retake an EOC test that does not meet Level II Satisfactory Score.

Accelerated Instruction
✓ Provided for any student who fails an EOC test.
✓ Provided at each high school to meet students’ needs.

EOC Courses Taken in Middle School
✓ Middle school students are required to take the EOC for the high school course in which they are enrolled (Algebra I).

Student Transfers
✓ Student transfers include students who have transferred to NISD from:
  - Home schools
  - Out-of-district schools
  - Out-of-state schools
  - Out-of-country schools
✓ Student transfers must take EOC tests for the courses in which they are enrolled for each core subject area.

Assessment for All Students
✓ STAAR for all!
✓ Serves the needs of students in Special Education
✓ Serves the needs of English language learners

Resources:
✓ Texas Education Agency
  http://www.tea.state.tx.us/student.assessment/
  http://www.tea.state.tx.us/student.assessment/staar/
  http://www.tea.state.tx.us/student.assessment/special-ed/staarm/
  http://www.tea.state.tx.us/student.assessment/special-ed/staaralt/
✓ Education Service Center Region 20
  http://portal.esc20.net/portal/page/portal/STAAR/Home
✓ Northside ISD STAAR website
  http://www.nisd.net/staar/
✓ Campus website

Student Action Plan
✓ Stay informed about EOC practices and changes.
✓ Learn the grading policies and know your grades.
✓ Commit to making the highest 6/9 weeks’ grade possible.
✓ Attend class every day.
✓ Determine your need for EOC re-takes.
✓ Re-take EOC tests As Soon As Possible.
✓ Communicate: Have ongoing conversations with your counselor, parents, and teachers.

Parent/Guardian Action Plan
✓ Stay informed about graduation requirements.
✓ Learn the grading policies and how to apply them to your child’s grades.
✓ Use Parent Connection to keep track of your child’s grades and EOC test scores.
  www.nisd.net/parentconnection/
✓ Encourage your child to excel in all courses and attend class every day.
✓ Communicate: Have ongoing conversations with your child, your child’s counselor, teachers, and academic dean.
Course Sequences for NISD Career & Technology Endorsements

While all campuses offer all 5 Endorsements, not all Endorsement strands are offered on all campuses. If space is available students may take courses as electives.

**Business & Industry Endorsement**
Public Services Endorsement

Education
- #8450 Principles of Human Services 1 credit 9th – 10th
- #8460 Child Development ½ credit 10th – 12th
  & #8452 Interpersonal Studies ½ credit 11th – 12th
- #8461 Child Guidance 2 credits 11th – 12th
  Or #8252 Instructional Practices in Education & Training 7 credits 11th – 12th
- #8253 Practicum in Education & Training 2 credits 12th

Cosmetology
- #8450 Principles of Human Services 1 credit 9th – 10th
- #8470 Cosmetology I 3 credits 10th – 12th
- #8471 Cosmetology II 3 credits 11th – 12th

Comprehensive High Schools

Health Science
- #8353 Medical Terminology ½ credit 9th & #8154 Professional Communications ½ credit (if offered) 9th – 12th
- #8352 Principles of Health Science 1 credit 10th – 12th
- #8356 Health Science 2 credits 11th – 12th
- #8380 Anatomy & Physiology 1 credit 11th – 12th
- #8381 Medical Microbiology ½ credit 11th – 12th

Fire Science
- #8550 Principles of Law, Public Safety, Corrections, & Security 1 credit 9th – 10th
- #8560 Fire Fighter I 2 credits 10th – 12th
- #8561 Fire Fighter II 7 credits 11th – 12th

Law Enforcement
- #8550 Principles of Law, Public Safety, Corrections, & Security 1 credit 9th – 10th
- #8552 Law Enforcement I 1 credit 10th – 12th
- #8555 Law Enforcement II 1 credit 11th – 12th
- #8558 Forensic Science 1 credit 11th – 12th
  & #8352 Court Systems & Practices 1 credit 11th – 12th
Science, Technology, Engineering & Mathematics

STEM Endorsement

Electronics

#8700 Concepts of Engineering & Technology
1 credit
9th – 10th

#85/U4 Electronics
1 credit
10th – 12th

#8710 Robotics & Automation
1 credit
11th – 12th

Practicum in Science, Technology, Engineering, & Mathematics
2 credits
12th

Engineering

#8700 Concepts of Engineering & Technology
1 credit
9th – 10th

#8701 Engineering Design & Presentation
1 credit
10th – 12th

#8702 Advanced Engineering Design & Presentation
2 credits
11th – 12th

#8714 Practicum in Science, Technology, Engineering, & Mathematics
2 credits
12th
Course Descriptions

Creative Writing (10-12)
Students will read, study, and analyze various literary forms; learn literary conventions and criteria for literary criticism; and write poetry, fiction, nonfiction, and drama. Student writing in all genres will be submitted to contests and various publications.
PR: English I SEM: 1 CR: 1/2

Analysis of Visual Media (11-12)
This course will help students develop a critical understanding of the powerful persuasive, informative, and artistic forces which influence their lives. Students will view, discuss, read, and write about a wide variety of films, develop an understanding of the language of film, and explore the emotional and intellectual effects of the visual media on viewers. (Clark, Taft, Holmes, Marshall)
PR: English I and II SEM: 1 CR: ½

Humanities (11-12)
This course is designed for juniors and seniors who are interested in developing an appreciation of the fine arts through music, art, and literature. The approach is an interdisciplinary historical survey of selected representative great works of the major cultural epochs from prehistoric civilizations to the modern period.
PR: English I and II SEM: 2 CR: 1

Literary Magazine Production (11-12)
Working within time constraints and budget limitations, students will develop financial responsibility in producing and publishing matters. They will also plan and implement an advertising campaign, cut and crop photographs, write and edit copy, produce effective graphic art, and offer the literary magazine for sale.
PR: English I and II SEM: 1 CR: 1/2

literary Magazine Production II (12)
This course is for those students who have successfully completed Creative Writing and Literary Magazine Production I. Writing skills will be expanded. Students will participate in the selection and preparation of the literary magazine and will probably work in leadership positions.
PR: Creative Writing, Literary Magazine Production I, English III SEM: 2 CR: 1

Research and Technical Writing (10-12)
This course prepares students to skillfully research a variety of topics and present that information through a variety of media. All students will demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English as they write persuasive and informative texts. Students will evaluate their own writing as well as critically read the writing of others.
PR: Eng I SEM: 1-2 CR: ½-1

Literary Genres (11-12)
Through the study of a specific literary genre, students will analyze the fictional and poetic elements of texts and read to appreciate the writer’s craft. Students will also discover how well written literary texts serve as models for their own writing. They will have the opportunity to respond to oral, written, and electronic text while connecting to and expanding their knowledge of the world.
PR: Eng I and II SEM: 1-2 CR: ½-1

Journalism I (9-12)
This course is designed to introduce students to the history of mass media and its role in contemporary society. Included are the study of the basic features of journalism and newspaper production, freedom and responsibility of the press, career opportunities in mass communications, and writing to fulfill a variety of assignments.
PR: "B" average in English SEM: 2 CR: 1

Yearbook Production I, II, III, IV (9-12)
The class assumes responsibility for developing the school newspaper, which includes advanced study of feature, column, and layout considerations in publishing a yearbook; the printing process; and preparation of press-ready materials.
PR: Success Indicators SEM: 2 CR: 1

Honors Journalism: Advanced Journalism
This course is for students who have successfully completed an Introduction to Journalism course. Students will be expected to produce high-quality journalism that meets industry standards. The course will cover advanced topics in reporting, writing, and editing, as well as media ethics and law.
PR: Success Indicators SEM: 2 CR: 1

English Language Arts Electives

Media Literacy/Film Criticism (9-12)
Students will understand how media such as film, radio, internet, television, magazines, and newspapers influence our tastes, our behavior, the things we buy, and even the way we vote. The course will explore the history of mass media as well as production techniques from lighting and camera angles to ad placement and scripting. Students will analyze all forms of media and film as well as produce their own ads, commercials, screenplays, and movies.
O’Connor
SEM: 2 CR: 1

Students failing EOC/TAKS may be placed in practical writing and/or reading classes, rather than electives, in order to improve their reading and writing skills.
Photography I, II, III (10-12)
This course includes the study of photographic composition; use of the camera; and photographic techniques such as framing, silhouette, and use of depth-of-field. Students must have daily access to a 35mm SLR camera for use in this class.
PR: Success Indicators SEM: 2 CR: 1

Reading
Reading I (9-12)
Reading I helps ninth through twelfth graders who are having considerable difficulty in reading. Students will learn study strategies, test-taking skills, and reading and writing processes necessary for handling a wide variety of materials, including school materials, work-related reading, and pleasure reading in self-selected texts. Students eligible for this class include those who meet any of the following criteria: students who fail to pass the reading objectives of the TAKS Reading or ELA tests, fail two or more content subjects, or are designated as at-risk.
This course is designed to teach reading as a life skill as well as to encourage reading for recreation.
PR: Recommendations of counselor and/or reading specialists SEM: 2 CR: 1

Reading II (10-12)
Reading II helps tenth through twelfth graders who are still experiencing reading difficulty and need additional reading assistance after completing Reading I. PR: Recommendations of counselor and/or reading specialists SEM: 2 CR: 1

Reading III (11-12)
Reading III helps those eleventh through twelfth graders who have completed Reading I and Reading II who still need additional help and support with their reading. These students may still be scoring low on state and district tests and experiencing difficulty in their school classes. PR: Recommendations of counselor and/or reading specialists SEM: 2 CR: 1

Reading Development (Achieve 3000)
The Achieve 3000 Program is designed for students who need extra support in reading strategies, spelling, critical thinking, test-taking skills, and who enjoy using computerized modes of reading instruction. Comprehension skills and improved reading in the content areas are the course outcomes. This course is also designed to support identified students with dyslexia. PR: Reading specialist and counselor recommendations SEM: 2 CR: 1/2

Speech
Communication Applications (11-12)
This course is a requirement for the graduation plan. Students will identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations.
SEM: 1 CR: 1/2

Speech Electives
Debate I Honors (9-12)
This course is designed to teach basic argumentation skills. Students will become familiar with various debate formats, basic research skills, and effective presentations. Students will learn to analyze topics and to support a point of view. Some participation in UIL, TFL and/or NFL competition is required.
PR: Success Indicators Pre-AP Program for incoming freshmen.
SEM: 2 CR: 1

Oral Interpretation I, II, III (9-12)
This is a course for self-motivated students interested in speech competition. This course involves oral interpretation of literature: prose, poetry, and drama. Competition events include extemporaneous speaking, oration, dramatic and humorous interpretation, and duet acting. Participation in UIL, TFL and/or NFL competition is required.
PR: Success Indicators SEM: 1-2 CR: ½ - 1

Debate II and III Honors (10-12)
This course is an extension of Debate I with a more intensive study of all the debate elements. Competition is required.
PR: Debate I SEM: 2 CR: 1

Speech II: Public Speaking (10-12)
This course provides an in-depth analysis of communication through the study of famous speeches, propaganda, mass media, mock trials, and logic.
PR: Success Indicators SEM: 2 CR: 1

Independent Study: Speech Honors
This course focuses on research and development of higher-level thinking skills concerning historical, political, social, and economic questions similar to those introduced to students in Debate I, II, and III. The depth of research and study, the intensity of exploration, and the oral presentation will be such as to demonstrate superlative control and execution of speech skills.
PR: Debate I, II, III / Success Indicators SEM: 2 CR: 1

Independent Study Mentorship Honors (ISM)
Speech (11-12)
This course is open to eleventh and twelfth grade students in the Gifted and Talented Program and those who are in honors/preAP classes. ISM students conduct comprehensive research resulting in an original product or performance. Students may choose to work in any content area. They seek guidance from a professional mentor(s) in the process of designing their research and producing their product. Students learn task commitment and time management as prerequisites to completing successful projects. Productive questioning strategies, critical thinking, time management, and techniques for performing high-level research are taught in this course. Students needing Communication Applications credit may receive it with this course.
PR: Junior or senior, honors or GT Personal transportation to mentoring sites; Honors level work Application approval required. CR: Consult GT teacher SEM: 2 to 4

ESOL
English ESL (9-12)
This course is designed for students who are at a beginning level of English proficiency. Instruction emphasizes an integrated language arts approach to strengthening oral and written language skills in social as well as academic English. The teacher also clarifies key concepts and academic vocabulary from the students’ other content areas.
PR: LPAC Approval SEM: 1-2 CR: 1/2 - 1 local credit

Journalism Forum
Student journalists spend a day learning about mass communication career opportunities from such media professionals as photographers, reporters, news anchors, public relations directors, and others.

