Please be advised that this Course Catalog is contingent on future decisions of the Texas Education Agency, State Board of Education, Texas Legislature and/or Northside Independent School District. 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.
### NISD Graduation Programs

**NISD Foundation Graduation Program**

#### English
- English I .......................... 1 credit
- English II .......................... 1 credit
- English III ........................ 1 credit
- Advanced English Course .... 1 credit

#### Mathematics
- Algebra I ............................ 1 credit
- Geometry ........................... 1 credit
- Advanced Mathematics Course 1 credit

#### Science
- Biology .............................. 1 credit
- IPC or Adv. Physical Science Course 1 credit
- Advanced Science Course .... 1 credit

#### Social Studies
- World Geography or World History 1 credit
- U.S. History ......................... 1 credit
- Economics .......................... 1/2 credit
- United States Government .... 1/2 credit

#### Languages Other than English (LOTE) 2 credits

#### Physical Education .......................... 1 credit

#### Fine Arts ................................. 1 credit

#### Health (Local requirement) ........ 1/2 credit

#### Communication Applications 1/2 credit

#### Electives ................................. 6 credits

**Total Credits: 22 credits**

### NISD Foundation Graduation Program with an Endorsement

#### English
- English I .......................... 1 credit
- English II .......................... 1 credit
- English III ........................ 1 credit
- Advanced English Course .... 1 credit

#### Mathematics
- Algebra I ............................ 1 credit
- *Algebra II or other Adv. Math Course* 1 credit
- Geometry ........................... 1 credit
- Advanced Mathematics Course 1 credit

#### Science
- Biology .............................. 1 credit
- IPC or Adv. Physical Science Course 1 credit
- Advanced Science Course .... 1 credit

#### Social Studies
- World Geography or World History 1 credit
- U.S. History ......................... 1 credit
- Economics .......................... 1/2 credit
- United States Government .... 1/2 credit

#### Languages Other than English (LOTE) 2 credits

#### Physical Education .......................... 1 credit

#### Fine Arts ................................. 1 credit

#### Health (Local requirement) ........ 1/2 credit

#### Communication Applications 1/2 credit

#### Electives ................................. 6 credits

**Total Credits: 26 credits**

* Algebra II is required to earn a distinguished level of achievement.

**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 or dual credit.**

**Students must be enrolled in appropriate core courses (ELA, Math, Science, & Social Studies) necessary to pass the End of Course Exams.**

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.
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 and support services.

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:

<table>
<thead>
<tr>
<th>English Language Arts</th>
<th>Social Studies</th>
<th>Science</th>
<th>International Languages</th>
</tr>
</thead>
<tbody>
<tr>
<td>* English Lang. &amp; Comp.</td>
<td>* U.S. Government and Politics</td>
<td>* Biology</td>
<td>* French 3</td>
</tr>
<tr>
<td>* English Lit. &amp; Comp.</td>
<td>* Human Geography</td>
<td>* Chemistry</td>
<td>* Spanish 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>International Languages</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Calculus AB</td>
<td>* Advanced Placement</td>
</tr>
<tr>
<td>* Calculus BC</td>
<td>* Euclidean Geometry</td>
</tr>
<tr>
<td>* Statistics</td>
<td>* Algebra II</td>
</tr>
<tr>
<td>* Computer Science A</td>
<td>* Pre-Calculus</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fine Arts</th>
<th>Dual Credit Fine Arts Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Spanish Literature &amp; Culture</td>
<td>* Art Appreciation</td>
</tr>
</tbody>
</table>

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 the TSI. Dual credit courses taken at the high schools are tuition free.

NORTHWEST VISTA COLLEGE
Dual Credit Academic Courses

Students take academic dual credit courses on their high school campus. These courses can vary by individual campuses and may be offered concurrently as Advanced Placement and Dual Credit.

<table>
<thead>
<tr>
<th>English Language Arts</th>
<th>Social Studies</th>
<th>International Languages</th>
</tr>
</thead>
<tbody>
<tr>
<td>* English III</td>
<td>* U.S. History</td>
<td>* Spanish 3</td>
</tr>
<tr>
<td>* English IV</td>
<td>* U.S. Government and Politics</td>
<td>* French 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Pre-Calculus</td>
<td>* Biology</td>
</tr>
<tr>
<td>* AP Calculus AB or BC</td>
<td>* Environmental Science</td>
</tr>
<tr>
<td>* AP Statistics</td>
<td>* Chemistry</td>
</tr>
<tr>
<td>* College Algebra</td>
<td></td>
</tr>
<tr>
<td>* Adv. Quantitative Reasoning</td>
<td></td>
</tr>
</tbody>
</table>

DUAL CREDIT Career & Technology Courses

In the following dual credit courses students attend classes on the college campus. Northside ISD provides college textbooks and bus transportation as needed. Students are required to follow the college campus regulations, including the college calendar.

<table>
<thead>
<tr>
<th>Dual Credit Fine Arts Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Principles of Information Technology</td>
</tr>
<tr>
<td>* Principles of Information Technology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dual Credit Computer Science Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Fundamentals of Computer Science PreAP/DC</td>
</tr>
<tr>
<td>* Computer Science 2 AP/DC</td>
</tr>
<tr>
<td>* Computer Science 3 H/DC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dual Credit Career &amp; Technology Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Introduction to Criminal Justice</td>
</tr>
<tr>
<td>* Medical Terminology</td>
</tr>
</tbody>
</table>

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*—Computer Security—Three hour courses; students attend classes at the St. Philip’s Advanced Technology Center.

*Manufacturing Technology Academy*—Diverse manufacturing—Three hour courses; students attend classes on the St. Philip’s SW Campus
## NORTHSIDE ISD SAMPLE PATHWAY

Cannot Exceed 7 courses Total

<table>
<thead>
<tr>
<th>Total Classes for 4 years – 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th Grade</td>
</tr>
<tr>
<td>i.e. Spanish III Pre-AP/DC</td>
</tr>
<tr>
<td>i.e. Art I Pre-AP/DC</td>
</tr>
<tr>
<td>i.e. Pre-Cal Pre-AP/DC</td>
</tr>
<tr>
<td>i.e. Pre-Cal Pre-AP/DC</td>
</tr>
<tr>
<td>1 Class Fall/Spring</td>
</tr>
<tr>
<td>1 Class Fall/Spring</td>
</tr>
</tbody>
</table>

| 10th Grade                  |
| i.e. Spanish III PreAP/DC   |
| i.e. Pre-Cal Pre-AP/DC       |
| i.e. Art Pre-AP/DC           |
| i.e. Env Sci AP/DC           |
| 1 Class Fall/Spring          |

| 11th Grade                  |
| i.e. English III AP/DC      |
| i.e. Pre-Cal Pre-AP/DC      |
| i.e. US History AP/DC       |
| i.e. Env Sci AP/DC          |
| i.e. Biology AP/DC          |
| 1 Class Fall/Spring         |

| 12th Grade                  |
| i.e. English IV AP/DC       |
| i.e. Biology AP/DC          |
| i.e. Govt AP/DC             |
| i.e. Sociology DC           |
| i.e. Econ AP/DC             |
| i.e. Env Sci AP/DC          |
| i.e. Cal AB/BC/DC           |

## NISD DUAL CREDIT ALIGNMENT

CANNOT EXCEED 7 COURSES TOTAL

<table>
<thead>
<tr>
<th>GRADE</th>
<th>FALL 2017</th>
<th>SPRING 2018</th>
<th>TOTAL COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>9TH   (i.e. Spanish Pre-AP/DC, Pre-Cal Pre-AP/DC, Art I Pre-AP/DC etc.)</td>
<td>0.5</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td>10th</td>
<td>0.5</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>0.5</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td>11th</td>
<td>0.5</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total = 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12th</td>
<td>0.5</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total = 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Courses</td>
<td>3.5</td>
<td>3.5</td>
<td>7</td>
</tr>
</tbody>
</table>

See Counselor for course availability
Advanced Placement

AP/PreAP Course Commitment
Northside ISD recognizes the value of student participation in advanced academic coursework and encourages students to graduate from high school with at least one advanced academic course credit such as Advanced Placement. Participation in advanced academic courses is a foundation of college readiness. Students who participate are more likely to complete a bachelor’s degree in college and typically have higher college GPAs (Hargrove, Godin and Dodd, 2007; Dodd and Keng, 2008). The intent of this commitment is to maximize each student's potential for success in AP and PreAP Courses.

Choosing Advanced Academics
PreAP and AP courses are designed to challenge students beyond grade-level academic courses and prepare them for success in future advanced coursework. Students may require additional encouragement and support from both family and campus to be successful in advanced academics.

Students who opt to participate in AP or PreAP must successfully complete prerequisite coursework and demonstrate mastery on course-related state-mandated performance assessments prior to enrollment in the course.

Campus Commitment
The campus commits to advanced academics by communicating the value of advanced coursework, recruiting students with potential for success, encouraging student commitment, and supporting advanced academics instruction.

Student Commitment
The student commits to advanced academics by recognizing the long term benefits of participation and seeking assistance when needed.

As a student enrolled in an AP or PreAP course:
- I understand that advanced academic courses may seem challenging at first and initial grades may not reflect later grades in the course.
- In the event that I encounter difficulties with the course content, I will conference with my teacher about my progress and attend recommended tutorials.
- I understand that course changes will be contingent on space availability, extenuating circumstances, the teacher’s appraisal of my potential for success in the course, and the timing of the request.
- I understand that successful completion of an AP exam can yield college credit.
- I understand that participation in advanced coursework prepares me well for college, increases my chances of finishing a college degree in four years and earning a higher college GPA.

Parent Commitment
The parent commits to advanced academics by supporting student learning in the advanced academic course; by supporting teacher efforts to provide rigorous, quality instruction; and by valuing the learning that occurs in the advanced academic course. As a parent of a student enrolled in an AP or PreAP course:

- I will encourage my child to be prepared for class every day.
- I understand that advanced academic courses may seem challenging at first and initial grades may not reflect later grades in the course.
- If my child encounters difficulties with the course content, I will expect my child to conference with the teacher and attend recommended tutorials.
- Prior to initiating a petition for my child to exit the course, I will contact the teacher for his/her input.
- I understand that schedule changes will be contingent on space availability, extenuating circumstances, and the teacher's appraisal of my child's potential for success in the course, and the timing of the request.

Teacher Commitment
The teacher commits to advanced academics by encouraging student participation and success, planning for student learning, providing rigorous, quality instructions, and offering assistance for struggling students. As a teacher of an AP or PreAP course:

I will teach the course following the curriculum developed by Northside ISD and as authorized by College Board (AP Courses).
I will provide instruction that prepares students for the next level advanced academic course.
I will provide quality instruction at an advanced level and give ample opportunities for students to be successful.
I will assign work that is meaningful and relevant to the required learning goals.
I know that students are enrolled in many other courses and that workload for this course must not be unreasonably time consuming.
I will provide appropriate tutorial opportunities for students who have difficulty with course content.

PSAT/SAT
College Board assessments — including PSAT™ 8/9, PSAT™ 10, PSAT/NMSQT®, and the SAT — provide benchmarks and consistent feedback for measuring student progress over time, allowing teachers to accelerate students who are either ahead or behind. In addition to measuring readiness, College Board assessments connect students to opportunities, including scholarships, personalized practice, challenging Advanced Placement® course work, and fee waivers.

The redesigned SAT, PSAT/NMSQT, PSAT 10, and the PSAT 8/9 can be used to expand access to AP classrooms and grow AP programs. Both educators and students can see if students’ test scores indicate that they are likely to succeed in specific AP courses. College Board research shows that students who score a 3 or higher on an AP Exam typically experience greater academic success in college and are more likely to earn a college degree on time than non-AP students.
STAAR / END OF COURSE GUIDANCE FOR NISD STUDENTS, PARENTS, COUNSELORS AND TEACHERS

STATE OF TEXAS ASSESSMENTS OF ACADEMIC READINESS

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

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

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.

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.

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/

✓ Education Service Center Region 20

✓ Northside ISD STAAR website
  http://nisd.net/testing-evaluation/about-staar

✓ Campus website

See Counselor for course availability

2017-2018 High School Course Catalog 6
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.
- Principles of Computer Science AP
- 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 A
- 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. New courses may be added.
- AP Biology
- AP Capstone (Year 1-AP Seminar) BRANDEIS ONLY
- AP Capstone (Year 2-AP Research) BRANDEIS ONLY
- AP Chemistry
- AP Environmental Science
- AP Physics 1
- AP Physics 2
- AP Physics C (Mechanics, Electricity and Magnetism)
- Advanced Animal Science
- Advanced Plant & Soil Science
- Advanced Biotechnology
- Anatomy & Physiology
- Aquatic Science
- Astronomy
- Earth & Space Science
- Engineering Design & Problem Solving
- Environmental Systems
- Food Science
- Forensic Science
- 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 above. (STEM Options 1-4)

### 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, Yearbook or Broadcast
- Debate or Public Speaking

### 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.

See Counselor for course availability
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

Agriculture Science

Principles of Agriculture, Food, & Natural Resources (9-10) #8050
Students develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations in agriculture, food, and natural resources.

SEM: 2 CR: 1

Professional Standards in Agribusiness (9-12) #8054
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.

SEM: 1 CR: 1/2

Livestock Production (10-12) #8051
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.

SEM: 2 CR: 1

Professional Communications (10-11) #8164
Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

SEM: 1 CR: 1/2

Equine Science (10-12) #8052
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 of study include, but are not limited to, horses, donkeys, and mules.

SEM: 1 CR: 1/2

Wildlife, Fisheries, and Ecology Management (11-12) #8056
This course examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices.

SEM: 2 CR: 1

Agribusiness Management and Marketing (11-12) #8055
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.