Special English Language Arts Events:
May Day Celebration of Poetry
Three students from each campus are recognized in a special ceremony each May. See an English teacher for details.

Gifted and Enrichment
Advanced Learning Programs for High Achievers (ALPHA)

Independent Study Mentorship (ISM)
Honors (11-12)
This course is open to eleventh and twelfth grade students in the Gifted and Talented Program and those who are in honors/preAP classes. ISM students conduct comprehensive research resulting in an original product or performance. Students may choose to work in any content area. They seek guidance from a professional mentor(s) in the process of designing their research and producing their product. Students learn task commitment and time management as prerequisites to completing successful projects. Productive questioning strategies, critical thinking, time management, and techniques for performing high-level research are taught in this course. Students needing Communication Applications credit may receive it with this course.
PR: Junior or senior, honors or GT Personal transportation to mentoring sites; Honors level work Application approval required. CR: Consult GT teacher SEM: 2 to 4

GT Student Leadership Honors
This Honors course is designed for freshman or sophomore students who are in the Gifted and Talented Program. Students will have an opportunity to study, practice, and develop group and individual leadership and organization skills. These skills include, but are not limited to, decision-making skills, problem-solving techniques, communication skills, leadership roles, human relation skills and understanding the need for civic responsibility. Students also are provided opportunities to explore future college options and to prepare for the PSAT. This course is a hands-on, lab-oriented approach to leadership and college preparation. Students may participate in the NEFE Financial Literacy Program and two Jr. Achievement programs. They will also leave the class with a beginning resume in hand and will receive Communication Applications credit.
PR: Enrollment in GT Program required SEM: 2 CR: 1 Honors

GT Leadership II
GT Leadership II is a semester elective class open to all identified 10th and 11th grade students. This semester course can be blocked with Health or Speech Communication Application. Students will be taught by the Gifted Specialist for the GT Leadership II portion of the year. In GT Leadership II, students will be provided opportunities to develop and implement their own community service project. Students will work on research skills as well as continue to improve their verbal and non-verbal communication skills throughout the year through service learning.
PR: Consult GT Teacher SEM: 1 to 2 CR: 1 Honors

English I SOL (9-12)
This course may be substituted for English I for immigrant students with limited English proficiency only. The course incorporates both second language acquisition essential knowledge and skills and English language arts essential knowledge and skills.
PR: LPAC Approval SEM: 2 CR: 1 state credit

English II SOL (10-12)
This course may be substituted for English II for immigrant students with limited English proficiency only. The course incorporates both second language acquisition essential knowledge and skills and English language arts essential knowledge and skills.
PR: LPAC Approval SEM: 2 CR: 1 state credit
Mathematics

Applied Mathematics (9-12)
Applied Mathematics 1-4 are locally-developed courses offered for local credit to students receiving special education services with a focus on basic mathematical skills necessary for employment and independent living. Topics include money skills, banking, consumer skills, housing concerns, transportation, and recreation issues. CR: LC

Algebra I (9-12)
The purpose of this course is to provide a foundation for students to solve problems using functions, symbolic reasoning and mathematical modeling. The student will investigate real numbers, linear equations and inequalities as well as linear, quadratic and exponential functions. This course provides a foundation for upper level mathematics courses.
PR: 8th grade math SEM: 2 CR: 1

Algebra I Pre-AP (9)
This course is designed to include all the Algebra I NISD Standards and TEKS with an emphasis on complex problem-solving. This will build a foundation for success in AP Calculus and AP Statistics.
PR: 8th grade math SEM: 2 CR: 1

Geometry (9-12)
This course includes plane and solid geometry, coordinate geometry, and transformational geometry. It provides the study of traditional and non-traditional proofs, transformations, similarities, coordinate geometry, area, and volume. Geometry is a required course for high school graduation.
PR: Algebra I SEM: 2 CR: 1

Geometry Pre-AP (9-12)
This course provides an enriched geometry program with a greater emphasis on logical reasoning, higher order thinking skills, and problem solving. All topics and credits given for Geometry above apply to this course. Most students will have completed Algebra I Pre-AP prior to enrolling in Geometry Pre-AP.
PR: Algebra I SEM: 2 CR: 1

Algebra II (9-12)
The purpose of this course is to extend the concepts and skills developed in Algebra I. Students will explore families of functions and their related transformations, equations and associated solutions. Students will use real-world data and technology to solve problems using these mathematical models.
PR: Algebra I SEM: 2 CR: 1

Algebra II Pre-AP (9-12)
This course provides an enriched course in Algebra II. It emphasizes higher order thinking skills, problem solving, and preparation for higher levels of mathematics and related fields. Most Algebra II Pre-AP students successfully completed Geometry Pre-AP.
PR: Algebra I SEM: 2 CR: 1

College Prep Math (Independent Study Mathematics--Advanced Algebra 3) (12th)
The purpose of this course is to reinforce and build upon algebra topics to prepare the student for college readiness. This course is a blend of Elementary and Intermediate Algebra which will prepare the student for success in a college-entry math course, such as College Algebra. The coursework requires students to be proficient both with and without the calculator.
PR: Algebra II

Mathematical Models with Applications (10-12)
In this course, students use mathematical methods to model and solve real-life applied problems involving money, data, probability and statistics, patterns, music, art, and science. Students use a variety of tools including technology to solve problems and model purely mathematical concepts. Algebra I and Geometry concepts are reinforced in this class.
PR: Algebra I SEM: 2 CR: 1

Precalculus (10-12)
The purpose of this course is to explore many advanced mathematical models which are often used in science, engineering, and other career fields. Topics include: properties and graphs of trigonometric and circular functions and their applications; properties and graphs of special functions; higher degree polynomial functions, sequences and series.
PR: Algebra I, Geometry, Algebra II SEM: 2 CR: 1

Precalculus Pre-AP (10-12)
The purpose of this course is to prepare students for careers in math, science, engineering, and other fields and to provide a foundation for higher level math courses. Topics include: exponential and logarithmic functions, trigonometric and circular functions, vectors, complex numbers, sequences, and series. This course combines trigonometry, analytic geometry, and elementary analysis. Most Precalculus Pre-AP students successfully complete Algebra II Pre-AP.
PR: Algebra I, Geometry, Algebra II SEM: 2 CR: 1

Advanced Quantitative Reasoning (11-12)
AQR is an engaging and rigorous project-based course that prepares students for a range of future options in non-mathematical college majors or for entering workforce training programs. The course emphasizes statistics and financial applications, and it prepares students to use algebra, geometry, trigonometry, and discrete mathematics to model a range of situations and solve problems.
PR: Geometry, Algebra II SEM: 2 CR: 1

Independent Study Mathematics—College Algebra (11-12)
This course includes the study of quadratics, polynomial, rational, logarithmic, and exponential functions, systems of equations, progressions, sequences and series, and matrices and determinants.
PR: Geometry, Algebra II SEM: 2 CR: 1

Advanced Placement Courses

AP Computer Science I (9-12) (T) or (Math)
This AP computer science course prepares students for the College Board Advanced Placement exam. Students who score 3 or higher on this exam may receive college credit. The programming topics listed for Computer Science Honors are taught as well as others prescribed by the College Board. This course meets the technology requirement for graduation.
PR: Algebra I and Geometry SEM: 2 CR: 1

AP Calculus AB (11-12)
This course is a rigorous college-level calculus course leading to the College Board Advanced Placement AB Calculus Exam and to possible college credit for one semester. Topics include: concepts and skills of limit, differentiation, integration, and applications of calculus.
PR: Precalculus SEM: 2 CR: 1

AP Calculus BC (11-12)
Calculus AP BC is equivalent to two full semesters of college calculus. Students may earn this college credit by scoring 3 or higher on the Advanced Calculus BC examination. In addition to the material covered in Calculus AB, the BC course includes concepts and applications of polar, vectors, sequences and series.
PR: Precalculus SEM: 2 CR: 1

AP Statistics
The purpose of the Advanced Placement Statistics course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data, Planning a Study, Anticipating Patterns, and Statistical Inference. Students who successfully complete the course and examination may receive Credit and/or advanced placement for a one-semester introductory college statistics course.
PR: Algebra II SEM: 2 CR: 1

Science

Core Science Courses

Grade 8 Science STAAR achievement and middle school science course grades will be considered in determining freshman science placement.

Applied Science (9-12)
Applied Science 1-4 are locally-developed courses offered for local credit to students receiving special education services which include biology, personal health, geology and physical science. Topics focus on essential health issues and scientific concepts which are necessary for employment and independent living, such as: personal safety, physical and psychological needs, first aid, diseases and prevention, self-advocacy, genetics, ecology, body systems, classification systems, household chemistry, and energy. CR: LC

Biology (9)
Students study a variety of topics that includes structures and functions of cells and viruses; growth and development of cells; cells, tissues and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment. The State of Texas Assessment of Academic Readiness (STAAR) exam will be administered at the end of this course.
PR: None SEM: 2 CR: 1

Biology Pre-AP (9)
Students in this advanced course investigate the same topics as the Biology course, enriched with higher level content and investigations to prepare for the AP Biology course. (Minimum 40% lab)
PR: None SEM: 2 CR: 1

Integrated Physics and Chemistry (IPC) (9-10)
Students study the concepts in physics including force, motion, and energy and in chemistry including properties and changes of matter. Instruction will include laboratory and field investigations using scientific methods, critical thinking and problem solving. IPC is usually taken after Biology and before Chemistry or Physics. (Minimum 40% lab)
PR: None SEM: 2 CR: 1

Chemistry (10-12)
Students study a variety of topics that includes characteristics and changes of matter, use of the periodic table, the development of atomic theory, chemical bonding, stoichiometry, gas laws, solutions, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives. (Minimum 40% lab)
PR: Algebra I, Biology, concurrent enrollment in a second math course SEM: 2 CR: 1

Chemistry Pre-AP (10-12)
Students in this advanced course investigate the same topics as Chemistry, enriched with higher level content and lab investigations to prepare for the AP Chemistry course. (Minimum 40% lab)
PR: Algebra I, Biology, concurrent enrollment in a second math course SEM: 2 CR: 1

Check Deadlines Required to Apply for Dual Credit Courses.
Advanced Placement Courses

**AP Biology (11-12)**
This is a rigorous college level course organized around the underlying concepts that govern biological systems: evolution and the diversity of life, energy and homeostasis, storage and transmission of information and the interaction of biological systems. This course includes the lab science practices designated by the College Board. Students prepare to take the AP Biology exam in May. Students successful in this course have likely completed Biology, Chemistry, Algebra I and Geometry. Physics and Algebra II may be taken concurrently.

**Sem:** 2 **Cr:** 1

**AP Chemistry (11-12)**
This is a rigorous college course organized around the underlying concepts that govern chemical systems: atomic theory, the forces within matter, changes of matter, kinetic molecular theory, thermodynamics and equilibria. This course includes the lab science practices designated by the College Board. Students prepare to take the AP Chemistry exam in May. Students successful in this course have likely completed Biology, Chemistry, Algebra I, and Geometry. Algebra II and Physics may be taken concurrently.

**Sem:** 2 **Cr:** 1

**AP Environmental Science (11-12)** This course is a rigorous, college-level study of environmental topics including the interdependence of Earth's systems; human populations dynamics; renewable and nonrenewable resources, environmental quality; global changes and their consequences; and environmental decision-making. The course also includes the strong lab component designated by the College Board. Students will prepare to take the AP Environmental Science Exam in May.

**Pr:** Biology, Chemistry

**Sem:** 2 **Cr:** 1

**AP Physics 1 (11-12)**
AP Physics 1 replaced PreAP Physics. AP Physics 1 and AP Physics 2 are each one-year courses. Students in AP Physics 1 will study kinematics, Newton's laws, circular and rotational motion, universal gravitation, harmonic motion, impulse, momentum, collisions, work, energy, electrostatics, DC circuits, and mechanical waves including sound. This course includes the lab science practices designated by the College Board. Students will prepare to take the AP Physics 1 Exam in May. This credit counts as a student's physics course for graduation. After this course, students may take AP Physics 2, AP Physics C (calculus-based physics), another AP science course or other science elective.

**Pr:** Biology, Chemistry, Algebra I, Geometry, and Algebra II.

**Sem:** 2 **Cr:** 1

**AP Physics 2 (11-12)**
This course may be taken after AP Physics 1. This course builds on the topics of AP Physics 1 and includes thermodynamics, fluids, electrostatics, DC and RC circuits, magnetism and electromagnetic induction, waves and optics, plus quantum, atomic and nuclear physics. This course includes the lab science practices designated by the College Board. Students prepare to take the AP Physics 2 Exam in May. This course does not count as a student's physics course for graduation.

**Pr:** Biology, Chemistry, AP Physics 1, Algebra I, Geometry, Algebra II, Precalculus.

**Sem:** 2 **Cr:** 1

**AP Physics C (11-12)**
This rigorous second physics course is most often taken by students preparing for higher education in the physical sciences, engineering or electronics. Investigations and problem solving will apply calculus and technology aligned with the College Board guidelines. Topics include mechanics and electricity/magnetism for which there are separate AP exams. Students will prepare to take both exams in May.

**Pr:** Biology, Chemistry, Physics PreAP or Physics 1; Algebra I, Geometry, Algebra II, PreCalculus, Calculus.

**Sem:** 2 **Cr:** 1

**Texas History Day**
Texas History Day is part of the National History Day program, and provides opportunities for students in grades six through twelve to develop their knowledge of history, critical thinking, analytical skills, and creativity with competitive events on a district, regional, state, and national level.

**Social Studies**
It is recommended that students take World Geography in 9th grade, World History in 10th, United States History in 11th, and Government/Economics in 12th grade.

**Core Courses**

**World Geography Studies (9-12)**
This course examines people, places, and environments at local, regional, national, and international levels. Students will study the influence of geography on events of the past and present; the characteristics of major land forms, climates, and ecosystems; and the political, economic, and social processes that shape cultural patterns of regions.

**Pr:** None

**Sem:** 2 **Cr:** 1

**Pre-AP World Geography (9-12)**
This course provides an enriched world geography program with a greater emphasis on logical reasoning, higher order thinking skills, and problem solving. All topics and credits given for World Geography above apply to this course. Most students will have completed eighth grade Pre-AP U.S. History prior to enrolling in World Geography Honors.

**Pr:** None

**Sem:** 2 **Cr:** 1

**World History Studies (9-12)**
This course emphasizes the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world.

**Pr:** None

**Sem:** 2 **Cr:** 1

**Pre-AP World History (11-12)**
This course is much like the AP World History course. Course content will be similar to the College Board requirements, but will follow the District's guidelines. This course may be taken in place of the regular World History course.

**Pr:** None

**Sem:** 2 **Cr:** 1

**United States Government (12)**
This course focuses on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created.

**Pr:** None

**Sem:** 1 **Cr:** 1/2

**United States History Studies Since Reconstruction (9-12)**
This course is the second year of a two-year sequential study begun in the 8th grade. It includes historical content focusing on the political, economic, and social events and issues of the period from 1877 to the present.

**Pr:** None

**Sem:** 2 **Cr:** 1

**Economics with Emphasis on the Free Enterprise System and Its Benefits (12)**
This course focuses on the basic principles concerning production, consumption, distribution of goods and services in the United States and a comparison with those in other countries around the world. Students will examine the rights and responsibilities of consumers and businesses in a free enterprise system.

**Pr:** None

**Sem:** 1 **Cr:** 1/2
International Relations Studies Honors (11-12)
This course introduces students to contemporary foreign and domestic affairs which affect the lives of all Americans. Each student uses an atlas and is furnished a news magazine. Class discussion, research, news media, and lectures on current international relations/situations are included each day. The class updates the previous day's international events.
PR: Core Courses SEM: 2 CR: 1

Issues Involving Critical Thinking in the Social Studies (11-12)
This course will teach students to develop the concepts, skills, and processes necessary to become critical thinkers through the study of relevant current political, social, economic, and cultural issues as projected through the various forms of public media. Special attention will be focused on the impact television has on the formulation of people's attitudes, values, and perceptions of complex issues.
PR: Core Courses SEM: 1 CR: 1/2

Psychology (11-12)
This course is designed to allow students to consider the development of the individual and the personality. The course focuses on such topics as theories of human development, personality, motivation, and learning. The aim is to help students become more effective in their careers and in their personal lives.
PR: Core Courses SEM: 1 CR: 1/2

Sociology (11-12)
This course is designed for students who desire a better understanding of themselves through a study of society. Students examine topics such as the history and systems of sociology, cultural and social norms, social institutions, and mass communication through the study of dynamics and models of individual and group relationships.
PR: Core Courses SEM: 1 CR: 1/2

Street Law (11-12)
This course focuses primarily on the criminal justice system -- crimes, investigations, the arrest and arraignment phase, the trial, the differences in the juvenile justice system. Guest speakers -- policemen, private investigators, and judges -- introduce the law and the legal system in the United States.
PR: Core Courses SEM: 1 CR: 1/2

World Area Studies: Global Economy (11-12)
This course concentrates on the theory and practice of international trade and finance. Its focus is on the following: development economics; world trade equilibrium; commercial policy with specific concentration on trade agreements; exchange rates and their risk on international lending markets; and macroeconomics linkage between countries.
PR: Core Courses SEM: 1 CR: 1/2

A Study in Comparative Religions Honors (12)
A Study in Comparative Religions is a senior honors social studies elective. It offers students an opportunity to compare five major world religions-Judaism, Hinduism, Christianity, Buddhism, and Islam. The course emphasizes scholarly research and historical inquiry that will assist students to become global citizens.
PR: None SEM: 1 CR: 1/2

Advanced Placement Elective Courses

AP United States Government and Politics (11-12)
This course will give students an analytical perspective on government and politics in the United States. It includes the study of the various institutions, groups, beliefs and ideas that constitute U.S. politics as well as the general concepts used to interpret U.S. politics, and the analysis of specific examples. This course may be taken in place of the regular Government course. Students may earn college credit through the College Board AP Examination which is offered in May of each year. The fee for the AP exam is the responsibility of the student.
PR: None SEM: 1 CR: 1/2

AP Human Geography (9)
AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. Students may earn college credit through the College Board AP Examination which is offered in May of each year. The fee for the AP exam is the responsibility of the student.
This course replaces the requirement to take World Geography to complete graduation requirements.
PR: None SEM: 1 CR: 1

AP Macroeconomics (11-12)
This course provides 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-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.
PR: None SEM: 1 CR: 1/2

AP Microeconomics (11-12)
This course provides a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. (Offered at Clark High School ONLY)
PR: None SEM: 1 CR: 1/2

AP Psychology (11-12)
This course includes the history of psychology and studies in research methods and statistical analysis, human growth and development, learning and memory, intellectual abilities and testing, motivation and emotion, and psychological disturbances and therapies. Students may earn college credit through the College Board AP Examination which is offered in May of each year. The fee for the AP exam is the responsibility of the student.
PR: Core Courses SEM: 1 CR: 1/2

AP European History
This course introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. The goals of AP European History are to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. Students may earn college credit through the College Board AP Examination which is offered in May of each year. The fee for the AP exam is the responsibility of the student.
PR: Core Courses SEM: 2 CR: 1

International Languages

French, German, Spanish, Latin, American Sign Language (ASL)
The International Languages offered in Northside ISD are French, German, Latin, Spanish, and ASL (offered at Marshall HS only). Since the approach to the teaching of all modern languages is similar, the following descriptions are applicable to each level of each language. Latin is a classical language and uses a reading approach in its curriculum. ASL is a performance language; students will develop their signing skills in various everyday situations. The five Cs of Communication, Cultures, Connections, Comparisons, and Communities are covered in all of the International Languages Courses as part of the Texas Essential Knowledge and Skills for Languages Other Than English (TEKS for LOTE) and the Northside ISD International Languages Standards.

Level I (French, German, Spanish) (9-11)
This course focuses on developing speaking and listening comprehension skills. Students are exposed to basic reading and writing skills. Students are introduced to the people, their customs, and other aspects of their culture. Students have the opportunity to work in pairs and small groups to role play real-life situations using the language.
PR: None SEM: 2 CR: 1

Level I Spanish for Spanish Speakers (9-11)
This course is especially designed for students who can understand Spanish, but cannot speak it or speak it very little. Students DO NOT have to be fluent nor speak perfect Spanish to take this class. This course provides the students an opportunity to refine and expand the language skills they already possess. Students will have opportunities to engage in simulated real-life situations using an enriched curriculum exposing them to their Hispanic Culture, Customs, Heritage, and History.
PR: Language survey and placement test. SEM: 2 CR: 1

Please Note:
Students will have the opportunity to enroll in several levels of language classes from I-V and may take regular, Pre-AP, and/or Advanced Placement classes. With the opportunity to begin language study in middle school, students may continue the same language in the advanced levels or they are encouraged to begin the study of another international language whenever possible.
Level 2 Regular (French, German, Spanish) (9-12)
This course continues to focus on opportunities for students to expand their speaking and listening comprehension skills in addition to developing their writing and reading comprehension skills. Students continue to study the culture, the people and their customs. Students will continue to role play and perform dialogues/skills on various every day situations and topics using the language.
PRE: 70 in Level 1 or 80 or better SEM: 2 CR: 1 or 80 or better on the Credit by Exam.

Level 2 Spanish for Spanish Speakers (9-12)
This course is for students who understand and speak some Spanish at this basic level. It offers students opportunities to expand their knowledge of Spanish using special materials and activities designed for Spanish speakers. Students will continue to develop and refine their Spanish skills in speaking, listening, reading, and writing through an enriched curriculum concentrating on Hispanic culture, Customs, Heritage, and History.
PRE: 70 in Spanish/ Spanish Speakers SEM: 2 CR: 1 or 80 or better on the Credit-by-Exam. Language Survey and Placement Test.