SEM: 2 CR: 1

Veterinary Medical Applications (11-12) #8048
Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

PR: Livestock Production or Equine Science

SEM: 2 CR: 1

Advanced Animal Science (12) #8053
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: Biology & Chemistry or IPC

SEM: 2 CR: 1

Algebra and Geometry

Livestock Production or Equine Science

Practicum in Agriculture, Food, and Natural Resources (12) #8064
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.

SEM: 2 CR: 3

Career Preparation Agriculture (11-12) #8000
Students must maintain part-time employment in an approved agriculture training station and attend school at least three hours per day.

Extended Career Preparation (11-12)
Provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences.

PR: Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a career cluster related to the field in which the student will be employed.

SEM: 2 CR: 3
Agricultural Mechanics and Metal Technologies (10-11) #8061
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. SEM: 2 CR: 1

Floral Design (10-11) #8057
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. SEM: 2 CR: 1

Horticulture Science (10-12) #8059
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. SEM: 2 CR: 1

Greenhouse Operation and Production (11-12) #8049
Students will develop an understanding greenhouse production techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. SEM: 2 CR: 1

Agricultural Equipment Design and Fabrication (11-12) #8042
Students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. Prepares students for careers in mechanized agriculture and technical systems, related to agricultural facilities design and fabrication. SEM: 2 CR: 1

Agricultural Structures Design and Fabrication (12) #8062
Students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. SEM: 2 CR: 1

Advanced Plant & Soil Science (12) #8060
Advanced Plant & Soil Science Dual (12) #8067
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. SEM: 2 Science CR: 1

Practicum in Agriculture, Food, and Natural Resources (12) #8064
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. SEM: 2 CR: 2

Career Preparation Agriculture (11-12) #8000
Students must maintain part-time employment in an approved agriculture training station and attend school at least three hours per day. SEM: 2 CR: 3

Extended Career Preparation (11-12)
Provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. PR: Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a career cluster related to the field in which the student will be employed. SEM: 2 CR: 3
Principles of Business, Marketing, & Finance (9-10) #8206
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.
SEM: 2 CR: 1

Business Information Management I (9-12) #8205
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)
SEM: 2 CR: 1

Business Law (10-12) #8208
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.
SEM: 2 CR: 1

Money Matters (10-12) #8307
Money Matters M (10-12) #8309
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.
SEM: 2 CR: 1

Sports and Entertainment Marketing (10-12) #8655
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.
SEM: 1 CR: ½

Advertising (10-11) #8650
This course is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media.
SEM: 1 CR: 1/2

Accounting I (11-12) #8310
Accounting I M (11-12) #8311
Students utilize knowledge to engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information based on various accounting industry standards. Students formulate and interpret financial information for use in management decision making.
SEM: 2 CR: 1

Business Management (11-12) #8227
Business Management M (11-12) #8228
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.
SEM: 2 CR: 1

Entrepreneurship (11-12) #8652
Entrepreneurship M (11-12) #8653
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.
SEM: 2 CR: 1

Accounting II (12) #8312
Accounting II M (12) #8314
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 Math CR: 1
Business & Industry Endorsement

Information Technology
- Information Technology/Computer Technician/Cyber Security
- Information Technology/Computer Programming

Principles of Information Technology (9-10) #8500
Principles of Information Technology Dual (9-12) #8501
Principles of Information Technology M (9-10) #8502
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.
SEM: 2 CR: 1

Computer Maintenance (10-12) #8507
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.
SEM: 2 CR: 1

Computer Programming I (10-12) #8512
Computer Programming I M (10-12) #8513
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.
SEM: 2 CR: 1

Video Game Design (11-12) #8527
Video Game Design M (11-12) #8528
The student will be provided the opportunity to design, program, and create a functional video game. The course will introduce basic programming language and skills that are essential to developing a video game. Topics covered are math, physics, design, and computer programming.
SEM: 2 CR: 1

Networking (11-12) #8542
Students develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development.
SEM: 2 CR: 1

Computer Programming II (11-12) #8514
Students expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions. Students apply technical skills to address business applications of emerging technologies.
SEM: 2 CR: 1

Computer Technician Practicum (12) #8511
Students will gain knowledge and skills in the area of 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 technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society.
SEM: 2 CR: 2

Networking Dual #8543
Networking Lab Dual (ITSA Yr. 1) (11) (College credit courses-San Antonio College)
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: 2

Practicum in Information Technology Dual #8515
Extended Practicum in Information Technology Dual (ITSA Yr. 2) (12) (College credit courses-San Antonio College)
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
Business & Industry Endorsement

Art, A/V Technology, & Communications

• Graphic Design
• Audio Video Production

Principles of Information Technology (9-10) #8500
Principles of Information Technology Dual (9-12) #8501
Principles of Information Technology M (9-10) #8502

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.

SEM: 2 CR: 1

Digital Media (10-12) #8520
Digital Media Dual (10-12) #8521
Digital Media M (10-12) #8522

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.

SEM: 2 CR: 1

Graphic Design and Illustration I (10-12) #8155
Students will be expected to develop an understanding of the advertising and visual communications industry with a focus on fundamental elements and principles of design, visual art, graphic design and illustration.

SEM: 2 CR: 1

Graphic Design and Illustration II (11-12) #8156
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: 1

Audio/Video Production I (10-12) #8153
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.

SEM: 2 CR: 2

Audio/Video Production II (11-12) #8154
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.

Audio/Video Production II Lab
Students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, and critical-thinking, problem-solving, and collaborative skills. This course may be implemented in an audio format or a format with both audio and video. Requiring a lab corequisite for the course affords necessary time devoted specifically to the production and post-production process.

PR: Audio/Video Production

SEM: 2 CR: 2
Business & Industry Endorsement

Art, A/V Technology, & Communications

- Photography
- Animation

Principles of Information Technology (9-10) #8500
Principles of Information Technology Dual (9-12) #8501
Principles of Information Technology M (9-10) #8502

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. SEM: 2 CR: 1

Digital Media (10-12) #8520
Digital Media Dual (10-12) #8521
Digital Media M (10-12) #8522
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. SEM: 2 CR: 1

Photography

Commercial Photography I (10-12) #8158
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. SEM: 2 CR: 1

Animation I (11-12) #8151
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. SEM: 2 CR: 1

Commercial Photography II (11-12) #8159
Students will develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. SEM: 2 CR: 1

Animation II (11-12) #8152
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 I SEM: 2 CR: 1

See Counselor for course availability
Business & Industry Endorsement

Architecture & Construction

- Fashion Design
- Interior Design

Principles of Human Services (9-10) #8450
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. SEM: 2 CR: 1

Interior Design I (10-12) #8101
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: Algebra I & English I SEM: 2 CR: 1

Interior Design II (11-12) #8103
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: English II, Geometry & Interior Design I SEM: 2 CR: 2

Arts, A/V Technology & Communication

- Fashion Design
- Interior Design

Practicum in Fashion Design (12) #8128
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 management and services. PR: Interior Design II SEM: 2 CR: 2

Practicum in Interior Design (12) #8126
Students will be expected to develop an advanced technical understanding of the business aspects of fashion, with emphasis on promotion and retailing. Instruction may be delivered through lab based classroom experiences or career preparation opportunities. PR: Fashion Design II & Fashion Design II Lab SEM: 2 CR: 2

Practicum in Interior Design I (10-12) #8101
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 I SEM: 2 CR: 2

Practicum in Fashion Design II (11-12) #8161
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 II Lab SEM: 2 CR: 2

Practicum in Fashion Design II Lab (11-12)
Students will develop 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 fashion industry with an emphasis on design and construction. PR: Fashion Design I SEM: 2 CR: 2

Fashion Design (9-10) #8160
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. SEM: 2 CR: 1

Practicum in Fashion Design I (10-12) #8162
Students will be expected to develop an advanced technical understanding of the business aspects of fashion, with emphasis on promotion and retailing. Instruction may be delivered through lab based classroom experiences or career preparation opportunities. PR: Fashion Design II & Fashion Design II Lab SEM: 2 CR: 2

See Counselor for course availability
### Hospitality & Tourism

- **Culinary Arts**
- **Hospitality & Tourism**

#### Principles of Human Services (9-10) #8450

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.

**SEM:** 2  **CR:** 1

#### Hotel Management (10-11) #8403

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.

**SEM:** 2  **CR:** 1

#### Introduction to Culinary Arts (10-11) #8422

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

**SEM:** 2  **CR:** 1

#### Hospitality Services (11-12) #8425

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

**SEM:** 2  **CR:** 2

#### Culinary Arts (11-12) #8420

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.

**SEM:** 2  **CR:** 1

#### Practicum in Culinary Arts (12) #8421

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:** Culinary Arts

**SEM:** 2  **CR:** 1

#### Food Science (11-12) #8430

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:** 3 units of Science including Chemistry & Biology

**SEM:** 2  **CR:** 2

#### FCS Career Preparation (11-12) #8002

Provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences.

**PR:** Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a career cluster related to the field in which the student will be employed.

**SEM:** 2  **CR:** 3

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**Hospitality Services (11-12) #8426**

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.

**SEM:** 2  **CR:** 2

**FCS Career Preparation (11-12) #8002**

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.
Architecture And Construction

• Construction Technology
• Architecture

Principles of Architecture (9-10) #8098
Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings. SEM: 2 CR: 1

Principles of Construction (9-10) #8099
Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. SEM: 2 CR: 1

Architectural Design I (10-12) #8104
Architectural Design I M (10-12) #8105
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: Algebra I & English I SEM: 2 CR: 1

Architectural Design I (11-12) #8106
Prerequisites: Algebra I & English I
Architectural Design II is 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: Architectural Design I & Geometry SEM: 2 CR: 2

Electrical Technology I (10-12) #8135
Electrical Technology I M (10-12) #8115
A course in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications. SEM: 2 CR: 1

Construction Technology I (10-12) #8111
Construction Technology I M (10-12) #8107
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. SEM: 2 CR: 2

Construction Technology II (11-12) #8112
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 workforce as carpenters, building maintenance technicians, or supervisors or prepare for a postsecondary degree in construction management, architecture, or engineering. PR: Construction Technology I SEM: 2 CR: 2

Practicum in Architectural Design (12) #8127
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: Architectural Design II SEM: 2 CR: 2

See Counselor for course availability

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TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

- Automotive
- Collision
- Alamo Academies

**Principles of Transportation Systems (9-10) #8759**

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.

**Automotive Basics (9-10) #8766**

This course includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems.

**Automotive Technology I (10-12) #8752**

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.

**Automotive Technology II (12) #8753**

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.

**Basic Collision Repair and Refinishing (10-12) #8765**

This course includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.

**Collision Repair (11-12) #8754**

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.

**Paint and Refinishing (12) #8756**

This course includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive paint and refinishing.

**Introduction to Aircraft Technology Dual #8740**

This course provides an introduction to aircraft technology and basic principles of aircraft mechanics and systems. First year instruction includes aircraft mechanical, electrical, and electronic systems, service and repair of hydraulic systems, airframes, and rigging. Leads toward FAA certification.

**Diesel Equipment Technology I Dual #8742**

An Alamo Area Heavy Equipment Academy course introducing the basic principles of diesel engines and systems. Includes fundamentals of hydraulics including components and related systems. This is an introduction to the basic principles of electrical systems for diesel powered equipment with emphasis on starters, alternators, batteries, and regulators.

**Practicum in Transportation Systems Dual #8743**

Extended Practicum in Transportation Systems Dual (AAAA Yr. 2) (12) (College credit course-St. Philip’s Southwest Campus)

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 infrastructures or turbine technology. The students continue progress toward FAA Certification.

**Practicum in Transportation Systems Dual #8743**

Extended Practicum in Transportation Systems Dual (HEA Yr. 2) (12) (College credit course-St. Philip’s Southwest Campus)

An Alamo Area Heavy Equipment Academy course designed to apply advanced concepts and skills required for tune-up and troubleshooting procedures of diesel engines. Emphasis on the science of diagnostics with a common sense approach.

**See Counselor for course availability**
TRANSPORTATION, DISTRIBUTION, AND LOGISTICS MANUFACTURING

• Manufacturing
• Alamo Area Academies

Principles of Manufacturing #8600
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.

SEM: 2 CR: 1

Introduction to Welding (10-11) #8601
Students will be introduced to the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries.

SEM: 2 CR: 1

Precision Metal Manufacturing I (11-12) #8610
While the course is designed to provide necessary skills in machining, it also provides a real-world foundation for any engineering discipline. This course may address a variety of materials such as plastics, ceramics, and wood in addition to metal.

SEM: 2 CR: 2

Precision Metal Manufacturing II #8611
This course provides students the knowledge, skills, and technologies required for employment in precision machining. While this course is designed to provide necessary skills in machining, it also provides a real-world foundation for any engineering discipline. This course addresses a variety of materials such as plastics, ceramics, and wood in addition to metal.

PR: Precision Metal Manufacturing I

SEM: 2 CR: 2

Metal Fabrication and Machining I Dual (11-12) #8608
(ATMA Yr. 1)(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: 2

Practicum in Manufacturing Dual (12) #8607
Extended Practicum in Manufacturing Dual (12)
(Atma Yr. 2) (College credit course-St. Philip’s Southwest Campus)
(Atma 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
Public Services Endorsement

**Human Services**
- Human Services
- Cosmetology
- Education & Training

**Principles of Human Services (9-10) #8450**
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.

**SEM:** 2  **CR:** 1

**Child Development (10-12) #8462**
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.

**SEM:** 2  **CR:** 1

**Child Guidance (11-12) #8461**
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  **SEM:** 2  **CR:** 2

**Cosmetology I (10-12) #8470**
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.

**SEM:** 2  **CR:** 2

**Introduction to Cosmetology (11) #8469**
Students explore careers in the cosmetology industry. To prepare for success, students must have academic and technical knowledge and skills relative to the industry. Students may begin to earn hours toward state licensing requirements.

**SEM:** 2  **CR:** 1

**Instructional Practices (11-12) #8252**
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 instructional roles with elementary and middle school-aged students.