Level 2 Pre-AP (French, German, Spanish, Spanish for Spanish Speakers) (9-12)
This course exceeds the Level 2 requirements by including many independent activities requiring performance in the language. The students will continue to refine the four skills by being exposed to an enriched and accelerated curriculum. PR: 90 or better in Level 1 regular or SEM: 2 CR: 1 90 or better in the Credit-by-Exam Level 3 - Regular (French, German, Spanish, Spanish for Spanish Speakers) (9-12)
Students continue to work towards proficiency in speaking and listening comprehension. Students continue to expand their reading comprehension and writing skills. Culture topics are integrated throughout the curriculum.
PR: 70 in Level 2 or 80 or better on the Credit by Exam.

Level 3 Pre-AP (French, German, Spanish, Spanish for Spanish Speakers) (9-12)
Students continue to work towards proficiency in speaking and listening comprehension. The study of some condensed literary works will incorporate the development of reading comprehen-

Spanish for Communications (Spanish SH - Communications Arts H.S.)
This course will concentrate on Spanish Communication skills used in different media. This course is designed to satisfy the needs of the students who wish to pursue specific work to improve and/or increase their ability to listen, speak, read and write the Spanish language; to prepare the students to write and produce a periodi-
cal in the Spanish language and to use technology to produce and distribute a periodical to the community via the web. Students will read and analyze a variety of works in the Spanish language to improve their writing skills.
PRE: 75 or better in Spanish 4 AP SEM: 2 CR: 1

Latin 1 (9-11)
This course offers the students the ability to read Latin phrases and sentences. Vocabulary and grammatical structures are intro-
duced within the context of the readings. Students are exposed to Roman history and culture.
PR: None SEM: 2 CR: 1

Latin 2 (9-12)
This course offers the students the opportunity to continue developing their reading skills in Latin while at the same time increas-
ing their knowledge of grammatical structures. Additional vocabu-

American Sign Language ASL 1 – OFFERED AT MARSHALL HS ONLY
This course is an introductory course of the study of the receptive and expressive aspect of signs, non-manual communication, and grammatical features of ASL in everyday situations and other meaningful contexts. Students will learn basic introductions, greetings, describe people in general, and talk about family members. In addition, students will gain an understanding of using facial expressions, manual signs, and classifiers to convey mean-
ings in ASL using expressive and signing skills.
PRE: None SEM: 2 CR: 1

American Sign Language ASL 2 - OFFERED AT MARSHALL HS ONLY
This course builds on the language skills acquired in ASL 1. Students will develop their signing skills in various everyday situations and further explore cultural perspectives of the deaf community. The Curriculum emphasizes subjects learned in ASL 1 and further enhances student's signing skills and fluidity. “Speed reading” on finger spelled words as well and signed statements are utilized within each of the units in this course. Signing and perceptual skills are mastered and taken to a new level.
PRE: 70 in Level 1 SEM: 2 CR: 1

American Sign Language ASL 3 - OFFERED AT MARSHALL HS ONLY
This course continues the emphasis on communication established in levels 1 and 2. Students will learn structures and vocabulary necessary to interact socially and communi-
 cate in daily living situations. This level of signing is highly rigorous and focuses more on the use on non-manual mark-
ers and classifiers, rather than the use of manual signs.
PRE: Tryout SEM: 2 CR: 1

Physical Education

Adapted Physical Education (9-12)
A student will be assigned to an adapted physical education program if the student has a significant limitation in the psychomotor domain which requires an individualized pro-
gram and intensive interaction with an adapted physical education specialist. Examples of physical conditions include muscular dystrophy, cerebral palsy, and severe orthopedic and visual impairments.
PRE: Adapted PE Coordinator approval SEM: 1-2 CR: 1/2-1

Foundations of Personal Fitness (9-12)
The basic purpose of this course is to motivate students to strive for personal lifetime fitness. The concept of wellness is the cornerstone of this course. A textbook is provided and students complete personal fitness worksheets for direct application of the concepts that are taught. This course is not required for students entering 9th grade in 2010 or after. (Check with your counselor for course offerings)
PRE: None SEM: 1 CR: 1/2

Physical Education (9-12)
Team or Individual Sports
Students enrolled in this course learn sport skills in team and individual sports. Team sport may include traditional sports such as basketball and volleyball, as well as less traditional sports such as lacrosse and team handball. Individual sports may include tennis, golf, and Frisbee golf.
PRE: None SEM: 1 CR: 1/2-1

Aerobics Activities
(See your counselor for course offerings)
Students enrolled in this course are expected to design personal fitness programs that use aerobics activities as a foundation for a physically-active lifestyle. Students learn a level of competency in two or more aerobic activities that may include aerobic dance, jogging, power walking, recrea-
tional dance, and step aerobics.
PRE: None SEM: 1 CR: 1/2-1

Adventure/Outdoor Education
(See your counselor for course offerings)
Students enrolled in this course are expected to develop competency in outdoor education activities that provide opportunities for enjoyment and challenge. Students learn a level of competency in two or more outdoor education activi-
ties such as backpacking, camping, hiking, and orienteering.
PRE: None SEM: 1 CR: 1/2-1

P.E. SUBSTITUTES
Physical Education Credit is substituted for selected school activi-
ties, including:
• Marching Band (fall semester only)
• Athletics (Check with your counselor for course offerings)
• Pep Squad (fall semester only)
• ROTC

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Health Education

Health Education (9-12)
This course is designed to ensure that students acquire the health information and skills necessary to become healthy adults. The major areas of study are: emotional, mental, and physical health; the ill effects of alcohol, drugs, and tobacco on the body and environment; first aid; the prevention of accidents; AIDS education; and diseases. Students will also receive training in cardiopulmonary resuscitation (CPR) leading to certification from the American Heart Association.

PR: None
SEM: 1 CR: 1/2

Advanced Placement

AP Art History (11-12)
This course challenges students to an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students must examine and critically analyze major forms of artistic expression. AP Art History provides students an independent track of study that is more rigorous and academically challenging. Students may also explore media and ideas that involves working on different tracks of rigor and depth. Course availability depends upon teacher certification and assessment rubric.

SEM: 2 CR: 1

AP Art Portfolio Courses (11-12)
This course includes a choice of either AP Drawing Portfolio, AP 2-D Portfolio, or AP 3D Portfolio for each year. Each choice enables students to develop in-depth personal styles and themes in original creation of artworks with opportunities to explore at a high level of difficulty. Portfolio students will be assigned different tracks of rigor, focus, depth, and breadth. Course availability depends upon teacher certification and student portfolio.

SEM: 2 CR: 1

Dual Credit

Art Appreciation (11-12)
Dual Credit Art Appreciation enables the student to receive high school fine arts credit and art credit at Northwest Vista College only. The course is available only at Warren H.S. for the 2014-2015 school year. Art students work in various art media to explore the purposes and processes in the visual arts including evaluation of selected works.

SEM: 2 CR: 1

Band, Orchestra, Choir, Dance, and Theater

Music I-IV, Applied Music I, II, III, IV (9-12)
Applied Music is an independent study course designed for the highly advanced student to develop and demonstrate solo performance skills in voice and string/wind/percussion instruments. Strict timelines for completion of the course are established that allow the student to prepare and work toward the juried evaluation at their own pace, using a prescribed TEA list of literature. Private lesson access is recommended but not required. A formal meeting of student, guardian, campus fine arts instructor (band, choir, orchestra), and district Director of Fine Arts is required to develop the student contract for completion of course for credit. All obligations regarding acquisition of literature, private study, and accompanist fees are the responsibility of the student.

PR: Contract/director meeting
SEM: 1 CR: 1/2

Music Studies, Music Theory I (9-12)
This course is an introduction to the basics of music theory including notation, chord structures, melodic structure, choir sequence ear training, and sight-singing. Students do not need to have taken any accredited music class as a prerequisite for enrollment in this course. Some prior music knowledge is recommended.

PR: Student Audition/Rubric
SEM: 2 CR: 1

Music Studies, Music Theory II (10-12)
Music Theory II is designed to build on the working knowledge developed in Music Theory I, leading to part writing, counterpoint, harmony, arranging, analysis, and performance of original music.

PR: Music Theory I / Student Audition/Rubric
SEM: 2 CR: 1

Music Studies, AP Music Theory I
This course is designed to develop student skills in music notation writing, chord structure, melodic structure, aural sequence ear training, sight-singing, and music composition. Students enrolled in this course should have a strong music background (ensemble setting) or private music lesson background. Course availability will depend upon teacher certification and student audited/rubric.

SEM: 2 CR: 1

Music Studies, AP Music Theory II
This course builds on AP Music Theory I and leads to full development of music notation and composition skills. Students enrolling in this course are required to have successfully completed AP Music Theory I. Students will develop strong composition skills and will be able to compete nationally for composition awards. Course availability will depend upon teacher certification and student audit/rubric.

SEM: 2 CR: 1

Summer Fine Arts Camps in Band, Choir, Orchestra, Theatre, and Visual Arts

may be available throughout the district.

Contact your campus Fine Arts instructors for detailed information.
Music I, Tenor-Bass Choir I, II, III, IV (9-12)
This course stresses basic skills in proper vocal production and music reading. Membership in this organization provides an opportunity for the student to develop personal strengths and positive attitudes towards ensemble participation through the learning of both popular and serious music. The music will be limited only to that which can be performed by tenor-bass voices. Students will perform in many concert performances and other musical activities throughout the year.
PR: Student Audition/Rubric  SEM: 2 CR: 1

Music I-IV, Vocal Ensembles I, II, III, IV (9-12)
Vocal ensembles meet the needs of students with a special interest in singing and performing choral literature other than that studied in the parent choral group. Size and composition of each group are designed to meet requirements of the music to be studied. Music will range from solos to any combination of two or more voices. Ensembles will consist of madrigals, vocal jazz, and other contemporary voice mixtures.
PR: Concurrent enrollment in a choir/Student Audition/Rubric  SEM: 2 CR: 1

Dance

Dance I-IV, Principals of Dance I, II, III, IV (9-12)
Dance I is designed to introduce students to various mediums of dance, including ballet, modern, folk/ethnic, jazz, and tap. Emphasis is on the development of technical and mind/body coordination skills, physical strength, and creativity. Instruction focuses on training the student to combine and coordinate all the elements of dance performance when set to music. Dance I is a general dance survey course and forms the foundation for Dance II, III, IV. Each level of dance instruction builds on the foundation of knowledge and skills established at prior levels. Each course will enhance student confidence, poise, collaborative skills through solo and ensemble performances. Dance students will have multiple opportunities to perform in campus dance recitals, city/state venues, and musicals. Level numbers represent achievement levels, not student grade level. No prior dance training is required to enroll in Level I.
PR for Level I: NONE  PR for Levels II-IV: Teacher Approval  SEM: 2 CR: 1

Dance I-IV, Ballet I-IV (9-12) – OFFERED AT BRANDEIS HS ONLY
This course will develop self-discipline and healthy bodies while applying ballet etiquette and dance safety. Students recognize major ballet works, styles, and ballet artists in history. Students will learn how to execute ballet technique, use ballet vocabulary, and perform barre exercises and center combinations. Students will present and evaluate classical and contemporary ballet performances and will explore technology and applications to ballet and movement.
PR: Audition  SEM: 2 CR: 1

Dance I-IV, Contemporary Dance I-IV (9-12) – OFFERED AT BRENNAN HS ONLY
This course will develop the students’ ability to recognize major modern/contemporary dance works, styles, and dance artists in history. Students will execute modern/contemporary dance technique, use modern/contemporary vocabulary, and perform memorized movement exercises, combinations, and created movement sequences or studies. Students will apply modern/contemporary dance etiquette and dance safety and will explore technology applications for modern/contemporary dance movement.
PR: Audition  SEM: 2 CR: 1

Music I-IV, (Prep) Band I-IV (9-12, Beginners/Novice)
This course is designed for students who may wish to learn to play a band instrument or students who are in the early stages of instrumental music development. Basic playing fundamentals of tone, rhythm, counting, and technique are emphasized. Membership is gained through middle school director’s recommendation OR telephone contact with high school band director. Students DO NOT need to have taken any accredited music classes prior to enrollment in this course. Students completing this course are eligible for the more advanced concert bands and marching band.
PR: Telephone contact/Student Audition/Rubric  SEM: 2 CR: 1

Music I-IV, (Concert) Band I-IV (9-12)
This course is designed for students who desire to develop more accomplished performance skills on their music instrument. Increased exposure to music notation, technical and expressive skills, and diverse genres of music are part of the curriculum. Students engage in study that advances their performance skills to enable mastery of advanced music literature. Students have opportunity to study marching techniques, solo/ensemble literature, and are eligible to audition for Texas All-State. Members of this band actively participate in UIL assessments, community concerts, pep rallies, and during the fall semester only, in football game halftime. Large scholarship opportunities are available for students enrolled in this course. Maximum of 4 hrs/week are required outside the school day. Middle school director recommendation and high school audッション/audition/rubric are required for course placement.
PR: Student Audition/Rubric  SEM: 2 CR: 1

Music I-IV, (Symphonic) Band I-IV (9-12)
This course is designed for students who desire to develop mastery level skills in music performance. Students will develop advanced techniques needed for performing very difficult and diverse genres of music. Students will have opportunity to perform extensively in solo, small group, and large band settings. Students will study marching techniques, solo/ensemble literature, and are eligible for Texas All-State. Members of this band actively participate in UIL assessments, community concerts, pep rallies, and during the fall semester only, in football game halftime. Large scholarship opportunities are available for students enrolled in this course. Maximum of 4 hrs/week are required outside the school day. Middle school recommendation and high school audition/ rubric are required for course placement.
PR: Student Audition/Rubric  SEM: 2 CR: 1

Music I-IV, Jazz Band IV (9-12)
Jazz ensemble is an enrichment course for students that want to learn the history of jazz in America, learn to improvise, and perform jazz literature in local and state venues. Jazz ensemble students, with the exception of rhythm section and vocalists, must be concurrently enrolled in prep, concert, or symphonic band. The course is highly performance-based. Students are eligible to audition for All-State Jazz. Large scholarship opportunities are available.
PR: Concurrent enrollment in band/Student Audition/Rubric  SEM: 2 CR: 1

Music I-IV, Instrumental Ensemble I-V (9-12)
 FOR BEGINNERS AND ADVANCED STUDENTS; Instrumental ensemble is designed for students that desire to develop personal audition portfolios for college or want to learn how to play an instrument for the first time. Course of study is 1- to 1-based, with a private lesson approach to instruction. Students prepare literature for recitals and college auditions OR develop skills needed to appreciate, understand, and eventually master a music instrument.
PR: Student Audition/Rubric  SEM: 2 CR: 1

Orchestra

Music I-IV, Orchestra I-IV (9-12)
These courses are designed for violin, viola, cello, and bass students interested in developing individual skills in music performance. Instruction includes a curriculum that allows for improved technical and lyrical skills that expand a student’s understanding of the orchestra literature. Students in this class actively participate in UIL assessments, solo/ensemble contest, multiple community concerts, and diverse solo recital performances. Large scholarship opportunities are available. Wind and percussion instruments are merged with this class to provide a full orchestra experience for participants.
PR: Student Audition/Rubric  SEM: 2 CR: 1

Theatre Arts

Technical Theatre I (9-12)
Technical Theatre I is a project based class within the theatrical arts curriculum at the high school level focusing on the design process, construction and implementation of the various technical aspects of a production. Students learn lighting basics, audio design, effective make-up application, construction techniques, as well as costume design and construction. Students desiring to excel in skills related to technical theatre are welcome to participate in activities occurring outside the academic school day. No prior theatre experience is required to be eligible for this course.
PR: None  SEM: 2 CR: 1

Technical Theatre II - IV (10-12)
These courses are a continuation of Technical Theatre I in which students assume a leadership role in the design and construction of elements required for theatrical productions such as lighting, sound, scenic elements, properties, and costumes. These courses may require a commitment of time outside the academic school day.
PR: Teacher Approval & Previous Technical Theatre Arts class  SEM: 2 CR: 1

Theatre I-IV, Theatre Arts I (9-12)
Theater Arts I is offered to students who have had no drama training and who want to learn theatrical skills and performance courses with emphasis on pantomime, stage movement, oral interpretation, physical theatre knowledge, acting and theater heritage. Theater Arts I is a survey course where students will study the cultural contribution of theater, its structure, the play, and its performance.
PR: None  SEM: 2 CR: 1

Theatre II, Theatre Arts II (10-12)
Theater Arts II is offered to students who want to further their theatrical skills through work in acting, directing, and theater heritage. Production styles and performances are discussed and the basic principles of performance are analyzed extensively. The objective is to stimulate creativity, student poise, confidence, and independence. Basic principles of production are studied and applied through performances in various theatrical applications. Production work required. Enrollment in the course constitutes agreement to fulfill all curricular, co-curricular, and extracurricular requirements.
PR: Theatre Arts I  SEM: 2 CR: 1

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Air Force Science 3 (10-12)
(AS-300) Exploring Space: The High Frontier: The third year examines information on space science and exploration. The course begins with the study of space environment from the earliest days of astronomy and the heavens through the Renaissance and modern astronomy. It provides study into our earth, the moon and the solar system, the terrestrial and outer space planets.
(PR-300) Life Skills and Career Opportunities: Leadership studies emphasize topics on college, vocational and technical admission. There is information on job seeking skills, finance management and practices in holding key positions in the cadet corps.
(PR-300) Aerospace Science 1 and 2
(SEM: 2 CR: 1)

Air Force Science 4 (12)
(AS-400) Management of the Cadet Corps: The students manage the AFJROTC program during their fourth year. This hands-on experience affords the students the opportunity to put the theories of previous leadership courses into practice. All planning, organizing, coordination, directing, controlling and decision making is done by the students. Students practice their communication, personal interaction, managerial and organizational skills.
(PR-400) Principles of Management: The leadership course provides a history and the importance of management. Techniques and skills involved in planning, decision making, managing change, stress and innovation are presented. These subjects will equip students with the qualities needed to serve in leadership positions within AFJROTC.
(PR-300) Aerospace Science 1, 2, and 3
(SEM: 2 CR: 1)

(AS-410) Survival: The ROTC survival course introduces students to basic survival techniques, personal protection, shelter construction, first aid, food identification, orientation and traveling.
(PR-300) Aviation Honors Ground School Program: This advance course is a more in-depth study of previous aerospace topics. The student is provided a foundation for receiving a private pilot's license. The course contains complete and concise explanations of the fundamental concepts and ideas that every private pilot needs to know. Completion of the course should prepare students to take and pass the Federal Aviation Administration (FAA) written examination.
(LE-500) Drill and Ceremonies: Introduction to this course provides basic elements of military drill. Individual and group precision drill environments, procedures for saluting, ceremonies, reviews, parades and command voice are instructed. Students are provided detailed instruction on ceremonial performances and protocol for civilian and military events.
(PR-300) Science of Flight
(SEM: 2 CR: 1)

Naval Science 3 (11-12)
Naval Science 3 is all about leadership development. These are the cadets who will be running our Corps the next year. Cadets are placed in leadership roles and are given the opportunity to "be in charge." They are expected to take the initiative, lead by example, and demonstrate they are ready to accept additional responsibility. Physical fitness and military drill is also emphasized. The college admission process and the importance of continuing education after high school are stressed.
(PR-300) Exploration: The Navy Branch
(SEM: 2 CR: 1)

Digital Design & Media Production (9-12)
Students will demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others as well as independently. Students will gather information electronically, which will allow for problem solving and making informed decisions regarding media projects. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. They will demonstrate a thorough understanding of digital design principles that is transferable to other disciplines. The technology applications curriculum has six strands based on National Educational Technology Standards for Students and performance indicators developed by the International Society for Technology in Education: creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision-making; digital citizenship; and technology operations and concepts.
(SEM: 2 CR: 1)

Digital Video & Audio Design (11-12)
Students will create video products for a variety of purposes and audiences. A variety of development tools and compression techniques will be used. Topics of study include: composition, lighting, audio, camera techniques, storyboarding, script writing, production, contracting, and scheduling, linear and non-linear editing, control and time coded tracks, transitions, audio levels, background music, special sound effects, character generators, fonts, colors, and principles of composition to create graphic images. The technology applications curriculum has six strands based on National Educational Technology Standards for Students and performance indicators developed by the International Society for Technology in Education: creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision-making; digital citizenship; and technology operations and concepts.
(SEM: 2 CR: 1)
Web Design (9-12)

Students will create interactive Web sites for authentic customers, using specific authoring tools and established design principles. A variety of Web development tools will be used. Topics of study include: the structure and functionality of WWW sites, design elements, graphics and animation, HTML, WYSIWYG editors, and JavaScript. The technology applications curriculum has six strands based on National Educational Technology Standards for Students and performance indicators developed by the International Society for Technology in Education: creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision making; digital citizenship; and technology operations and concepts. SEM: 2 CR: 1

Digital Art & Animation (9-12)

Students will create graphics, animation, lettering, and other digital images for use in products such as web design, videos, and diverse forms of electronic & print media. A variety of development tools will be used. Topics of study include graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, and the magazine, television, film, and game industries. The technology applications curriculum has six strands based on National Educational Technology Standards for Students and performance indicators developed by the International Society for Technology in Education: creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision making; digital citizenship; and technology operations and concepts. This course satisfies fine arts graduation requirement. SEM: 2 CR: 1

Web Design Online (10-12)

This two-semester Technology Applications course is 100% online. The online course contains the same content as the traditional Web Design course, but students will access the course from a computer at home outside of the regular school day. Generally, a student will devote a minimum of five hours per week on coursework. Student qualities for success in this online course include: strong reading and writing skills, ability to make decisions and solve problems creatively, responsible and self-directed, possess honesty and integrity, excel at time management and possess exemplary organizational skills. The technology applications curriculum has six strands based on National Educational Technology Standards for Students and performance indicators developed by the International Society for Technology in Education: creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision making; digital citizenship; and technology operations and concepts. SEM: 2 CR: 1

Fundamentals of Computer Science Pre AP (9-12)

Introduces Computer Science course, introduces students to programming concepts through object oriented programming, data analysis, computational artifacts, and html. The technology applications curriculum has six strands based on National Education Technology Standards: Creativity and Innovation, Communication and Collaboration, Research & Information Fluency, Critical Thinking, Problem Solving & Decision Making, Digital Citizenship, and Technology Operations & Concepts. PR: None SEM:2 CR: 1

Computer Science 1 PreAP (9-12)

Basic computer programming course allowing students the opportunity to design, implement, and present meaningful programs through a variety of media. Students will use data analysis to assess, analyze, and evaluate information needed to solve problems. Students will create display interfaces, develop, test, and debug programs. PR: Algebra 1 SEM: 2 CR: 1

Computer Science 2 AP (10-12)

College credit course-Northwest Vista College

Extends student knowledge from CS1, by presenting additional opportunities to utilize data analysis to create computer interfaces, using algorithms, multiclass programs, class hierarchy, in various interfaces. Students will have opportunity to earn college credit through Advanced Placement exam administered by College Board, or AP Credit (Seniors/Seniors) through agreement with NW Vista for COSC 1337 PR: Algebra 1 AND SEM: 2 CR: 1

CS2 H/DC (11-12)

This course extends student knowledge from the previous years of study. Students produce independent projects through in depth study of selected topics based on Computer Science coursework, student interest, hardware and software resources. (Pending Northwest Vista Approval) PR: Computer Science 2 SEM: 2 CR: 1

Special Education Employability Continuum

Career Investigations A/B (9-11)

Career Investigations A/B courses are locally-developed courses offered for local credit to students receiving special education services. Topics focus on job skills, training skills, social skills needed for employability and independent living. This course could include a Student-Run Business in a Work Center. The course provides an introduction to the world of work in order to facilitate successful transition planning.