**SEM:** 2  **CR:** 2

**Cosmetology II (11-12) #8471**
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:** 2

**Practicum in Education and Training (12) #8253**
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.

**PR:** Instr. Practices  **SEM:** 2  **CR:** 2

**Principles of Cosmetology Design & Color Theory (12) #8472**
Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

**SEM:** 2  **CR:** 1
Health Science

Principles of Health Science (10-12) #8352
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.
SEM: 2 CR: 1

Medical Terminology (9) #8358
Medical Terminology Dual (11-12) #8359
(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.
SEM: 1 CR: 1

Health Science Theory (11-12) #8356
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 & Biology
SEM: 2 CR: 1

Health Science Theory/Clinical (11-12) #8357
This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.
PR: Principles of Health Science & Biology
SEM: 2 CR: 2

Pathophysiology (11-12) #8362
Students focus on disease mechanisms and how they affect humans, as well as prevention and treatment of disease. Students will differentiate between normal and abnormal physiology at the cellular, organ and organism levels, identify changes that indicate diseases, factors contributing to disease, causes of disease and the body’s response, and disease prevention and control. Students will conduct laboratory and field investigations using scientific methods, critical thinking and scientific problem solving. (minimum 40% lab)
PR: Biology and Chemistry
SEM: 2 Science CR: 1

Anatomy and Physiology (11-12) #8380
Anatomy and Physiology H (11-12) #8379
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: Biology & 2nd Science
SEM: 2 Science CR: 1

Medical Microbiology (11-12) #8361
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: Biology & Chemistry
SEM: 2 Science CR: 1

Pharmacology (12) #8350
Pharmacology Dual (11-12) #8351
(College credit course-Northwest Vista College)
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: Biology & Chemistry
SEM: 2 CR: 1

Practice in Health Science (12) #8370
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: Principles of Health Science, Health Science Theory, & Biology
SEM: 2 CR: 2

Extended Career Preparation Health Science (11-12) #8004
Students spend one hour in class each day and a minimum of 15 hours on the job each week. Student are employed in a health related field.

Emergency Medical Technician (EMT) (11-12) #8370
Offered provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences.
PR: Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a career cluster related to the field in which the student will be employed.
SEM: 2 CR: 3
**LAW ENFORCEMENT AND FIRE SCIENCE**

- **Fire Science**
- **Law Enforcement**

**Principles of Law, Public Safety, Corrections, and Security (9-10) #8550**
Introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. This course examines the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

**Law Enforcement I (10-12) #8552**
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.

**Firefighter I (10-12) #8560**
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 protection equipment, and the principles of fire safety.

**Law Enforcement II (11-12) #8556**
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.

**Firefighter II (11-12) #8561**
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 protection equipment, and the principles of fire safety. Students will apply standard procedures for use of fire extinguishers, ladder, fire hose, and water supply apparatus.

**Criminal Investigation (11-12) #8554**
Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.

**Court Systems and Practices (12) #8555**
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 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.

**Forensic Science (12) #8553**
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.

See Counselor for course availability
### Science, Technology, Engineering & Mathematics

#### STEM Endorsement

![SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS](image)

- **Engineering**

### Principles of Applied Engineering (9-10) #8700
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.

**SEM:** 2 CR: 1

### Engineering Design and Presentation I (10-12) #8701
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:** Algebra I

**SEM:** 2 CR: 1

### Engineering Design and Problem Solving (11-12) #8710
Through implementation of the design process, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their designs. Additionally, students explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

**SEM:** 2 CR: 1

### Robotics I (11-12) #8730
Through implementation of the design process, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their designs.

**PR:** Robotics I

**SEM:** 2 CR: 1

### Robotics II (12) #8707
### Engineering Design and Problem Solving M (11-12) #8709
This course is the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines.

**PR:** Algebra I & Geometry

**SEM:** 2 CR: 1 Science credit

### Career & Technology Education Student Certifications

- Automotive Service Excellence (ASE)
- Pharmacy Technician
- ServSafe
- Basic Life Support (BLS)
- Sterile Processing & Distribution Technician
- Computer Maintenance
- Texas Beef Quality Assurance
- Cardiopulmonary Resuscitation/Automated external defibrillator (CPR/AED)
- National Center for Construction Education and Research (NCCER)
- Occupational Safety and Health Administration (OSHA)
- Cisco Certified Network Associate (CCNA)
- Cosmetology
- CompTIA A+
- Bloodborne Pathogens
- Certified Nursing Assistant
- Microsoft Office Specialist (MOS)
- Registered Dental Assistant (RDA)
- Adobe Certified Associate (ACA)
English Language Arts

Core Courses

English I (9) #1100
English M (9) #1111
In English I, students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Students will read and write on a daily basis.

SEM: 2 CR: 1

English II Pre-AP (9) #1120
English I Pre-AP M (9) #1121
English I Pre-AP is meant to provide a foundational course for students who intend to enroll in Advanced Placement English III and IV. The course offers a study of multiple genres and periods of literature, accompanies a variety of writing opportunities, vocabulary study, and higher level thinking skills and strategies from College Board. Instruction includes an introduction to key terms, skills, and strategies associated with rhetorical and literary analysis.

SEM: 2 CR: 1

English II (10) #1200
English II M (10) #1212
English II focuses on research skills, library skills, language usage, composition methods, reading competence, literature appreciation, vocabulary enrichment, and effective test-taking techniques.

PR: English I
SEM: 2 CR: 1

English II Pre-AP (10) #1220
English II Pre-AP M (10)#1223
English II Pre-AP continues the foundational preparation for the upper level AP courses. Through a study of classic, Anglo/Saxon, Medieval, and Renaissance literature, students have multiple opportunities to develop and demonstrate their understanding of rhetorical and literary devices through close reading and analysis.

PR: English I or English I Pre-AP
SEM: 2 CR: 1

English III (11) #1300
English III M (11) #1311
English III consists of advanced language usage, written compositions, preparation for college entrance examinations through vocabulary development and test-taking techniques, a survey of American literature from 1607 to the present time, and advanced research skills applicable to a documented paper on an appropriate topic.

PR: English II
SEM: 2 CR: 1

English IV (12) #1400
English IV M (12) #1411
English IV includes extensive composition and language practice, a study of the origins and growth of the English language through a survey of British literature, and the reading of other works by world masters from all periods.

PR: English III or English III AP
SEM: 2 CR: 1

English IV College Prep (12) #1421
This college preparatory course is designed for senior students who have passed English II EOC, but have not yet met ELA college-ready criteria. Upon successful completion of this course, the student will receive a TSI waver and may enter an entry-level college credit-bearing English course at partnering institutions without remediation. English IV College Prep includes extensive composition and language practice, with a focus on expository and persuasive writing, as well as inquiry and research.

PR: English III and Passing score on English II STAAR EOC
SEM: 2 CR: 1

Advanced Placement Courses

English III Advanced Placement (11) #1330
English III Advanced Placement M (11) #1334
This course engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing.

PR: English II Pre-AP or English II
SEM: CR: 1

English III Advanced Placement/Dual Credit (11) #1333
English III Advanced Placement/Dual Credit M (11) #1336
This course engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing.

PR: English II Pre-AP or English II and acceptance to Northwest Vista College
SEM: 2 CR: 1

English IV Advanced Placement (12) #1430
English IV Advanced Placement M (12) #1431
This course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work’s structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone.

PR: English III AP or English III
SEM: 2 CR: 1

English IV Advanced Placement/Dual Credit 2 (12) #1457
English IV Advanced Placement Dual Credit 2 M (12)#1458
This course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work’s structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. Students are dual-enrolled at Northwest Vista College and will receive English 2322 and 2323 college credit upon successful completion of coursework.

PR: English III AP or English III and acceptance to Northwest Vista College
SEM: 2 CR: 1

English Electives

Creative Writing (10-12) #1810
Creative Writing M (10-12) #1811
In this rigorous composition course, students will write poetry, fiction, non-fiction, and drama. They will demonstrate an understanding of the recursive nature of the writing process. Through reading, studying, and analyzing various literary forms and literary criticism, students will develop their versatility as writers.

PR: English I
SEM: 1 CR: 1/2

Humanities I (11-12) #1857
Humanities II (11-12) #1859
This interdisciplinary course asks students to read widely in order to understand how various authors craft compositions for various aesthetic purposes. It includes the study of major historical and cultural movements and their relationship to literature and the other fine arts. All students are expected to participate in discussions and presentations that lead to an understanding, appreciation, and enjoyment of critical, creative achievements throughout history.

PR: English I and II
SEM: 1-2 CR: ½-1

Literary Magazine Production I (10-12) #1770
Literary Magazine Production I M (10-12) #1771
Literary Magazine Production II (11-12) #1776
Working within time constraints and budget limitations, students will develop skills in producing and publishing a creative writing anthology. Students will enhance their writing and editing skills. Students will participate in the selection and preparation of the literary magazine and will probably work in leadership positions.

PR: English I and II
SEM:1-2 CR: ½-1

Literary Genres- Multicultural Literature (11-12) #1846
Through the study of literature that reflects a particular people or social group, students will recognize how writers represent and reveal their cultures and traditions in texts. Students will also discover how well-written literary texts serve as models for their own writing.

PR: English I and II
SEM: 1-2 CR:éd ½ -1

Literary Genres- Film (11-12) #1844
Students will analyze a variety of literary texts and their film counterparts in order to compare and contrast author’s purpose and a variety of other features of each genre. In addition, students are expected to read and view critically in order to evaluate a text or film.

PR: English I and II
SEM: 1-2 CR: ½ -1

Literary Genres—Poetry (11-12) #1845
Students will read and analyze poetry, focusing on how writers use poetic elements and form to create meaning. Using mentor texts from multiple literary time periods, students will study poets and their work to 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 poetry.

PR: Eng I and II
SEM: 1-2 CR: ½ -1
Literary Genres—Science Fiction (11-12) #1847
Students will read and analyze science fiction, from its origin in ancient texts to its popular presence in modern culture. Using mentor texts from time periods, students will study science fiction writers and their work to 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 genre.

FR: Eng I and II
SEM: 1 CR: 1

Literary Genres—Mythology (11-12) #1848
Students will read and analyze classical mythology, focusing on its influence on contemporary literature and culture. They will have the opportunity to respond to oral, written, and electronic text while connecting to and expanding their knowledge of mythology.

FR: Eng I and II
SEM: 1 CR: 1

Visual Media Analysis and Production M (11-12) #1991
Students will understand how media such as film, radio, Internet, television, magazines, and newspapers influence a society's behavior. Students will analyze all forms of media and film, as well as produce their own ads, commercials, screenplays, etc.

SEM: 1 CR: 1

Journalism

Journalism I (9-12) #1701
This course is designed to introduce students to the history of mass media and its role in contemporary society. Included are the features and functions of journalism and newspaper production, freedom and responsibility of the press, career opportunities in mass communications, and writing to fulfill a variety of assignments.

SEM: 2 CR: 1

Advanced Journalism—Newspaper I (9-12) #1740
Advanced Journalism—Newspaper II (10-12) #1750
Advanced Journalism—Newspaper III (11-12) #1760
Students develop and produce the school newspaper, and participate in advanced study of feature, column, editorial, and sports writing. Additionally, they learn the role of advertising in newspaper publication, how to define editorial policy, how to conduct interviews, and how to use other appropriate writing techniques. Students also learn current trends in format and publishing techniques, graphics, design, and layout considerations in publishing newspapers.

SEM: 2 CR: 1

Adv. Journalism Honors—Newspaper I (9-12) #1745
Adv. Journalism Honors—Newspaper II (10-12) #1755
Adv. Journalism Honors—Newspaper III (11-12) #1765
Open to students in editorial/leadership roles, this is an advanced study of journalism, editorial management, and publication analysis, focusing on the newspaper or news magazine.

SEM: 2 CR: 1

Advanced Broadcast Journalism Yearbook I (9-12) #1710
Advanced Broadcast Journalism Yearbook II M (9-12) #1711
Advanced Broadcast Journalism Yearbook II M (10-12) #1720
Advanced Broadcast Journalism Yearbook III (11-12) #1730
Advanced Broadcast Journalism Yearbook III M (11-12) #1731
Students develop and produce the school yearbook, taking responsibility for the merchandising and financial components of its production. Coursework includes an advanced study of feature, sports, headline and caption writing; the study of current trends in formats and techniques used in publishing; graphic design; and layout considerations in publishing a yearbook; the printing process, and preparation of press-ready materials.

SEM: 2 CR: 1

Adv. Journalism Honors—Yearbook I (9-12) #1714
Adv. Journalism Honors—Yearbook II (10-12) #1725
Adv. Journalism Honors—Yearbook III (11-12) #1735
Open to students in editorial/leadership roles, this is an advanced study of journalism, editorial management, and publication analysis, focusing on the school yearbook.

SEM: 2 CR: 1

Advanced Broadcast Journalism I (9-12) #1716
Advanced Broadcast Journalism II (10-12) #1718
Advanced Broadcast Journalism III (11-12) #1732
Students enrolled in this course apply and use their journalistic skills for a variety of purposes. Coursework includes the laws and ethical considerations that affect broadcast journalism; teaching the role and function of broadcast journalism; and analyzing the significance of visual representations; and learning to create and produce a broadcast journalism product.

SEM: 2 CR: 1

Adv. Broadcast Journalism—Honors I (9-12) #1717
Adv. Broadcast Journalism—Honors II (10-12) #1719
Adv. Broadcast Journalism—Honors III (11-12) #1733
Open to students in editorial/leadership roles, this is an advanced study of broadcast journalism, program production management, and program analysis.

SEM: 2 CR: 1

Photojournalism I (10-12) #1780
This course includes the study of photographic composition; use of the camera; and photograph 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.