Career Preparation (10-12)

Career Preparation is a locally-developed course offered for local credit to students receiving special education services with a focus on applying employment-related skills in training activities. Topics include productive work habits and attitudes, process of career planning and employment, and the effects of change in the work place. The educational setting for this course is the classroom, the campus community and/or training sites in the community. The course is designed to prepare students for competitive employment and independent living.

Personal Marketing Co-op (11-12)

Personal Marketing Co-op is a locally-developed course offered for local credit to students receiving special education services. Classroom-based instruction focuses on developing personal management skills related to obtaining and maintaining competitive employment, independent living, personal money management, and transitioning from school to work. Work-site performance is monitored by school staff. The course is designed to hone skills of students for competitive employment and independent living.

Career & Technology Education Courses

Agriculture Science

Sandra Day O’Connor

• Agricultural Business
• Animal Science
• Agriculture Mechanics
• Horticulture

Principles of Agriculture, Food, & Natural Resources (9-10)

Students develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations in agriculture, food, and natural resources. PR: None SEM: 2 CR: 1

Professional Standards in Agriculture (9-12)

Students will develop skills in leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness. Students will investigate agricultural career opportunities, entry requirements, and industry expectations.

PR: Principles of Agriculture, Food, & Natural Resources SEM: 1 CR: 1/2

Wildlife, Fisheries, and Ecology Management (10-12)

This course examines the management of game and non-game wildlife species, fish, and aquacultures and their ecological needs as related to current agricultural practices.

PR: Principles of Agriculture, Food, & Natural Resources SEM: 2 CR: 1

Agribusiness Management and Marketing (10-12)

This course provides a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness.

PR: Professional Standards in Agribusiness SEM: 2 CR: 1

Advanced Animal Science (12)

This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Students will analyze the nature of science, systems, and models to gather information and make predictions, decisions, and solve problems in animal science.

PR: Coherent sequence in Ag cluster SEM: 2 Science CR: 1

Advanced Plant & Soil Science (12)

Students in Plant and Soil Science will conduct investigations, laboratory practices, and field exercises to develop an understanding of current plant and soil science. Students will be prepared for careers in the food and fiber industry.

PR: Coherent sequence in Ag cluster SEM: 2 Science CR: 1

Pacticum in Agriculture, Food, and Natural Resources (11-12)

This is a capstone experience for students participating in a coherent sequence of the Agriculture, Food, and Natural Resources cluster. Students apply knowledge and skills in real world situations such as employment, independent study, internships, assistantships, mentorships, or laboratories.

PR: Coherent sequence in Ag cluster SEM: 2 CR: 2

Career Preparation Agriculture (Cooperative Training) (11-12)

Students must maintain part-time employment in an approved agriculture training station and attend school at least three hours per day.

PR: Coherent sequence in Ag cluster SEM: 2 CR: 3

Equine Science (10-12)

Focuses on selection, nutrition, reproduction, health, and management of horses. Students will learn about career opportunities, entry requirements, and industry expectations. Suggested animals which may be included in the course include, but are not limited to, horses, donkeys, and mules.

PR: Wildlife, Fisheries, and Ecology Mgt. SEM: 2 CR:1

Livestock Production (10-12)

Introduces veterinary skills and procedures used on livestock, anatomy of livestock, genetics and reproduction, and diseases that can affect all livestock animals. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

PR: Wildlife, Fisheries, and Ecology Mgt. SEM: 2 CR:1

Agricultural Mechanics and Metal Technologies (10-12)

This course focuses on power, structural, and technical agricultural systems. Tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques are studied. Students will investigate career opportunities, entry requirements, industry certifications, and industry expectations.

PR: Principles of Agriculture, Food, & Natural Resources SEM: 2 CR: 1

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Agricultural Facilities Design and Fabrication (11-12)
Prepares students for careers in mechanized agriculture and technical systems, related to agricultural facilities design and fabrication. Students explore career opportunities, entry requirements, and industry expectations.
PR: Agricultural Mechanics and Metal Technologies
SEM: 2 CR: 1

Agricultural Power Systems (10-12)
Students will understand power and control systems as related to energy sources, small and large power systems, and agricultural machinery. Students will learn about career opportunities, entry requirements, industry certifications, and industry expectations.
PR: Agricultural Mechanics and Metal Technologies
SEM: 2 CR: 1

Principles and Elements of Floral Design (9-12)
This course develops students’ ability to identify and demonstrate the principles and techniques related to floral design and develop an understanding of the management of floral enterprises.
PR: Principles of Agriculture, Food, & Natural Resources
SEM: 2 CR: 1

Landscape Design & Turf Management (10-12)
Students will develop an understanding of horticulture systems and landscape and turf grass management techniques and practices. Students will investigate career opportunities, entry requirements, and industry expectations.
PR: Principles of Agriculture, Food, & Natural Resources
SEM: 2 CR: 1

Horticulture Science (10-12)
Students will gain an understanding of common horticultural management practices as they relate to food and ornamental plant production. Students will develop knowledge and skills regarding career opportunities in horticulture, including entry requirements, and industry expectations.
PR: Principles of Agriculture, Food, & Natural Resources
SEM: 2 CR: 1

Architecture And Construction
•Construction Management
•Construction Technology
•Architecture
•Interior Design
Principles of Architecture & Construction (9-10)
An overview of architecture, interior design, construction science, and construction technology. Technical skills introduced include safety, the use of hand tools and power tools, rigging, and reading technical drawings. Students will be expected to develop an understanding of the various educational requirements and career opportunities in this cluster.
PR: None
SEM: 2 CR: 1

Architectural Design (10-12)
A focus on design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes.
PR: Principles of Architecture & Construction
SEM: 2 CR: 1

Advanced Architectural Design (11-12)
Students acquire the advanced knowledge of design, design history, design techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes. Students gain knowledge and skills specific to those needed to prepare for a postsecondary degree or enter into a field of architecture or construction related field.
PR: Architectural Design or Advanced Interior Design
SEM: 2 CR: 2

Practicum in Architectural Design (12)
A course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study. Instruction may be delivered through laboratory training, independent study, or career preparation arrangements.
PR: Advanced Architectural Design
SEM: 2 CR: 2

Construction Management (10-12)
Students use design techniques and tools related to the management of architectural and engineering projects. Students will develop an understanding of the various educational requirements and career opportunities in architecture, construction science, drafting, or engineering.
PR: Principles of Architecture & Construction
SEM: 2 CR: 1

Advanced Construction Management (11-12)
Students use advanced knowledge of design techniques and tools related to the management of architectural and engineering projects. Students gain knowledge and skills needed to enter the work force as carpenters or building maintenance supervisors, or prepare a foundation toward a postsecondary degree.
PR: Construction Management
SEM: 2 CR: 2

Practicum in Construction Management (12)
This course provides classroom technical instruction or on-the-job training experiences. Included are safety, career opportunities, work ethics and job related study in the classroom. Instruction may be delivered through laboratory training or through career preparation delivery arrangements.
PR: Advanced Construction Mgt. or Advanced Construction Technology
SEM: 2 CR: 2

Construction Technology (11-12)
Students introduced to safety, tool usage, building materials, codes and framing. Students will develop an understanding of the various educational requirements and career opportunities in construction management, architecture, or engineering.
PR: Principles of Architecture & Construction
SEM: 2 CR: 1

Advanced Construction Technology (11-12)
In addition to skills learned in Construction Technology, students acquire exterior and interior finish out skills. Students gain advanced knowledge and skills specific to those needed to enter the work force as carpenters, building maintenance technicians, or supervisors or prepare for a postsecondary degree in construction management, architecture, or engineering.
PR: Construction Technology
SEM: 2 CR: 2

Interior Design (10-12)
A technical course that addresses the needs of individuals by enhancing the environments in which they live and work. Students will use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, and compete in industry.
PR: Prin. of Human Services
SEM: 2 CR: 1

Advanced Interior Design (11-12)
A technical laboratory course that includes the knowledge of employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to residential and commercial interior design.
PR: Interior Design
SEM: 2 CR: 1

Practicum in Interior Design (11-12)
This is an occupationally-specific course designed to provide classroom technical instruction. Job-specific skilled training is provided through the use of laboratory training or training plans by local training sponsors in areas compatible with identified career goals in interior design. In addition, students are expected to develop knowledge and skills in housing, furnishings, and equipment construction or housing, furnishings, and equipment management and services.
PR: Advanced Interior Design
SEM: 2 CR: 2

Electrical Technology (10-12)
A course in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.
PR: Construction Technology
SEM: 2 CR: 1

Advanced Electrical Technology (11-12)
Students acquire knowledge and skills in alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation. Students gain advanced knowledge and skills specific to those needed to enter the work force as an electrician, building maintenance technician, or supervisor, or prepare for a postsecondary degree in construction.
PR: Electrical Technology
SEM: 2 CR: 2

HVAC & Refrigeration Technology (10-12)
A course in safety, principles of HVAC theory, tools, codes, and installation of HVAC and refrigeration equipment. Students investigate requirements for employment and related post-secondary education.
PR: Construction Technology
SEM: 2 CR: 1

Advanced HVAC & Refrigeration Technology (11-12)
Course focuses on safety, electrical theory, tools, codes, installation of commercial HVAC equipment, heat pumps, trouble shooting techniques, various duct systems, and maintenance practices. Students gain knowledge and skills specific to those needed to enter the industry as HVAC and refrigeration technicians, building maintenance technicians or supervisors, or prepare for a postsecondary degree.
PR: HVAC & Refrigeration Technology
SEM: 2 CR: 2

Art, A/V Technology, & Communications
•Graphic Design
•Audio Visual Technology
•Fashion Design
•Animation
Principles of Arts, Audio/Video Technology, and Communications (9-10)
Students utilize state-of-the-art computer applications to develop fundamental skills in art, animation, audio/video production, graphic design, photography, and fashion design. Students identify target audiences and media to create projects and presentations utilizing the elements and principles of design, color, the Internet, and computer applications. Students develop an understanding of the various career opportunities in this cluster as well as the knowledge, skills, and educational requirements for those careers.
PR: None
SEM: 1 CR: ½

Animation (11-12)
Careers in animation span all aspects of motion graphics. In addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the history and techniques of the animation industry.
PR: Digital & Interactive Media
SEM: 2 CR: 1

Advanced Animation (11-12)
In addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to create two- and three-dimensional animations.
PR: Animation
SEM: 2 CR: 2

Audio/Video Production (10-12)
Students will develop an understanding of the Arts, Audio/Video Technology, and Communications industry with a focus on pre-production, production, and post-production audio and video activities.
PR: Principles of Arts, A/V Tech., & Communications or Principles of Information Technology
SEM: 2 CR: 1

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Advanced Audio/Video Production (11-12)
Students develop an advanced understanding of the Audio/Video Production industry with a focus on pre-production, production, and post-production activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video.
PR: Audio/Video Production
SEM: 2 CR: 2

Practicum in A/V Production
Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video activities in a studio environment. This course may be implemented in an advanced audio, video, or animation format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.
PR: Advanced A/V Production
SEM: 2 CR: 2

Business Management & Administration

Finance

Marketing

• Business Management & Administration
• Finance
• Marketing, Sales & Service

Principles of Business, Marketing, & Finance (9-10)
Course focuses on economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles.
PR: None
SEM: 2 CR: 1

Business Information Management I (9-12)
Students address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. (HCHS Only)
PR: None
SEM: 2 CR: 1

Business Law (10-12)
Students analyze the social responsibility of business and industry relating the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, business organizations, concept of agency and employment, and real property. Students address business applications of legal issues to make appropriate business decisions.
PR: Principles of Business, Mkt, & Finance
SEM: 1 CR: ½

Global Business (10-12)
Focuses on global business applications of emerging technologies. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs.
PR: Principles of Business, Mkt, & Finance
SEM: 1 CR: ½

Business Management (11-12)
Students analyze the primary functions of management and leadership incorporating social responsibility of business and industry. Students develop a foundation in various aspects of business to become competent managers, employees, and entrepreneurs. Students integrate the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.
PR: Business Law & Global Business
SEM: 2 CR: 1

Problems and Solutions in Business (11-12)
A course in which students develop a project based on a business related topic of their choice, using scientific methods of investigation to conduct in depth research. (BCHS Only)
PR: Coherent sequence in Business
SEM: 2 CR: 1

Money Matters (10-12)
Students investigate global economics with an emphasis on the free enterprise system. Students analyze financial options based on current and projected economic factors and set long-term financial goals, achievable through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning.
PR: Principles of Business, Marketing, and Finance
SEM: 1 CR: ½

Advanced Audio/Video Production (11-12)
Students develop an advanced understanding of the Audio/Video Production industry with a focus on pre-production, production, and post-production activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video.
PR: Audio/Video Production
SEM: 2 CR: 2

Graph Design and Illustration (10-12)
Students will be expected to develop an understanding of the advertising industry with a focus on fundamental elements and principles of design, visual art, graphic design and illustration.
PR: Prin. of Arts, A/V Technology, & Communications or Prin. of Information Technology
SEM: 2 CR: 1

Advanced Graph Design and Illustration (11-12)
Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Students will develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.
PR: Graphic Design and Illustration
SEM: 2 CR: 2

Practicum in Graphic Design & Illustration (11-12)
Students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.
PR: Advanced Graphic Design and Illustration or Commercial Photo
SEM: 2 CR: 2

Commercial Photography (10-12)
Commercial photography skills span all aspects of the industry from setting up a shot to delivering products in a competitive market. Students will be expected to develop an understanding of the industry with a focus on creating quality photographs.
PR: Principles of Information Technology or Prin. of Arts, A/V Technology, & Communications
SEM: 2 CR: 1

Advanced Commercial Photography (11-12)
Students will develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.
PR: Commercial Photography
SEM: 2 CR: 2

Fashion Design (10-12)
This laboratory course focuses on careers in the fashion and textile/apparel industries. Students will be exposed to the apparel production process from design concept to finished product. Course content includes apparel construction, care, and maintenance.
PR: Principles of Human Services
SEM: 2 CR: 1

Advanced Fashion Design (11-12)
This advanced laboratory course focuses on careers in the fashion and textile/apparel industries. Students will be expected to develop an advanced understanding of fashion, with an emphasis on design and production.
PR: Fashion Design
SEM: 2 CR: 2

Banking and Financial Services (10-12)
Students develop knowledge and skills in all aspects of banking to become competent consumers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the operations, sales, and management of banking institutions to gain a complete understanding of how banks function within society.
PR: Principles of Business, Marketing, and Finance
SEM: 1 CR: ½

Accounting I (10-12)
Students utilize knowledge to engage in the process of recording, classifying, summarizing, and communicating accounting information based on various accounting industry standards. Students formulate and interpret financial information for use in management decision making.
PR: Principles of Business, Marketing, and Finance
SEM: 2 CR: 1

Accounting II (11-12)
Provides further development of accounting principles with extensive use of technology; incorporates complete accounting cycle in relation to formation and dissolution of partnerships, characteristics of corporate organization and ownership; provides experience in initiating and maintaining an accounting system and in analyzing, interpreting and synthesizing managerial problems using accounting information. Designed for students interested in continuing at the post-secondary level or entering the workforce.
PR: Accounting I
SEM: 2 CR: 1

Entrepreneurship (11-12)
Course focuses on analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. Students will learn the knowledge and principles necessary to become an entrepreneur and begin and operate a business.
PR: Retailing and E-tailing & Sports and Entertainment Marketing
SEM: 2 CR: 1

Retailing and E-tailing (10-12)
Students will develop skills using the electronic media techniques necessary for a business to compete in a global economy. Students will coordinate online and offline marketing. Students will demonstrate critical-thinking skills using decision-making models, case studies, various technologies, and business scenarios.
PR: Principles of Business, Marketing, and Finance
SEM: 1 CR: ½

Sports and Entertainment Marketing (9-12)
Focuses on basic sports marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment marketing plans. Students will develop promotional plans, sponsorship proposals, endorsement contracts, sports and entertainment marketing plans, and evaluation and management techniques.
PR: Principles of Business, Marketing, and Finance
SEM: 1 CR: ½

Business & Marketing Career Preparation (11-12)
Students spend one hour in class each day and a minimum of 15 hours on the job each week. Some of the areas of employment include: banking, office administration, retailing.
PR: Completed Application required
SEM: 2 CR: 3
Information Technology

• Information Technology
• Graphic Design
• Audio Visual Technology
• Computer Technician
• Computer Programming

Principles of Information Technology (9-10) Principles of Information Technology Dual (11-12) College credit course—Northwest Vista College

Students use emerging technologies, demonstrate ethical use of the Internet and explain issues concerning Internet security protocols. Students identify computer hardware components and demonstrate an understanding of file extensions. Students produce and format various documents with both text and graphics, input formulas and utilize preprogrammed functions in documents and tables. Students apply design and web publishing techniques.

PR: None SEM: 2 CR: 1

Computer Maintenance (10-12)

Students acquire knowledge of the principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad level components related to the installation, diagnosis, service, and repair of computer systems.

PR: Principles of Information Technology or Electronics

SEM: 2 CR: 2

Computer Technician (11-12)

Focuses on computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technologies. The course may be conducted either in a classroom setting with an instructor, with an industry mentor, or both.

PR: Computer Maintenance

SEM: 2 CR: 2

Computer Programming (10-12)

Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students apply technical skills to address business applications of emerging technologies.

PR: Principles of Information Technology

SEM: 2 CR: 1

Digital and Interactive Media (10-12)

Through the study of digital and interactive media and its application in information technology, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve problems.

PR: Principles of Information Technology or Prim. of Arts, A/V Technology, & Communications

SEM: 2 CR: 1

Research in Information Technology Solutions Dual (ITSA Yr. 1) (11)

Research in Information Technology Solutions II Dual (ITSA Yr. 2) (12) (College credit courses—St. Philip's Southwest Campus)

Information Technology and Security Academy is a two-year technical dual credit program for high school juniors and seniors. Students receive specialized instruction and training from college professors in Information Technology, Operating Systems, Networking, Information Security, and Computer Programming. In addition, students are eligible to participate in the summer internship program.

PR: Application and acceptance into ITSA

SEM: 2 CR: 3 each year

Internetworking Technologies CISCO I (10-12) Internetworking Technologies CISCO II (10-12)

A program that prepares students to take the Cisco Certified Network Administrator Certification Test. This certification will provide students with entry level positions in the Information Technology Industry. The course covers electricity/electronics, computer systems, data communications, trouble-shooting devices, and career opportunities. (BCHS only)

PR: Concepts of Engineering Technology

SEM: 2 CR: 1 each year

Education & Training

Human Services

Hospitality & Tourism

• Human Services
• Cosmetology
• Culinary Arts
• Hospitality & Tourism
• Education & Training

Principles of Human Services (9-10)

Students assess the relationship between health and wellness and personal and professional achievement. Students evaluate the effects of crises, stress, and domestic violence on individuals and the family and recognize appropriate responses and management strategies. Students identify the basic needs of children as well as caregiver guidelines that promote safe and healthy child development. Students create meals according to dietary guidelines. Students create written and electronic records of client services for cosmetology, fashion design, and interior design.

PR: None SEM: 2 CR: 1

Interpersonal Studies (10-12)

Examines how the relationships between individuals and among family members significantly affect the quality of life. Students learn to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

PR: Principles of Human Services

SEM: 1 CR: ½

Lifetime Nutrition and Wellness (10-12)

Students use principles of lifetime wellness and nutrition to make informed choices that promote wellness and to pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

PR: Principles of Human Services

SEM: 1 CR: ½

Child Development (10-12)

This course addresses child growth and development from prenatal through school-age children. Students use skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

PR: Principles of Human Services

SEM: 1 CR: ½

Child Guidance (11-12)

This course addresses child growth and guidance. Students are equipped to develop positive relationships with children and effective caregiver skills in order to promote the well-being and healthy development of children and pursue careers related to the care, guidance, and education of children.

PR: Child Development and Interpersonal Studies

SEM: 2 CR: 2

Cosmetology I (10-12)

A laboratory 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 requirements for licensure upon passing the state examination.

PR: Principles of Human Services

SEM: 2 CR: 3

Cosmetology II (11-12)

This course provides advanced training for employment in cosmetology careers. Instruction includes advanced training in sterilization and sanitation processes, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination.

PR: Cosmetology I

SEM: 2 CR: 3

Instructional Practices in Education & Training (11-12)

The first year of an internship providing students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students plan and direct instruction and activities under the direction of both a teacher with knowledge of early childhood education and educators in direct instruction roles with elementary and middle school-aged students.

PR: Child Development and Interpersonal Studies

SEM: 2 CR: 2

PRACTICUM IN EDUCATION & TRAINING (12)

The second year of an internship providing advanced knowledge of child and adolescent development as well as effective teaching and training practices. Students work with elementary and middle school-aged students. Students plan and direct instruction and activities, develop and prepare instructional materials, assist with record keeping, and complete other responsibilities of educational professionals and personnel.


SEM: 2 CR: 2

Hotel Management (10-12)

This course emphasizes the knowledge and skills needed to pursue staff and management positions available in the hotel industry. This course will focus on professional communication, leadership, management, human resources, technology, and accounting.

PR: Principles of Human Services

SEM: 1 CR: ½

Restaurant Management (10-12)

This course emphasizes the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant.