SEM: 2 CR: 1

Reading

Reading I (9-12) #1590
Reading II (10-12) #1592
Reading III (11-12) #1594
Reading I, II, and III offer students reading instruction to successfully navigate academic demands and learn lifelong literacy skills. These courses are designed for students who are having considerable difficulty in reading. Students will learn study strategies, test-taking skills, the literacy processes necessary for handling a wide variety of texts, including school materials, work-related reading, and self-selected pleasure reading. Students eligible for this class include those who meet any of the following criteria: students who fail to pass the reading objectives of the STAAR 8th grade reading or EOC tests, fail two or more content subjects, or are designated as at-risk. This course is designed to teach reading as a critical life skill.

PR: Recommendations of counselor

SEM: 2 CR: 1

and/or reading specialists

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

local credit

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

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

state credit

Speech Electives

Debate I Honors (9-12) #1930
Debate II Honors (10-12) #1932
Debate III Honors (11-12) #1933
This course of study is designed to teach argumentation skills and the elements of debate. Students will become familiar with various debate formats, research skills, and effective presentations. They will learn to analyze topics and to support a point of view. Participation in UIL, TFL and/or National Speech and Debate competition is required.

SEM: 2 CR: 1

Communication Applications (9-12) #1900
Communication Applications M (9-12) #1902
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

Public Speaking I (9-12) #1943
Public Speaking II (10-12) #1944
Public Speaking III (11-12) #1945
Students in this course will understand the concepts and skills necessary for public dialogue. It provides an in-depth analysis of communication and rhetoric through the study of famous speeches, propaganda, mass media, mock trials, and logic.

SEM: 2 CR: 1

Independent Study: Speech Honors (12) #1950
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 polish of oral presentation will be such as to demonstrate superlative control and execution of speech skills.

PR: Debate I, II, II

ESOL

See Counselor for course availability

ESOL
These Public Speaking courses are designed to prepare students for the Academic Decathlon Contest. The purposes are to develop a greater respect for knowledge, to develop lifetime skills in speech and interview, to gain a better appreciation for music and art, and to promote wholesome competition in academic areas of study. The contest includes six tests of academic strength, speech, essay, and interview. Team members will receive honors credit for this course.

PR: Teacher Approval SEM: 2 CR: 1

Academic Decathlon/Public Speaking I Honors (9-12) #1940
Academic Decathlon/Public Speaking II Honors (9-12) #1941
Academic Decathlon/Public Speaking III Honors (9-12) #1942

Speech Independent Study Honors #1952
These Public Speaking courses are designed to prepare students for the Academic Decathlon Contest. The purposes are to develop a greater respect for knowledge, to develop lifetime skills in speech and interview, to gain a better appreciation for music and art, and to promote wholesome competition in academic areas of study. The contest includes six tests of academic strength, speech, essay, and interview. Team members will receive honors credit for this course.

PR: Teacher Approval SEM: 2 CR: 1

GT Student Leadership Honors # 9060
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 organizational 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 have 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 # 9068
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

Mathematics

Algebra I (9-12) #2150
Algebra 1 (9) #2170

Algebra I M #2171
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) #2160
Algebra I Pre-AP M #2161
This course is designed to include all the Algebra I NYS 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) #2300
Geometry M #2307
Geometry (9) #2306

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.

PR: Algebra I SEM: 2 CR: 1

Geometry Pre-AP (9-12) #2350
Geometry Pre-AP M #2348
Geometry Pre-AP (9) #2349

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 1 Pre-AP prior to enrolling in Geometry Pre-AP.

PR: Algebra I SEM: 2 CR: 1

Algebra II (9-12) #2200
Algebra II M #2204
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) #2240
Algebra II Pre-AP M #2236
Algebra II Pre-AP (9) #2239

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 Mathemat- ics—Advanced Algebra 3) (12th) #2873
College Prep Math (Independent Study Mathemati cs—Advanced Algebra 3) M #2874

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: Geometry and Algebra II

Mathematical Models with Applications (10-12) #2500
Mathematical Models with Applications M #2501

This course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions.

PR: Algebra I SEM: 2 CR: 1

Algebraic Reasoning (10-12) #2298

In this course, students will study functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness.

PR: Algebra I SEM: 2 CR: 1

Statistics (10-12) #2806

In this course, students will broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Students will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis.

PR: Algebra I SEM: 2 CR: 1

Precalculus (10-12) #2400
Precalculus M #2401

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: Geometry and Algebra II SEM: 2 CR: 1
Precalculus Pre-AP (10-12) #2420
Precalculus Pre-AP M #2421
Precalculus Pre-AP D #2452
Precalculus Pre-AP M D #2461
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: Geometry and Algebra II SEM: 2 CR: 1

Advanced Quantitative Reasoning (11-12) #2877
Advanced Quantitative Reasoning D #2879
AQR is an engaging and rigorous project-based course that prepares students to become well-educated and highly informed 21st century citizens. 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 and Algebra II SEM: 2 CR: 1

Independent Study Mathematics—College Algebra
(11-12) #2871
Independent Study Mathematics—College Algebra D #2872
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 and Algebra II SEM: 2 CR: 1

Advanced Placement Courses
AP Calculus AB (11-12) #2610
AP Calculus AB M #2601
AP Calculus AB D #2600
AP Calculus AP M D #2621
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) #2630
AP Calculus BC M #2632
AP Calculus BC D #2639
AP Calculus BC M D #2631
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 (10 - 12) #2800
AP Statistics M #2801
AP Statistics D #2805
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: Geometry and Algebra II SEM: 2 CR: 1

Senior Seminar
Senior Seminar (12) #9027
Senior Seminar M (12) #9026
This is a college transition course. Students examine numerous research-based learning strategies that are proven to lead to academic success such as goal-setting, effective time management, handling stress, note-taking, active reading, test-taking strategies, and conducting research.
SEM: 2 CR: 1

Technology Applications
Principles of CS AP #7100
(O’Connor, John Jay, Brandeis, Brennan, Clark, Health Careers only)
AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. The technology applications curriculum emphasizes the skills and qualities set by International Society for Technology in Education standards for students: empowered learner, digital citizen, knowledge constructor, innovative designer, computational thinker, creative communicator, and global collaborator. This course will satisfy one of the four Technology Applications credits required to earn a STEM endorsement.
PR: None SEM: 2 CR: 1

Computer Science 1 PreAP (9-12) #7110
(O’Connor, John Jay, Brandeis, Brennan, Marshall, Clark, Health Careers only)
Computer Science I will foster students’ creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. The technology applications curriculum emphasizes the skills and qualities set by International Society for Technology in Education standards for students: empowered learner, digital citizen, knowledge constructor, innovative designer, computational thinker, creative communicator, and global collaborator. This course will satisfy one of the four Technology Applications credits required to earn a STEM endorsement.
PR: None SEM: 2 CR: 1

Computer Science 3 H (11-12) #7310
(O’Connor, John Jay, Brandeis, Brennan, Clark, Health Careers only)
CS3 H 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, and hardware and software resources. Students will create program solutions, develop choose and iterative algorithms, and understand object-oriented design concepts of inner classes, outer classes, and anonymous classes. The student is expected to write programs and communicate with proper programming style as well as work in software design teams. The technology applications curriculum emphasizes the skills and qualities set by International Society for Technology in Education standards for students: empowered learner, digital citizen, knowledge constructor, innovative designer, computational thinker, creative communicator, and global collaborator. This course will satisfy one of the four Technology Applications credits required to earn a STEM endorsement.
PR: Computer Science 2 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.

Biology (9) #3100
Biology M (9) #3101
Biology C (9) #3103
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. (Minimum 40% lab)
PR: None SEM: 2 CR: 1

See Counselor for course availability
**Aquatic Science (11-12) #3800**

Students learn the interactions of biotic and abiotic components in a variety of aquatic systems, including impacts on fresh and marine aquatic systems. (Minimum 40%, lab)

PR: Biology (Chemistry may be taken concurrently)

SEM: 2  Science CR: 1

**Astronomy (11-12) #3805**

Students conduct observations of the sky and study astronomy in civilizations, patterns and objects in the sky, our place in space, the moon, reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration within a conceptual framework.

PR: Biology plus one year of a physical science (IPC, Chemistry or Physics) which may be taken concurrently

SEM: 2 CR: 1

**Environmental Systems (11-12) #3560**

Students study a variety of topics that include: biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, and changes in environments. (Minimum 40% lab)

PR: Biology and one year of physical science (IPC, Chemistry, or Physics)

SEM: 2 CR: 1

**Earth and Space Science (11-12) #3510**

This course builds on students’ prior scientific and academic knowledge and skills. It takes an Earth sciences approach to the themes of Earth in space and time, solid Earth, and fluid Earth. These topics will be studied through three strands—systems, energy, and relevance. The adopted textbook is at the introductory college level. (Minimum 40% lab)

PR: Biology, Chemistry, Physics (one of these may be taken concurrently.) Algebra 1 and Geometry plus a third math may be taken concurrently.

SEM: 2  Science CR: 1

**CTE courses that grant science credit**

**Anatomy and Physiology (11-12) #8380**

Students in Anatomy and Physiology study the structure and functions of the human body, its systems, and interactions among these systems to maintain homeostasis. This is a Career Education Education course that awards science elective credit. (Minimum 40% lab)

PR: Biology and a second science credit

SEM: 2  Science CR: 1

**Biology (11-12) #3400**

Students study a variety of topics that includes the laws of motion; changes within physical systems; conservation of momentum and energy; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear and quantum physics. (Minimum 40% lab)

PR: Biology; Algebra I and concurrent enrollment in a second math course

SEM: 2  Science CR: 1

**Chemistry Pre-AP (10-12) #3310**

Students study the concepts in physics including force, motion, and energy in and chemistry including properties and changes of matter. Instruction will include laboratory investigations using scientific methods, critical thinking and problem solving. IPC is often taken after Biology and before Chemistry or Physics. (Minimum 40% lab)

PR: None

SEM: 2  Science CR: 1

**Chemistry Pre-AP M (10-12) #3311**

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  Science CR: 1

**Physics M (11-12) #3401**

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  Science CR: 1

**Pathophysiology (11-12) #8362**

Students focus on disease mechanisms and how they affect humans, as well as prevention and treatment of disease. Students will differentiate between normal and abnormal physiology at the cellular, organ and organ system levels, identify changes that indicate diseases, factors contributing to disease, causes of disease and the body’s response, and disease prevention and control. Students will conduct laboratory and field investigations using scientific methods, critical thinking and scientific problem solving. (Minimum 40% lab)

PR: Biology and Chemistry

SEM: 2  Science CR: 1

**Advanced Placement Courses**

**AP Biology (11-12) #3130**

PR: Biology and                      SEM: 2  Science CR: 1

**AP Biology M (11-12) #3131**

**AP Biology D (11-12) #3133**

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 who are successful in this course have likely completed Biology, Chemistry, Algebra I and Geometry.

SEM: 2  Science CR: 1

for course availability
AP Capstone: Year 1-AP Seminar (10-11) #3900
Brandeis Only
Development at the request of College Board Higher Education membership, the AP Capstone program is built on the foundation of two new AP courses – AP Seminar and AP Research – and is designed to complement and enhance the in-depth, discipline-specific study provided through other AP courses. In AP Seminar, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop valid evidence-based arguments. In AP Capstone Year 2, these students will enroll in AP Research. Students earn the AP Capstone diploma by completing coursework (AP Seminar and AP Research) and AP exams (scoring three or higher on these two AP exams, as well as on four additional AP exams of their choosing). The Capstone™ signifies their outstanding academic achievement of college-level academic and research skills.
PR: PreAP experience
SEM: 2 Science CR: 1, Speech CR: ½

AP Capstone: Year 2-AP Research (11-12) #3901
Brandeis Only
AP Research was developed by the College Board Higher Education membership to follow the Capstone Year 1 Seminar course in which students investigated real world science topics from multiple perspectives. In this course, students will cultivate the skills and discipline necessary to conduct independent research in order to produce and defend their own scholarly work. Students earn the AP Capstone diploma by completing coursework for both AP Seminar and AP Research and scoring three or higher on both AP Capstone exams, as well as on four additional AP exams of their choosing. The Capstone diploma signifies their outstanding academic achievement of college-level academic and research skills.
PR: AP Capstone Seminar
SEM: 2 Science CR: 1

AP Chemistry (11-12) #3330
AP Chemistry M (11-12) #3331
This is a rigorous college course organized around the underlying concepts that govern chemical systems: atomic theory, the forces within matter, changes of matter, kinematic molecular theory, thermodynamics and equilibria. This course includes many math applications and 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 may be taken concurrently.
SEM: 2 Science CR: 1

AP Environmental Science (11-12) #3500
AP Environmental Science M (11-12) #3501
AP Environmental Science D (11-12) #3505
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. Students successful in this course have likely completed Biology and Chemistry.
SEM: 2 Science CR: 1

Check Deadlines Required to Apply for Dual Credit Courses.

AP Physics 1 (11-12) #3425
AP Physics 1 M (11-12) #3436
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. Students successful in this course have likely completed Biology, Chemistry, Algebra I, Geometry, and Algebra II. Algebra II may be taken currently. After this course, students may take AP Physics 2, AP Physics C (calculus-based physics), another AP science course or other science elective.
SEM: 2 Science CR: 1

AP Physics 2 (11-12) #3440
AP Physics 2 M (11-12) #3441
This course must 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. Students successful in this course have likely completed Biology, Chemistry, AP Physics 1, Algebra I, Geometry, Algebra II. Precalculus may be taken concurrently.
SEM: 2 Science CR: 1

AP Physics C-Mechanics (11-12) #3450
AP Physics C-Mechanics (11-12) #3451
(Semester course)
AP Physics 1 is a prerequisite for this course. This rigorous 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 framework including kinematics; Newton’s laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Students will prepare to take the AP Physics C-Mechanics exam in May. Students successful in this course are likely to have completed Biology, Chemistry, AP Algebra I, Geometry, Algebra II, Precalculus and Calculus.
Calculus may be taken concurrently.
SEM: 2 Science CR: 1

AP Physics C-Electricity & Magnetism (11-12) #3454
AP Physics C M-Electricity & Magnetism (11-12) #3455
(Semester course)
AP Physics 1 and AP Physics C-Mechanics are prerequisites for this course. This rigorous course is most often taken by students preparing for higher education in the physical sciences, engineering, or electronics. Designing and conducting investigations and problem solving will apply calculus and technology aligned with the College Board framework including electrostatics; conductors, capacitors and dielectrics; electric circuits; magnetic fields; and electromagnetism. Students will prepare to take the AP Physics C-Electricity & Magnetism exam in May. Students successful in this course are likely to have completed Biology, Chemistry, AP Physics 1, AP Physics C-Mechanics, Algebra I, Geometry, Algebra II, Precalculus and Calculus.
Calculus may be taken concurrently.
SEM: 1 Science credit: 1

Social Studies

World Geography Studies (9-12) #4300
World Geography Studies (9-12) M #4301
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 landforms, 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) #4320
Pre-AP World Geography M (9-12) #4311
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) #4200
World History Studies M (9-12) #4203
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 (10-12) #4230
Pre-AP World History M (10-12) #4231
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

See Counselor for course availability 2017-2018 High School Course Catalog
United States History Studies Since Reconstruction (11-12) #4100
United States History Studies Since Reconstruction M (11-12) #4103M
United States History Studies Since Reconstruction Dual (11-12) #4160

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

United States Government (12) #4400
United States Government M (12) #4401

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

Economics with Emphasis on the Free Enterprise System and Its Benefits (12) #4500
Economics with Emphasis on the Free Enterprise System and Its Benefits M (12) #4501

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

Social Studies Electives

Issues Involving Critical Thinking in the Social Studies (11-12) #4901

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

Personal Financial Literacy (11-12) #4922

This course is designed to provide students with a foundation in responsible personal financial practices. The course equips students with the analytical skills necessary to make good decisions in earning and spending; saving and investing; credit and borrowing; insuring and protecting; and college and postsecondary education and training.
PR: None SEM: 1 CR: 1/2

Psychology (11-12) #4700
Psychology P-AP (11-12) #4720
Psychology Dual (11-12) #4721

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) #4800
Sociology H (11-12) #4810
Sociology D (11-12) #4811

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) #4679
Street Law H (11-12) #4675

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 Honors (11-12) #4600

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 markets; and macroeconomics linkage between countries.
PR: Core Courses SEM: 1 CR: 1/2

A Study in Comparative Religions Honors (12) #4690

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 European History (11-12) #4625

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 central 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 exam is the responsibility of the student.
PR: Core Courses SEM: 2 CR: 1

AP Human Geography incorporating World Geography Studies TEKS (9-10) #4316
AP Human Geography incorporating World Geography Studies M (9-10) #4317

AP Human Geography introduces students to the systemic 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 may be used as a substitute for World Geography Studies.
PR: None SEM: 2 CR: 1

AP AP Microeconomics Dual (11-12) #4456
AP Microeconomics Dual M (11-12) #4457

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. This course may be used to meet the Economics requirement for graduation.
PR: None SEM: 1 CR: 1/2

AP AP Psychology (11-12) #4730

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 central 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: 1 CR: 1/2
This course will give students an analytical perspective on AP United States Government and Politics incorporating World History Studies TEKS (11-12) #4150

This advanced course in American history explores ideas, concepts, interpretation, and movements in American history from the early settlement of the Americas to the present. Broad themes of the course include the creation and evolution of political institutions, the role of America in the world, the development of the American economy, and the way in which the American people have lived. This course may be taken in place of the United States History Studies TEKS Dual (11-12) #4155

This course continues to focus on opportunities for students to expand their speaking and listening comprehension skills. Students continue to work towards proficiency in speaking, listening, reading, and writing skills. Students have the opportunity to work in pairs and small groups as well as role-play real-life situations using the target language.

PR: None
SEM: 2 CR: 1

Spanish Level 2 Pre-AP for Spanish Speakers (9-12) #5737
This course is for students who understand and speak some Spanish at a 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.
PR: Language Survey and Placement Test
SEM: 2 CR: 1

Languages Other Than English - Level 3 Pre-AP (9-12)
French #5914
German #5924
Spanish #5745
Spanish M #5746
Spanish Dual #5744
Spanish Dual M #5762

Languages Other Than English - Level 4 AP Language & Culture (9-12)
French #5915
German #5926
Spanish M #5757
Spanish M #5759

This course will give students an analytical perspective on AP United States Government and Politics incorporating United States History Studies TEKS M (11-12) #4451

This course continues to focus on opportunities for students to expand their speaking and listening comprehension skills. Students continue to work towards proficiency in speaking, listening, reading, and writing skills. Students have the opportunity to work in pairs and small groups as well as role-play real-life situations using the target language.

PR: None
SEM: 1 CR: 1/2

AP United States History incorporating United States History Studies TEKS (11-12) #4150
AP United States History incorporating United States History Studies TEKS Dual (11-12) #4155
AP United States History incorporating United States History Studies TEKS M (11-12) #4158

This course continues to focus on opportunities for students to expand their speaking and listening comprehension skills. Students continue to work towards proficiency in speaking, listening, reading, and writing skills. Students have the opportunity to work in pairs and small groups as well as role-play real-life situations using the target language.

PR: None
SEM: 2 CR: 1

Languages Other Than English - Level 1 (9-11)
French #5911
German #5920
Spanish #5720
Spanish M #5721

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 as well as role-play real-life situations using the target language.

PR: None
SEM: 2 CR: 1

Languages Other Than English - Level 2 Regular (9-12)
French #5912
German #5922
Spanish #5730
Spanish M #5731

This course continues to focus on opportunities for students to expand their speaking and listening comprehension skills in addition to developing their written and reading comprehension skills. Students continue to study the culture, the people and their customs. Students will continue to role-play and perform dialogues/skits in a variety of everyday situations and topics using the target language.

PR: 70 in Level 1 or 80 or higher on the Credit by Exam
SEM: 2 CR: 1

Languages Other Than English - Level 2 Pre-AP (9-12)
French #5913
German #5923
Spanish #5735
Spanish M #5736

This course exceeds the Level 2 requirements by including many independent activities requiring performance in the target language. The students will continue to refine the four modes of communication by being exposed to an enriched and accelerated curriculum.

PR: 90 or higher in Level 1 recommended or 90 or higher on the Credit-by-Exam
SEM: 2 CR: 1

Please Note:
Students will have the opportunity to enroll in several levels of language classes from 1 - VI 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.

AP United States Government and Politics incorporating United States Government TEKS (11-12) #4450
AP United States Government and Politics incorporating United States Government TEKS M (11-12) #4451
AP United States Government and Politics incorporating United States Government TEKS Dual (11-12) #4456

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. This course may be used to meet the Government requirement for graduation.

PR: None
SEM: 1 CR: 1/2

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.

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. French, German and Spanish courses consistently use the four modes of communication: speaking, listening, reading and writing. Latin is a classical language where great emphasis is placed on the skill of reading and writing. ASL is a performance-based language; students will develop their signing skills in authentic, real-world situations. Concept-based curriculum is enhanced with the integration of the five Cs of: Communication, Cultures, Connections, Comparisons, and Communities. The Texas Essential Knowledge and Skills for Languages Other Than English (TEKS for LOTE) are the foundation of all Northside ISD International Languages curriculum.

Languages Other Than English - Level 1 (9-11)
French #5911
German #5920
Spanish #5720

Spanish M #5721
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 as well as role-play real-life situations using the target language.

PR: None
SEM: 2 CR: 1

Languages Other Than English - Level 2 Regular (9-12)
French #5912
German #5922
Spanish #5730
Spanish M #5731

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/skits in a variety of everyday situations and topics using the target language.

PR: 70 in Level 1 or 80 or higher on the Credit by Exam
SEM: 2 CR: 1

Languages Other Than English - Level 2 Pre-AP (9-12)
French #5913
German #5923
Spanish #5735
Spanish M #5736

This course exceeds the Level 2 requirements by including many independent activities requiring performance in the target language. The students will continue to refine the four modes of communication by being exposed to an enriched and accelerated curriculum.

PR: 90 or higher in Level 1 recommended or 90 or higher on the Credit-by-Exam
SEM: 2 CR: 1

Please Note:
Students will have the opportunity to enroll in several levels of language classes from 1 - VI 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.
Languages Other Than English - Level 5 AP Literature & Culture (9-12)
Spanish #5767
Spanish M #5768
This course will integrate the College Board and Northside ISD curriculum in order to prepare students for the Advanced Placement Literature and Culture exam. Several authors and their works will be discussed and analyzed. Group and independent activities will be utilized to facilitate intensive student use of the target language in all aspects of the course. Upon successful completion of the Advanced Placement exam, students may be eligible to receive several hours of college credit.
PR: 80 or higher in 4 AP recommended SEM: 2 CR: 1

Languages Other Than English - Level 6 Honors (10-12)
Spanish #5775
Spanish M #5774
Students in 6 Honors will make connections with other disciplines, research to expand cultural knowledge from a variety of Spanish-speaking cultures, and incorporate community-based learning activities in all the target language.
PR: 80 or higher in level 5 AP recommended SEM: 2 CR: 1

Languages Other Than English - Latin Level 1 (9-11) #5940
This course offers the students the ability to read Latin phrases and sentences. Vocabulary and grammatical structures are introduced within the context of the readings. Students are exposed to Roman history and culture.
PR: None SEM: 2 CR: 1

Languages Other Than English - Latin Level 2 (9-12) #5942
This course offers the students the opportunity to continue developing their reading skills in Latin while at the same time increasing their knowledge of grammatical structures. Additional vocabulary is learned within the context of the readings. There is more in-depth study of Roman culture and history.
PR: 70 in Latin 1 or 80 or higher in Latin 1 Credit by Exam SEM: 2 CR: 1

Languages Other Than English - Latin Level 2 Pre-AP (9-12) #5943
The Latin 2 Honors course follows the same material as the Latin 2 regular. The curriculum is enhanced with additional projects and in-depth studies of the material covered.
PR: 80 in Latin 1 recommended or 90 or higher in Latin 1 Credit by Exam SEM: 2 CR: 1

Languages Other Than English - Latin Level 3 Pre-AP (10-12) #5944
This course emphasizes more difficult aspects of grammar with an expansion of vocabulary. The study of Latin prose and poetry will be integrated with related topics of culture and civilization. Reading and writing skills will be emphasized.
PR: 80 in Latin 2 recommended or 90 or higher on the Credit by Exam SEM: 2 CR: 1

Languages Other Than English - Latin Level 4 AP (11-12) #5947
This course will continue an emphasis on difficult aspects of grammar with expanded vocabulary. The study of Latin poetry and prose will be integrated with related topics of culture and civilization. Students will read, translate, and interpret primary sources of a variety of Latin poets.
PR: 80 or higher in Latin 3 recommended or 90 or higher on the Credit by Exam SEM: 2 CR: 1

Languages Other Than English - American Sign Language ASL Level 1 (9-12) #5961 - 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, descriptive 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 meanings in ASL using perceptive and signing skills.
PR: None SEM: 2 CR: 1

Languages Other Than English - American Sign Language ASL Level 2 #5962 - OFFERED AT MARSHALL HS ONLY
This course builds on the language skills acquired in ASL 1. Students will develop their signing skills in real-world, authentic 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 perceptive skills are mastered and taken to a new level.
PR: 70 or higher in ASL 1 SEM: 2 CR: 1

Languages Other Than English - American Sign Language ASL Level 2 Honors #5965 - OFFERED AT MARSHALL HS ONLY
This course builds on the language skills acquired in ASL 1. Students will develop their signing skills in real-world, authentic 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 perceptive skills are mastered and taken to a new level. The curriculum is enhanced with additional projects and in-depth studies of the material covered.
PR: 80 or higher in ASL 1 recommended SEM: 2 CR: 1

Languages Other Than English - American Sign Language ASL Level 3 Honors #5966 - 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 communicate in daily living situations. This level of signing is highly rigorous and focuses more on the use of non-manual markers and classifiers, rather than the use of manual signs. Students will learn to imply and sign essential ASL skills through elaborate conversations involving and using their signing and perceptive skills.
PR: 80 or higher in ASL 2 recommended SEM: 2 CR: 1

Languages Other Than English - American Sign Language ASL Level 4 Honors #5964 - OFFERED AT MARSHALL HS ONLY
This course extends beyond the ASL III program for students to communicate at an intermediate level. Students use knowledge of the language, including grammar and culture to socialize and communicate. The use of Classifiers and Non-Manual Markers are further elaborated and incorporated into ASL syntax and grammatical structures.
PR: 80 or higher in ASL 3H recommended SEM: 2 CR: 1
Health Education

Health Education (9-12)
Health Education .5 #5010
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

Physical Education Substitutions

Athletics (9-12) - (PE Credit)
(Check with counselors for course offerings)
Numerous athletic programs under UIL affiliation are offered for students in the high schools. Students who participate in these UIL sports may earn a maximum of 4 units in P.E. credit in these courses. Since these athletic teams compete with other 6A schools, students must try out for the teams by demonstrating strong ability in the skills needed for field performance.
PR: Tryout

Principles of Dance I (9-12) - (PE Credit)
(Class meets during the regular school day)
Principles of Dance I #5595
Principles of Dance I is designed to introduce students to various mediums of dance, including ballet, modern dance, tap, jazz, musical theatre, and world dance forms. 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. 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. No prior dance training is required to enroll in Principles of Dance Level I.
PR: None
SEM: 2 CR: 1 - PE

What's In Your Go Center?