PR: Principles of Human Services

SEM: 1 CR: ½

Travel and Tourism Management (10-12)

This course incorporates management principles and procedures of the travel and tourism industry including destination geography, airlines, international travel, cruising, travel by rail, lodging, recreation, amusements, attractions, and resorts. Employment qualifications and opportunities are included in this course.

PR: Principles of Human Services

SEM: 1 CR: ½

Culinary Arts (11-12)

Teaches the fundamentals and principles of the art of cooking, the science of baking, and management and production skills and techniques. Students can pursue appropriate industry certifications. This course may be offered as a laboratory-based or internship course.

PR: Lifetime, Nutrition and Wellness & Rest. Mgt.

SEM: 2 CR: 2
Practicum in Culinary Arts (11-12)

Students learn employability skills, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Instruction may be delivered through school-based laboratory training or through work-based arrangements.

PR: None
SEM: 2 CR: 1

Hospitality Services (11-12)

Provides students with hands-on and project-based preparation to pursue careers in hospitality related industries. Students are prepared for nationally recognized industry certifications, post-secondary education, and entry-level careers. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing.

PR: Travel and Tourism & Hotel Mgt.
SEM: 2 CR: 2

Practicum in Hospitality Services (11-12)

Combines classroom instruction with actual business and industry career experiences. Students are taught employability skills, job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Students are effectively prepared for college and career success.

PR: Hospitality Services
SEM: 2 CR: 2

Food Science (11-12)

A study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. Students conduct laboratory and field investigations using scientific methods.

PR: Culinary Arts
SEM: 2 Science CR: 1

FCS Career Preparation (11-12)

Students spend one hour in class each day and a minimum of 15 hours on the job each week. Some of the areas of employment include: clothing and home furnishings, child care, food service, hotel and hospitality services.

PR: Completed Application required
SEM: 2 CR: 3

HEALTH SCIENCE

Principles of Health Science (10-12)

This course provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. Students will identify employment opportunities, technology, and safety requirements of each system.

PR: Medical Terminology
SEM: 2 CR: 1

Medical Terminology (9)

Medical Terminology Dual (11-12) (College credit course-Northwest Vista College)

This course introduces students to the structure of medical terms, medical abbreviations and acronyms. Students will achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

PR: None
SEM: 1 CR: 1½

Health Science (11-12)

Course designed to develop health care specific knowledge and skills related to a variety of health careers. Students will have hands-on experiences by methods such as clinical rotation and career preparation learning.

PR: Principles of Health Science
SEM: 2 CR: 2

Anatomy and Physiology (11-12)

Students study the structure and function of the human body and the interaction of body systems for maintaining homeostasis. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving.

PR: 3 credits of Science
SEM: 1 Science CR: ½

Medical Microbiology (11-12)

Students explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

PR: 3 credits of Science
SEM: 1 Science CR: ½

Pathophysiology (11-12)

Focuses on disease processes and how they affect humans, as well as prevention and treatment of disease. Students will differentiate between normal and abnormal physiology. Students will conduct laboratory and field investigations using scientific methods, critical thinking and scientific problem solving.

PR: 3 credits of Science
SEM: 1 Science CR: ½

Practicum in Health Science (12)

A course designed to give students practical application of previously studied knowledge and skills for certification or licensure in an allied health career. Students develop advanced clinical skills necessary for employment in the health care industry or continued education in health careers.

PR: Health Science
SEM: 2 CR: 2

Problems and Solutions in Pharmacology (HCCHS Only) (12)

Students will study the classifications of drugs, drug actions, uses, and adverse reactions. In addition, they will study drugs in relation to treatment, care and restoration of health.

PR: Coherent sequence in Health Science
SEM: 2 CR: 1

Problems & Solutions in Pharmacology Dual (11-12) (College credit course-Northwest Vista College)

PR: None
SEM: 1 CR: 1

Health Science Career Preparation (11-12)

Students spend one hour in class each day and a minimum of 15 hours on the job each week. Students are employed in a health related field.

PR: Completed Application required
SEM: 2 CR: 3

MANUFACTURING

Principles of Manufacturing (9-10)

Students manage and market a manufacturing project. Students will create engineering drawings, use precision measuring instruments, manufacturing equipment, machines, and materials to improve an existing design or manufacture original products. Students comply with quality control standards. Students experiment with new technologies and report on innovative applications of engineering technology.

PR: None
SEM: 2 CR: 1

Career & Technology Education Student Certifications

- Automotive Service Excellence (ASE)
- Certified Nursing Assistant
- Pharmacy Technician
- CPR/AED
- ServSafe
- Sterile Processing & Distribution Technician
- Computer Maintenance
- Cisco Certified Network Associate (CCNA)
- Microsoft Office Specialist (MOS)
- Registered Dental Assistant (RDA)
- Adobe Certified Associate (ACA)
- OSHA
- National Center for Construction Education and Research (NCCE)
- Electronic Technician
- Engineering
- Cosmetology
- CompTIA A+
- Cosmetology
- Advanced Precision Metal Manufacturing Dual (ATMA Yr. 1) (11-12) (College credit course-St. Philip’s Southwest Campus)

Advanced Technology & Manufacturing Academy students work with a variety of manufacturing materials such as metals, plastics, ceramics, and wood. Provides the knowledge, skills, and technologies required for employment in a globally competitive manufacturing environment. Students earn college credit for the manufacturing technology courses taught by the community college.

PR: Application and acceptance into ATMA
SEM: 2 CR: 3

Flexible Manufacturing (10-12)

Flexible Manufacturing provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and manufacturing problems.

PR: Principles of Manufacturing
SEM: 2 CR: 1

Advanced Flexible Manufacturing (11-12)

Advanced Flexible Manufacturing builds on knowledge and skills developed in Flexible Manufacturing. Students will develop advanced concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills.

PR: Flexible Manufacturing
SEM: 2 CR: 2

Manufacturing Engineering Dual (ATMA Yr. 2) (11-12) (College credit course-St. Philip’s Southwest Campus)

Advanced Technology & Manufacturing Academy students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems in manufacturing. Knowledge and skills in the proper application of manufacturing engineering, the design of technology, efficient manufacturing technology, and the assessment of the effects of production technology prepare students for success. Students earn college credit for the manufacturing technology courses taught by the community college.

PR: ATMA Year 1
SEM: 2 CR: 3

Practicum in Manufacturing (12)

The practicum 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.

PR: Advanced Flexible Manufacturing
SEM: 2 CR: 2

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

- Electronics
- Engineering

Concepts of Engineering and Technology (9-10)

This course provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Working on design teams, students will use multiple computer hardware and software applications to conduct research, design and create projects, and present ideas related to biotechnology, electronics, robotics, and automation. Students will use appropriate tools and demonstrate safe work habits.

PR: None
SEM: 2 CR: 1
Engineering Design and Presentation (10-12)
Students will use multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes of engineering designs. Students will implement the design process to transfer advanced academic skills to component designs. Students explore entry level requirements and career opportunities in engineering, technology, and drafting.
PR: Concepts of Engineering and Technology SEM: 2 CR: 1

Advanced Engineering Design and Presentation (11-12)
This course will provide students the opportunity to master computer software applications in a variety of engineering and technical fields. This course further develops the process of engineering thought and application of the design process.
PR: Engineering Design and Presentation SEM: 2 CR: 2

Electronics (10-12)
Students demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation. Students use a variety of computer hardware and software applications to complete assignments and projects.
PR: Concepts of Engineering and Technology SEM: 2 CR: 1

Practicum in Science, Technology, Engineering & Mathematics
The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the science, technology, engineering, and mathematics career cluster.
PR: Robotics & Automation or Advanced Engineering Design & Presentation SEM: 2 CR: 2

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

• Automotive
• Collision
• Alamo Area Academies

Energy, Power, and Transportation Systems (9-12)
Students will understand the interaction between various vehicle systems, the logistics used to move goods and services to consumers, and the components of transportation infrastructure. Students will understand technologies used to provide products and services in a timely manner and be able to meet the expectations of industry employers.
PR: None SEM: 2 CR: 1

Automotive Technology (10-12)
Students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. The focus of this course is to teach the theory of operation of automotive vehicle systems and associated repair practices.
PR: Energy, Power & Transportation SEM: 2 CR: 1

Advanced Automotive Technology (11-12)
A continued study in the repair, maintenance, and diagnosis of vehicle systems. Students acquire advanced knowledge in the theory of operation of automotive vehicle systems and associated repair practices.
PR: Automotive Technology SEM: 2 CR: 2

Collision Repair and Refinishing (10-12)
Collision repair and refinishing services include the knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles.
PR: Energy, Power & Transportation SEM: 2 CR: 2

Advanced Collision Repair & Refinishing (10-12)
This course focuses on the application of advanced technical skills and practices related to collision repair and refinishing. Provides training for entry level employment in the collision repair and refinishing industry.
PR: Collision Repair and Refinishing SEM: 2 CR: 2

Practicum in Transportation, Distribution, and Logistics (12)
Course designed to give students supervised practical application of knowledge and skills in transportation, distribution, or logistics related field. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories.
PR: Advanced Automotive Technology or Advanced Collision Repair & Refinishing SEM: 2 CR: 2

Advanced Aircraft Technology Dual (11-12)
An Alamo Area Aviation Academy course designed to apply the theory of operation, repair, and maintenance of aircraft airframe, power plant, and avionics systems. Aircraft services include knowledge of the function, diagnosis, and service of the electrical, electronic, and hydraulic, pneumatic, airframe, mechanical, and power plant components of aircraft as governed by federal aviation regulations. Students in their second year of the Alamo Area Aviation Academy will select a specific track in either aircraft infrastructure or turbine technology. The students continue progress toward FAA Certification.
PR: AAA Year 1 SEM: 2 CR: 3

LAW ENFORCEMENT AND FIRE SCIENCE

• Fire Science
• Law Enforcement

Principles of Law, Public Safety, Corrections, and Security (9-10)
Introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.
PR: None SEM: 2 CR: 1

Principles of Law, Public Safety, Corrections, & Security Dual (11-12)
(College credit course - Northwest Vista College)
PR: None SEM: 1 CR: 1

Law Enforcement I (10-12)
An overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.
PR: Prin. of Law, Public Safety, Corr, & Security SEM: 2 CR: 1

Law Enforcement II (11-12)
Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.
PR: Law Enforcement I SEM: 2 CR: 1

Forensic Science (11-12)
Students learn terminology and investigative procedures related to crime scene questioning and interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Students will use scientific methods such as fingerprint analysis, ballistics, and blood spatter analysis to collect and analyze evidence.
PR: Law Enforcement II SEM: 2 CR: 1

Firefighter I (10-12)
Firefighter I introduces students to firefighter safety and development. Students will analyze Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protections equipment, and the principles of fire safety.
PR: Prin. of Law, Public Safety, Corr, & Security SEM: 2 CR: 2

Firefighter II (11-12)
Firefighter II is the second in a series for students studying firefighter safety and development. Students will understand Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protections equipment, and the principles of fire safety. Students will apply standard procedures for use of fire extinguishers, ladder, fire hose, and water supply apparatus.
PR: Firefighter I SEM: 2 CR: 2

Court Systems and Practices (11-12)
Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.
PR: Law Enforcement II SEM: 2 CR: 2

Credit Recovery/Advancement Opportunities
There are several options for students to recover credits due to failure or to advance in credits.
Northside ISD offers the following:
• Summer School
• Correspondence courses
• Credit by Exam
• Credit Retrieval
• Online courses

For more information and to plan your credit recovery or advancement, speak to your high school counselor.