Internet Access for Research
Career Information
*Books, Magazines, Reference Guides
Career Interest Inventories
*Choices360 and Career Cruising
Military Information
*Recruiters on the campus during the year.
Videos:
*Careers, Job Search, Colleges, SAT Prep
Registration Packets:
*SAT/ACT, Prep Course (SAT), THEA
Catalogs:
*Colleges, Community Colleges, Universities
Applications:
*Admissions Applications available here.
*Texas Common Application
*Community College Application
*Applications can be downloaded from the internet.
Information on Apprenticeships

Health Education

PE Substitution - 100 minutes of Moderate to Vigorous Physical Activity (PE Credit)
For students who meet PE substitution credit of 100 minutes per week of moderate to vigorous physical activity before school and/or after school may be awarded .5 credit of PE as defined for extra-curricular activities. The courses in which this rule may be applied are:

- Dance Performance Ensemble I #5559
- Dance Performance Ensemble II (Pep) #5560
- Dance Performance Ensemble II (Dance) #5561
- Dance Performance Ensemble II (Drill) #5562
- Ballet I (Brandeis HS only) #5563
- Ballet II (Brandeis HS only) #5537
- Jazz I (Stevens HS only) #5601
- Jazz II (Stevens HS only) #5602
- Modern Dance I (Brennan HS only) #5599
- Modern Dance II (Brennan HS only) #5600
- Band Flags I #5569
- Band Flags II #5571
- Concert Band I #5577
- Concert Band II #5578
- Symphonic Band I #5575
- Symphonic Band II #5576

JROTC—PE Substitution (9-12)
- Air Force Science I #5621
- Navel Science I #5611

Spirit Teams
Performance/Ensemble I, Pep Squad (9-12) #6839
Performance/Ensemble II, Pep Squad (10-12) #6840
Performance/Ensemble III, Pep Squad (11-12) #6841
Performance/Ensemble IV, Pep Squad (12) #6842
Performance/Ensemble II, Dance Team (10-12) #6844
Performance/Ensemble III, Dance Team (11-12) #6845
Performance/Ensemble IV, Dance Team (12) #6846
Performance/Ensemble II, Drill Team (10-12) #6848
Performance/Ensemble III, Drill Team (11-12) #6849
Performance/Ensemble IV, Drill Team (12) #6850
Performance/Ensemble II, Cheer (10-12) #6852
Performance/Ensemble III, Cheer (11-12) #6853
Performance/Ensemble IV, Cheer (12) #6854

All ten comprehensive high schools provide spirit organizations whose major functions are to serve as spirit, service, and performing groups for their schools. Students must meet eligibility requirements to participate. No prior experience is required to enroll in Pep Squad. Students must tryout for Cheer, Dance & Drill Teams. Participation includes attendance at all designated activities, summer camp, practices, competitions, clinics, and enrollment in the required class. The required class involves a physical education and / or fine arts equivalent curriculum that includes fitness, leadership skills, beginning to advanced cheer and dance skills, etc.
PR: Pep Squad - None
PR: Cheer, Dance/Drill Tryout – Tryout

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Internet Access for Research
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Videos:
*Careers, Job Search, Colleges, SAT Prep
Registration Packets:
*SAT/ACT, Prep Course (SAT), THEA
Catalogs:
*Colleges, Community Colleges, Universities
Applications:
*Admissions Applications available here.
*Texas Common Application
*Community College Application
*Applications can be downloaded from the internet.
Information on Apprenticeships

Fine Arts

Art

Art I (9-12) #6941
High School Art I is Concept-based. Curriculum units include drawing, painting, printmaking, three dimensional art, fiber, digital art and media, and compositions of mixed media. Students work toward mastery level in originality and creativity. No prior art experience is required to be eligible for this course.
PR: None
SEM: 2 CR: 1

Art II (9-12) #6946
High School Art II is Concept-based and is designed to build on the experience of the Curriculum units of Art I. Assignments and student problem solving are more complex in drawing, painting, printmaking, three dimensional art, fiber, digital art and media, and compositions of mixed media. Artists, artist styles, and periods of art history become a focus, as does extensive creativity, imagery, individualization, and gallery display.
PR: Art I (MS Art 3)/ Student Portfolio
SEM: 2 CR: 1

Art III (10-11) #6947
High School Art III is Concept-based and provides for opportunities in creative expression on a more advanced level than those of Art I and Art II. Emphasis continues to be placed on understanding and recognition of artists, artist styles, and periods of art history. The significance and value of created art is accentuated along with extended creativity and portfolio development.
PR: Art II/Student Portfolio
SEM: 2 CR: 1

Art IV (11-12) #6948
High School Art IV is Concept-based and is an advanced course designed to expand on the experiences and skills developed in Art I, Art II, and Art III. Rigorous assignments and student problem solving are individualized to accommodate students’ desires to further explore media and ideas of their own choice. Student portfolios and gallery experiences are developed extensively.
PR: Art III/Student Portfolio
SEM: 2 CR: 1

Art III, Drawing (10-12) #6953
High School Art III Drawing is Concept-based and is designed to build on the experiences of the Curriculum units of previous art courses. Assignments and student problem solving are more complex with concentration in drawing, drawing types, drawing techniques, and the various drawing media. Drawing as used by artists, as used in artist styles, and as observed in periods of art history become a focus. Extensive creativity, imagery, individualization, and gallery display in the drawing media are the expectations.
PR: Art II
SEM: 2 CR: 1

Art III, Painting (10-12) #6973
High School Art III Painting is Concept-based and is designed to build on the experiences of the Curriculum units of previous art courses. Assignments and student problem solving are more complex with concentration in painting, painting styles, painting techniques and the various paint media. Painting artists, painting artist styles, and periods of art history involved with painting become a focus. Extensive creativity, imagery, individualization, and gallery display in the painting media are the expectations.
PR: Art II
SEM: 2 CR: 1
Art III, Sculpture (10-12) #6963
High School Art III Sculpture is Concept-based and is designed to build on the experiences of the Curriculum units of previous art courses. Assignments and student problem solving are more complex with concentration in sculpture, sculpture types, sculpture techniques and the various sculpture media. Sculpture artists, sculpture artist styles, and periods of art history involved with sculpture become a focus. Extensive creativity, imagery, individualization, and gallery display in the sculpture media are the expectations.
PR: Art II SEM: 2 CR: 1

Art III, Ceramics (10-12) #6993
High School Art III Ceramics is Concept-based and is designed to build on the experiences of the Curriculum units of previous art courses. Assignments and student problem solving are more complex with concentration in ceramics, ceramics types, ceramic building methods— including wheel throwing, glazing techniques and the various clay and glaze media. Ceramic artists, ceramic artist styles and purposes, and periods of art history involved with ceramics become a focus. Extensive creativity, imagery, individualization, and gallery display in the ceramic media are the expectations.
PR: Art II SEM: 2 CR: 1

Art III, Digital Art and Media (10-12) #6983
High School Art III Digital Art and Media is Concept-based and is designed to build on the experiences of the Curriculum units of previous art courses. Assignments and student problem solving are more complex with concentration in digital art and media, digital art and media creation methods, and digital art and media various software usage. Digital art and media artists, digital art and media artist styles, and periods of art history involved with digital art and media become a focus. Extensive creativity, imagery, individualization, and gallery display in digital art and media are the expectations.
PR: Art II SEM: 2 CR: 1

Art IV, Drawing (11-12) #6955
High School Art IV Drawing is Concept-based and is designed to build on the experiences of the Curriculum units of Art III Drawing. Assignments and student problem solving are extremely complex requiring considerable concentration to achieve the high level of competency expected. Expanding both depth and breadth in drawing, drawing types, drawing techniques, and various drawing media is a portfolio requirement. Drawing as used by artists, as used in artist styles, and as observed in periods of art history become a springboard for personal inspiration for more extensive creativity, imagery, and individualization. Frequent gallery displays in the various drawing media are required.
PR: Art III, Drawing II SEM: 2 CR: 1

Art IV, Painting (11-12) #6974
High School Art IV Painting is Concept-based and is designed to build on the experiences of the Curriculum units of Art III Painting. Assignments and student problem solving are extremely complex requiring considerable concentration to achieve the high level of competency expected. Expanding both depth and breadth in painting, painting styles, painting techniques and the various paint media is a portfolio requirement. Painting artists, painting artist styles, and periods of art history involved with painting become a springboard for personal inspiration for more extensive creativity, imagery, and individualization. Frequent gallery displays in the various painting media are required.
PR: Art III, Painting II SEM: 2 CR: 1

Art IV, Sculpture (11-12) #6964
High School Art IV Sculpture is Concept-based and is designed to build on the experiences of the Curriculum units of Art III Sculpture. Assignments and student problem solving are extremely complex requiring considerable concentration to achieve the high level of competency expected. Expanding both depth and breadth in sculpture, sculpture types, sculpture techniques and the various sculpture media is a portfolio requirement. Sculpture artists, sculpture artist styles, and periods of art history involved with sculpture become a springboard for personal inspiration for more extensive creativity, imagery, and individualization. Frequent gallery displays showcasing various sculpture are required.
PR: Art III, Sculpture II SEM: 2 CR: 1

Art IV, Ceramics (11-12) #6994
High School Art IV Ceramics is Concept-based and is designed to build on the experiences of the Curriculum units of Art III Ceramics. Assignments and student problem solving are extremely complex requiring considerable concentration to achieve the high level of competency expected. Expanding both depth and breadth in ceramics, ceramics types, ceramic building methods— including wheel throwing, glazing techniques and the various clay and glaze media is a portfolio requirement. Ceramic artists, ceramic artist styles and purposes, and periods of art history involved with ceramics become a springboard for personal inspiration for more extensive creativity, imagery, and individualization. Frequent gallery displays showcasing various ceramics are required.
PR: Art III, Ceramics II SEM: 2 CR: 1

Art IV, Digital Art and Media (11-12) #6984
High School Art IV Digital Art and Media is Concept-based and is designed to build on the experiences of the Curriculum units of Art III Digital Art and Media. Assignments and student problem solving are extremely complex requiring considerable concentration to achieve the high level of competency expected. Expanding both depth and breadth in digital art and media, digital art and media types, digital art and media creation methods, and digital art and media various software usage is a portfolio requirement. Digital art and media artists, digital art and media artist styles, and periods of art history involved with digital art and media become a springboard for personal inspiration for more extensive creativity, imagery, and individualization. Frequent gallery displays showcasing various digital art and media are required.
PR: Art III, Digital Art and Media SEM: 2 CR: 1

Advanced Placement

Art History AP (10-12) #6985
AP Art History challenges students to an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine and critically analyze major forms of artistic expression. AP Art History provides students an independent track of study that is rigorous and academically challenging. Students complete course with the AP Art History exam. Course availability depends upon teacher certification.
PR: Core/Art/Student Portfolio/Student Interest SEM: 2 CR: 1

Band

Prep Band I-IV (9-12) #6131
This course is designed for students who are learning to play a band instrument for the first time OR for students that are in the early stages of learning to play an instrument. Little or no prior experience is required for this course. Campus band director will assess student skill ability for this class. Basic music fundamentals include tone, rhythm, and technique development. Students are eligible to participate in campus concert performances and UIL performance assessments and will perform music literature from various music genres. Enrollment in this course constitutes some agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.
PR: Audition/Rubric SEM: 2 CR: 1

Art Drawing Portfolio AP (10-12) #6944
AP Portfolio, Studio Art Drawing enables students to develop in-depth personal styles and themes in original creation of drawing artworks. Portfolio students address three components within a basic three-section structure: Quality Section, Concentration Section, and Breadth Section. Students are required to show competence in high levels of commitment and rigor throughout the created body of artwork. Students complete course with submission of digital AP portfolio in Studio Art Drawing. Course availability depends upon teacher certification.
PR: Art/Student Portfolio/Student Interest SEM: 2 CR: 1

Art 2-D Portfolio AP (10-12) #6988
AP Portfolio, 2-D Design enables students to develop in-depth personal styles and themes in original creation of 2-D Design artworks. Portfolio students address three components within a basic three-section structure: Quality Section, Concentration Section, and Breadth Section. Students are required to show competence in high levels of commitment and rigor throughout the created body of artwork. Students complete course with submission of digital AP portfolio in 2-D Design. Course availability depends upon teacher certification.
PR: Art/Student Portfolio/Student Interest SEM: 2 CR: 1

Dual Credit

Art Appreciation D (9-12) - MARSHALL, STEVENS, AND WARREN HS ONLY #6995
Students take Dual Credit Art Appreciation on their high school campus. Dual Credit Art Appreciation students work in various art media to explore the purposes and processes in the visual arts including evaluation of multiple selected works. Content is college level and college paced. Students are required to show competence in high levels of commitment and rigor throughout the year of study.
PR: Student Interest SEM: 2 CR: 1
This course is designed to build upon student skills for playing a band instrument acquired from previous courses of study. Increased performance skills will include increased music notation, technical ability, music expression, and increased precision regarding basic fundamentals for performance. All genres of music will be performed. This course includes development of skills applied to indoor concerts as well as the fall seasonal marching band performances. Minimum of 4 hours weekly outside the school day are required for rehearsals to adequately address performance requirements for the course. UIL performance assessments and student eligibility for Texas All-State Ensembles are included in this course work. Scholarship opportunities are available. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.

PR: Audition/Rubric                      SEM: 2  CR: 1

Symphonic Band I (9-12) #6101
Symphonic Band II (10-12) #6102
Symphonic Band III (11-12) #6103
Symphonic Band IV (12) #6104

This course is designed for students to develop a mastery level for playing a band instrument acquired from previous courses of study. Students will acquire advanced skills needed to perform very complex music literature. Students will develop strong leadership skills, evoke high levels of expression, and perform literature of all genres and ensemble instrumentation. This course includes development of skills applied to indoor concerts as well as the fall seasonal marching band performances. Minimum of 4 hours weekly outside the school day are required for rehearsals to adequately address performance requirements for the course. UIL performance assessments and student eligibility for Texas All-State Ensembles are included in this course work. Scholarship opportunities are available. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.

PR: Audition/Rubric                      SEM: 2  CR: 1

Band Flags I (9-12) #6855
Band Flags II (10-12) #6866
Band Flags III (11-12) #6867
Band Flags IV (12) #6868

(These courses are not available at Health Careers H.S.)

This course is designed for students interested in developing skills used in colorguard units that perform with marching bands AND skills used for development of indoor winter guard presentations. Students will develop ability to perform all genres of dance and will have the opportunity to perform in both ensemble and solo settings during the fall and spring semesters. Students receive fine arts and PE credit for this course.

PR: Audition/Rubric                      SEM: 2  CR: 1 (PE and/or Fine Arts Credit)

Jazz Band I (9-12) NOT AVAILABLE AT HCCHS #6141
Jazz Band II (10-12) NOT AVAILABLE AT HCCHS #6142
Jazz Band III (11-12) NOT AVAILABLE AT HCCHS #6143
Jazz Band IV (12) NOT AVAILABLE AT HCCHS #6144

This course is designed as an enrichment opportunity for students to apply instrumental music skills to the jazz medium. Students will study jazz history, learn to improvise, and perform jazz literature of all styles. With the exception of rhythm section instruments required for the jazz course (piano, bass, rhythm guitar, and trapset), all students must be a concurrent member of the Prep, Concert, or Symphonic Band. Sound music fundamentals are a pre-requisite for success in this course. Texas All-State Ensembles and large scholarship opportunities are included in this course work. Students will perform extensively in public venues. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.

PR: Audition/Rubric                      SEM: 2  CR: 1

Instrumental Ensemble I (9-12) #6310
Instrumental Ensemble II (10-12) #6311
Instrumental Ensemble III (11-12) #6312
Instrumental Ensemble IV (12) #6314

This series of courses are designed for students interested in developing extensive detailed performance applications on a specific music instrument. Students work independently at their own pace, in small ensemble settings of unique instrumentation (i.e. brass choir, woodwind choirs, etc.) and apply skills developed in concert, recital, and other various performance venues. Student audio portfolios are created, university audition recitals are developed, and audition preparations for Texas all-state are all part of the curriculum. In addition, students desiring to learn to play more than one instrument can be enrolled in this class for individualized instruction. Each course builds upon the student's skill level developed in previous courses of study.

PR: Audition/Rubric                      SEM: 2  CR: 1

Guitar I (9-12) #6381
Guitar II (10-12) #6382
Guitar III (11-12) #6384
Guitar IV (12) #6385

(These courses offered at Brennan and Stevens only.)

This series of courses are designed for students interested in learning to play guitar. Each course builds upon skills learned in the previous course(s) of study. No prior experience is required for this course. Course is available only on those campuses where a certified instructor is assigned. Campus music instructor will assess student skill ability for each class. Basic music fundamentals include music notation, rhythm, counting, and guitar performance applications. Students will study and rehearse music of all styles. Opportunity for concert performances is included with each course. Enrollment in this course constitutes some agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.

PR: Audition/Rubric                      SEM: 2  CR: 1

Choir
Choir I Treble (9-12) #6451
Choir II Treble (10-12) #6452
Choir III Treble (11-12) #6453
Choir IV Treble (12) #6454

This course develops skills in proper vocal production and music reading. Students learn to improve their singing voice, sight-reading and ensemble skills through performance participation. Choral literature will include all genres of vocal music written for the treble voice. Each level of this course, will build on the foundation of the previous course. Students will develop in confidence and collaborative skills through performance opportunities in solo, small and larger vocal ensembles. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.

PR: Audition/Rubric                      SEM: 2  CR: 1

Choir I Advanced Treble (9-12) #6461
Choir II Advanced Treble (10-12) #6462
Choir III Advanced Treble (11-12) #6463
Choir IV Advanced Treble (12) #6464

This course develops the most advanced treble musicians and gives students the opportunity to improve their skills in vocal production, sight-reading, and ensemble participation. Choral literature will include secular and sacred music from all times and periods of music in the treble range. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.

PR: Audition/Rubric                      SEM: 2  CR: 1

Choir I Tenor Bass (9-12) #6501
Choir II Tenor Bass (10-12) #6502
Choir III Tenor Bass (11-12) #6503
Choir IV Tenor Bass (12) #6504

This course develops skills in proper vocal production and music reading. Students learn to improve their singing voice, sight-reading, and ensemble skills through performance participation. Choral literature will include all genres of vocal music written for their tenor bass voice range. Each level of this course, will build on the foundation of the previous course. Students will develop confidence and collaborative skills through performance opportunities in solo, small and large vocal ensembles. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.

PR: Audition/Rubric                      SEM: 2  CR: 1

Choir I Mixed (9-12) #6431
Choir II Mixed (10-12) #6432
Choir III Mixed (11-12) #6433
Choir IV Mixed (12) #6434

This course develops the most advanced choral musicians and gives students the opportunity to improve their skills in vocal production, sight-reading, and ensemble participation. Choral literature will include secular and sacred music from all times and periods of music for all vocal ranges. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular and extra-curricular requirements.

PR: Auditions/Rubric                    SEM: 2  CR: 1

See Counselor for course availability
Vocal Ensembles I (9-12) #6511
Vocal Ensembles II (10-12) #6512
Vocal Ensembles III (11-12) #6513
Vocal Ensembles IV (12) #6514
This course develops additional skills of advanced students with strong music fundamentals. Students will explore non-traditional ensemble techniques and literature of all styles. Size and composition of each group is designed to meet the requirements of the music being studied. Ensembles will consist of madrigals, vocal jazz, show choirs and other contemporary music genres.
PR: Concurrent enrollment in choir/Audition/Rubric SEM: 2 CR: 1

Dance

Principles of Dance I (9-12) #6811
Principles of Dance II (10-12) #6812
Principles of Dance III (11-12) #6813
Principles of Dance IV (12) #6814
Principles of Dance I is designed to introduce students to various mediums of dance, including ballet, modern dance, tap, jazz, musical theatre, and world dance forms. 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. Principles of Dance I is a general dance survey course and forms the foundation for Principles of 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 Principles of Dance Level I.
PR for Level I: None SEM: 2 CR: 1

Ballet I (9-12) #6821
Ballet II (10-12) #6822
Ballet III (11-12) #6823
Ballet IV (12) #6824
(These courses offered at Brandeis H.S. only.)
This course will develop self-discipline and healthy bodies while applying ballet technique and dance safely. 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 barre exercises and center combinations. Students will apply ballet technique, use ballet vocabulary, and perform ballet etiquette and dance safety and will explore technology applications for jazz dance movement. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extracurricular requirements.
PR: Audition SEM: 2 CR: 1

Modern Dance I (9-12) #6831
Modern Dance II (10-12) #6832
Modern Dance III (11-12) #6833
Modern Dance IV (12) #6834
(These courses offered at Brennan H.S. only.)
This course will develop the students' ability to recognize 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 technique and dance safety and will explore technology applications for modern/contemporary dance movement. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extracurricular requirements. PR: Audition SEM: 2 CR: 1

Jazz Dance I (9-12) #6835
Jazz Dance II (10-12) #6836
Jazz Dance III (11-12) #6837
Jazz Dance IV (12) #6838
(These courses offered at Stevens H.S. only.)
This course will develop the students' ability to recognize major jazz dance works, styles, and dance artists in history. Students will execute jazz dance technique, use jazz dance vocabulary, and perform memorized movement exercises, combinations, and created movement sequences or studies. Students will apply jazz dance technique and dance safety and will explore technology applications for jazz dance movement. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extracurricular requirements.
PR: Audition SEM: 2 CR: 1

Principles of Dance I is designed to introduce students to various mediums of dance, including ballet, modern dance, tap, jazz, musical theatre, and world dance forms. 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. Principles of Dance I is a general dance survey course and forms the foundation for Principles of 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 Principles of Dance Level I.
PR: Audition/Rubric SEM: 2 CR: 1

Modern Dance I (9-12) #6831
Modern Dance II (10-12) #6832
Modern Dance III (11-12) #6833
Modern Dance IV (12) #6834
(These courses offered at Brennan H.S. 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 technique and dance safety and will explore technology applications for modern/contemporary dance movement. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extracurricular requirements. PR: Audition SEM: 2 CR: 1

Jazz Dance I (9-12) #6835
Jazz Dance II (10-12) #6836
Jazz Dance III (11-12) #6837
Jazz Dance IV (12) #6838
(These courses offered at Stevens H.S. only.)
This course will develop the students' ability to recognize major jazz dance works, styles, and dance artists in history. Students will execute jazz dance technique, use jazz dance vocabulary, and perform memorized movement exercises, combinations, and created movement sequences or studies. Students will apply jazz dance technique and dance safety and will explore technology applications for jazz dance movement. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extracurricular requirements.
PR: Audition SEM: 2 CR: 1

Orchestra

Orchestra I Prep (9-12) #6231
Orchestra II Prep (10-12) #6232
Orchestra III Prep (11-12) #6233
Orchestra IV Prep (12) #6234
This course is designed for students who are learning to play a string instrument (violin, viola, cello, bass) for the first time OR for students that are in the early stages of learning to play an instrument. Little or no prior experience is required for this course. Campus orchestra director will assess student skill ability. Basic music fundamentals include tone, rhythm, and technique development. Students are eligible to participate in campus concert performances and UIL performance assessments and will perform music literature from various music genres. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.
PR: Audition/Rubric SEM: 2 CR: 1

Orchestra I Prep (9-12) #6231
Orchestra II Prep (10-12) #6232
Orchestra III Prep (11-12) #6233
Orchestra IV Prep (12) #6234
This course is designed for students who are learning to play a string instrument (violin, viola, cello, bass) for the first time OR for students that are in the early stages of learning to play an instrument. Little or no prior experience is required for this course. Campus orchestra director will assess student skill ability for this class. Basic music fundamentals include tone, rhythm, and technique development. Students are eligible to participate in campus concert performances and UIL performance assessments and will perform music literature from various music genres. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.
PR: Audition/Rubric SEM: 2 CR: 1

Orchestra I Prep (9-12) #6231
Orchestra II Prep (10-12) #6232
Orchestra III Prep (11-12) #6233
Orchestra IV Prep (12) #6234
This course is designed for students who are learning to play a string instrument (violin, viola, cello, bass) for the first time OR for students that are in the early stages of learning to play an instrument. Little or no prior experience is required for this course. Campus orchestra director will assess student skill ability for this class. Basic music fundamentals include tone, rhythm, and technique development. Students are eligible to participate in campus concert performances and UIL performance assessments and will perform music literature from various music genres. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.
PR: Audition/Rubric SEM: 2 CR: 1

Orchestra I Prep (9-12) #6231
Orchestra II Prep (10-12) #6232
Orchestra III Prep (11-12) #6233
Orchestra IV Prep (12) #6234
This course is designed for students who are learning to play a string instrument (violin, viola, cello, bass) for the first time OR for students that are in the early stages of learning to play an instrument. Little or no prior experience is required for this course. Campus orchestra director will assess student skill ability for this class. Basic music fundamentals include tone, rhythm, and technique development. Students are eligible to participate in campus concert performances and UIL performance assessments and will perform music literature from various music genres. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.
PR: Audition/Rubric SEM: 2 CR: 1

Mariachi

Mariachi I Prep (9-12) #6351
Mariachi II Prep (10-12) #6352
Mariachi III Prep (11-12) #6353
Mariachi IV Prep (12) #6354
(These courses offered at Holmes & Jay H.S. only.)
This course is designed for students who want to learn to play an instrument used in mariachi. Little or no prior experience is required for this course. Instruments taught in this class include guitar, vihuela, and guitar. Trumpet, violin, and vocal students that are beginners are encouraged to enroll in a prep band or choir class to learn the basic music fundamentals. Campus orchestra director will assess student skill ability. Basic music fundamentals include music reading, rhythm, and technique development needed for each instrument. Stage presence, student confidence, and performance preparation are emphasized. Students are eligible to participate in some campus concert venues. Music of all mariachi genres is explored. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.
PR: Audition/Rubric SEM: 2 CR: 1

Mariachi I Intermediate (9-12) #6355
Mariachi II Intermediate (10-12) #6356
Mariachi III Intermediate (11-12) #6357
Mariachi IV Intermediate (12) #6358
(These courses offered at Holmes & Jay H.S. only.)
This course is designed for students who want to learn to play an instrument used in mariachi. Little or no prior experience is required for this course. Instruments taught in this class include guitar, vihuela, and guitar. Trumpet, violin, and vocal students that are beginners are encouraged to enroll in a prep band or choir class to learn the basic music fundamentals. Campus orchestra director will assess student skill ability. Basic music fundamentals include music reading, rhythm, and technique development needed for each instrument. Stage presence, student confidence, and performance preparation are emphasized. Students are eligible to participate in some campus concert venues. Music of all mariachi genres is explored. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.
PR: Audition/Rubric SEM: 2 CR: 1

See Counselor for course availability

2017-2018 High School Course Catalog 35
This course is designed for students to develop a mastery level for playing a string instrument acquired from previous courses of study. Students will acquire advanced skills needed to perform very complex music literature. Students will develop strong leadership skills, evoke high levels of expression, and perform literature of all genres and ensemble instrumentation. The course will require some rehearsal time outside of the school day to prepare for various concerts. UIL performance assessments and student eligibility for Texas All-State Ensembles are included in this course work. Students are eligible for selection to perform in campus full orchestra ensemble concerts. Scholarship opportunities are numerous. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.

PR: Audition/Rubric   SEM: 2 CR: 1

Music Appreciation I (9-12) #6540
Music Appreciation IA (9-12) #6548
Music Appreciation IB (9-12) #6549

This course is designed for students interested in studying the history of music, major time periods in which music developed as an art form, and the composers that impacted music literature of the world. Students will listen to, identify, and analyze major music compositions and trace the impact of such compositions through the development of world cultures. Students will also connect the creation and evolution of music instrument construction to various cultures around the world. No prior music knowledge is required to enroll in this course.

PR: NONE   SEM: 2 CR: 1

Music Theory I (9-12) #6531
Music Theory II (10-12) #6532
Music Theory AP (9-12) #6537

This series of courses are designed for students interested in developing music notation writing skills and composition skills. Students will develop an understanding of basic music theory construction of melodic and harmonic lines of music as well as chord construction. Each course builds upon skills developed in previous courses. Students analyze and compose lines of music. Piano keyboard skills are used for theory applications. Applied Music Theory is offered on campuses where a certified AP Music Theory Instructor is available. Students completing Music Theory I are eligible for AP Music Theory OR music instructors can recommend students with strong music backgrounds for AP Music Theory without completion of prior Music Theory courses. Student compositions are performed by various ensembles. Scholarship awards are available for recognized compositions. Students are eligible to acquire college credit through the College Board AP Music Theory Exam process.

PR: Teacher Recommendation/Rubric    SEM: 2 CR: 1

Theatre Arts I (9-12) #6631
Theatre Arts II (10-12) #6632
Theatre Arts III (11-12) #6633
Theatre Arts IV (12) #6634

Theatre Arts I is offered to students who are new to high school theatre. Theatre Arts I students will learn an appreciation for Theatre as an art form while examining both the acting and technical aspects of theatre. The interdependence of theatrical elements, the collaborative process, and creative problem solving skills will be employed as students begin to identify the impact of theatre on contemporary society, relate historical and cultural influences on theatre, appreciate theatre as a reflection of life, give and receive constructive criticism, and identify career opportunities in the Theatrical Arts.

PR: None   SEM: 2 CR: 1

Technical Theatre I (9-12) #6642
Technical Theatre II (10-12) #6644
Technical Theatre III (11-12) #6645
Technical Theatre IV (12) #6646

Technical Theatre I is offered to students who have successfully completed Technical Theatre I and want to continue to build upon the skills learned in that course. Students will learn the principles of design, principles of composition, and color theory as they begin to analyze dramatic scripts and apply the design process. Advanced techniques in the building of scenery, costumes, and props and the execution of lighting and sound will be examined. Students will gain an appreciation for world cultures and their contributions to Theatre Arts. Career opportunities in Technical Theatre will be explored while students begin to prepare resumes and portfolios of their theatrical design experiences. Technical Theatre II is a project based course that will require students to practice the safe use of shop tools and materials.

PR: Technical Theatre I    SEM: 2 CR: 1

Band, Choir, Orchestra

Music Appreciation I (9-12) #6540
Music Appreciation IA (9-12) #6548
Music Appreciation IB (9-12) #6549

This course is designed for students interested in studying the history of music, major time periods in which music developed as an art form, and the composers that impacted music literature of the world. Students will listen to, identify, and analyze major music compositions and trace the impact of such compositions through the development of world cultures. Students will also connect the creation and evolution of music instrument construction to various cultures around the world. No prior music knowledge is required to enroll in this course.

PR: NONE   SEM: 2 CR: 1

Music Theory I (9-12) #6531
Music Theory II (10-12) #6532
Music Theory AP (9-12) #6537

This series of courses are designed for students interested in developing music notation writing skills and composition skills. Students will develop an understanding of basic music theory construction of melodic and harmonic lines of music as well as chord construction. Each course builds upon skills developed in previous courses. Students analyze and compose lines of music. Piano keyboard skills are used for theory applications. Applied Music Theory is offered on campuses where a certified AP Music Theory Instructor is available. Students completing Music Theory I are eligible for AP Music Theory OR music instructors can recommend students with strong music backgrounds for AP Music Theory without completion of prior Music Theory courses. Student compositions are performed by various ensembles. Scholarship awards are available for recognized compositions. Students are eligible to acquire college credit through the College Board AP Music Theory Exam process.

PR: Teacher Recommendation/Rubric    SEM: 2 CR: 1

Music Production I (9-12) #6651
Music Production II (10-12) #6652
Music Production III (11-12) #6653
Music Production IV (12) #6654

Music Production provides students with practical hands-on experiences in acting and stagecraft through the preparation and public performances of plays. This curricular laboratory for the exploration, development, and synthesis of all the elements of theatre supplement other theatre and technical theatre courses by providing opportunities for the integration and implementation of ideas, skills, and techniques acquired in those classes. This course requires a commitment of time outside the academic school day. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extracurricular requirements. This course is offered at some NISD high schools.

PR: Audition    SEM: 2 CR: 1

Technical Theatre I (9-12) #6641
Technical Theatre II (10-12) #6642
Technical Theatre III (11-12) #6643
Technical Theatre IV (12) #6644

Technical Theatre I is a course for students new to Technical Theatre. Students will be introduced to the safe use of scenery, lighting, costumes, sound, makeup, and props to effectively enhance theatrical productions. Through the design process, students will gain an appreciation for Technical Design as an art form and will recognize themselves as a creative part of a production team. Technical Theatre I students will learn to evaluate live theatre recognize the impact of live theatre on contemporary society. Technical Theatre I is a project based course that will require students to practice the safe use of shop tools and materials.

PR: None    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.

See Counselor for course availability
Aerospace Science 1 (9-12) #5621

**Musical Theatre I (9-12) #6671**
**Musical Theatre II (10-12) #6672**
**Musical Theatre III (11-12) #6673**
**Musical Theatre IV (12) #6674**

(These courses are offered at Taft H.S. only.)

Musical Theatre will expose students to a wide range of onstage performance disciplines, including acting performance, vocal performance, and dance performance. Students will receive comprehensive and rigorous instruction in varied styles of musical theatre, with special attention to the top principles of stage movement, vocal technique, choreography, acting, and characterization. Musical Theatre students are required to participate in theatrical productions. Enrollment in this course constitutes agreement to fulfill all curricular, co-curricular, and extracurricular requirements.

**PR: None**

SEM: 2 CR: 1

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**JROTC**

**Aerospace Science 1 (9-12) #5622**

**Aerospace Science 2 (10-12) #5622**

**Option 1 - (AS-200) The Science of Flight: A Gateway to New Horizons** focuses on how airplanes fly, how weather conditions affect flight, flight and the human body, and flight navigation. The course is designed to complement materials taught in math, physics, and other science-related courses and is aligned with the National Science Education Standards, the Math Standards and Expectations, and ISTE National Educational Technology Standards for Students. Option 2 - (AS-220) Cultural Studies: An Introduction to Global Awareness introduces students to the world’s cultures through the study of world affairs, regional studies, and cultural awareness. The course delves into history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns, and human rights. It looks at major events and significant figures that have shaped each region.

**PR: None**

**Aerospace Science 3 (10-12) #5623**

**Aerospace Science 4 (12) #5624**

**Option 1 - (AS-400) Management of the Cadet Corps** allows students to manage all aspects of operations during their fourth year in the Air Force Junior ROTC program. This hands-on experience affords students the opportunity to put theories from the Principles of Management textbook and previous leadership courses into practice under the guidance and supervision of the corps instructors. Planning, organizing, coordinating, directing, controlling, and decision-making are done by students. Students put into practice their communication, decision-making, personal-interaction, managerial, and organizational skills. **(LE-400)** Principles of Management exposes students to the fundamentals of management and provides them with necessary skills needed to put into practice what they have learned during their time in AFJROTC.

**PR: Aerospace Science 1**

**Option 2 - (AS-410) Survival** provides training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival. Survival also presents "good to know" information that would be useful in any situation.

**PR: Aerospace Science 1**

**Option 3- (AS-500) Aviation Honors Ground School** is the foundation for students interested in receiving a private pilot's license. The material covered is an advanced, more in-depth study of aerospace topics. When the course is completed students should be prepared to take and pass the Federal Aviation Administration (FAA) written examination.


**Drill Curriculum (Cumulative)** provides an in-depth introduction to drill and ceremonies. The course concentrates on the elements of military drill, and describes individual and group precision movements, procedures for saluting, drill, ceremonies, reviews, parades and development of the command voice.

**PR: None**

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**The Wellness Program** is the Aerospace Science Physical Fitness Course (PE credit is given to AFJROTC students). The program focuses on individual base line improvement with the goal of achieving a national standard as calculated with age and gender.

**PR: None**

**Sequence of Air Force Junior ROTC courses may not be the same at all campuses. Please consult the campus Air Force Junior ROTC syllabus for the proper sequence of courses.**

**Naval Science 1 (9-12) #5611**

The first year of Naval Science focuses on military drill, military etiquette, naval customs and traditions, and physical fitness. Leadership and communication skills, Sea Power and the role of naval forces in history are also covered. The first year student will also be exposed to the sport of air rifle shooting with emphases on safety.

**PR: None**

SEM: 2 CR: 1

**Naval Science 2 (10-12) #5612**

The Naval Science 2 curriculum builds on the leadership and military drill foundations established in Naval Science 1. Academics include Maritime Military History and Sciences to include geography, oceanography, meteorology, astronomy, and physical science. Cadets will also be given opportunities for hands-on leadership experience.

**PR: NS-1 or equivalent**

SEM: 2 CR: 1

**Naval Science 3 (11-12) #5613**

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: NS-2 or equivalent**

SEM: 2 CR: 1

**Naval Science 4 (12) #5614**

This is the year cadets are "in charge". They are placed in leadership positions from the commander, supply, administration and operations and are held accountable. This is the graduation exercise for leadership. Cadets learn first hand what it takes to be a manager and a leader. They also command our drill teams, air rifle teams, physical fitness and academic teams.

**PR: NS-3 or equivalent**

SEM: 2 CR: 1

**Naval Science: Drill Team/Air Rifle Team (9-12)**

For Drill Team/Air Rifle Team Members Only.

SEM: 2 CR: 0

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**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.

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**JROTC CLASSES**

Air Force: Brandeis, Brennan, Clark, Holmes, Jay, O’Connor, Taft / Communications Arts, Warren, and Stevens

Naval Science: Marshall only

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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.
Northside Independent School District

*Note: These courses award state credit only if participation requirements are met.

Grades 9-12: Students may participate in classroom based Special Education CTE courses, as established by the ARD committee. These courses may begin at any grade level.

**Dollars and Sense** – Students will focus on consumer practices and responsibilities, the money management process, decision-making skills, impact of technology, and preparation for human services careers.

**Retailing and E-Tailing** – Students will have the opportunity to learn about business conduct, ethics and cultural diversity in a business. They will also complete transactions, returns and communicate effectively in a retail setting. Teamwork, leadership and organizational skills are identified and practiced throughout various scenarios.

**Entrepreneurship** – Students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles to begin and operate a business while also illustrating how to meet the needs of the customer.

Grade 11-12: Students may participate in the Career Preparation course I and II as established by the ARD committee for 3 periods. This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, and communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for training and workplace success. Students may participate in either AM or PM (community-based training-schedule permitting). A student cannot be enrolled in both AM and PM sections.

*Career Preparation includes the entire Department of Labor Work-Based Learning continuum for eligible students to include:
  - Career Exploration – up to 5 hours per skill set
  - Career Assessment – up to 90 hours per skill set
  - Work Related Training – up to 120 hours per skill set
  - Cooperative Work Experience –VAC 08 (Paid or Unpaid experience)

**Students considered for VAC 08 (paid or unpaid) must be discussed with Area Coordinator prior to the ARD.**

Grades 11-12: Students may participate in **Marketing Dynamics** as established by the ARDC for a 3 period course. Students will learn to use effective listening, reading, speaking, written and nonverbal communication skills effectively for targeted audiences. The students will have an opportunity to develop short and long term goals and will recognize that careers are ever changing and require self-assessment, research and preparation to develop and implement responsible decisions. Matching personal interests and aptitudes to selected careers, resume building, letters of application and mock employment interviews will also be a critical component of this course. This course may include a student internship/unpaid experience course with Area Coordinator experience.
NISD 4 Year Planning Guide

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<th>Name:</th>
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### 9TH GRADE
- **ENGLISH** PAP or Regular: English 1
- **MATH** PAP or Regular: Algebra 1 OR Geometry
- **SCIENCE** PAP or Regular: Biology
- **SOCIAL STUDIES** PAP or Regular: W. Geography

**ENDORSEMENT COURSE**
- Course
- Course

### 10TH GRADE
- **ENGLISH** PAP or Regular: English 2
- **MATH** PAP or Regular: Algebra 1 OR Geometry
- **SCIENCE** PAP or Regular: Biology
- **SOCIAL STUDIES** PAP or Regular: W. Geography

**ENDORSEMENT COURSE**
- Course
- Course

### 11TH GRADE
- **ENGLISH** PAP or Regular: English 3
- **MATH** PAP or Regular: Algebra 1 OR Geometry
- **SCIENCE** PAP or Regular: Biology
- **SOCIAL STUDIES** PAP or Regular: W. Geography

**ENDORSEMENT COURSE**
- Course
- Course

### 12TH GRADE
- **ENGLISH** PAP or Regular: English 4
- **MATH** PAP or Regular: Algebra 1 OR Geometry
- **SCIENCE** PAP or Regular: Biology
- **SOCIAL STUDIES** PAP or Regular: W. Geography

**ENDORSEMENT COURSE**
- Course
- Course

**MY ENDORSEMENT**: Multidisciplinary Studies  Arts & Humanities  Business & Industry  Public Service  STEM

**MY STRAND** (from reverse side): ______________________________________________________________________________________

**MY COHERENT SEQUENCE**:
- 9TH: ___________________  10TH: ___________________  11TH: ___________________  12TH: ___________________

**ADDITIONAL GRADUATION REQUIREMENTS**:

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<th>Course Name</th>
<th>Year Met Requirement</th>
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<td>1 credit of PE</td>
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<td>1 credit Fine Art</td>
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Alternative Courses: 1) ___________________  2) ___________________  3) ___________________
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*See graduation requirements on page 2.
Northside Independent School District
2017-2018 Calendar

5800 Evers Road
San Antonio, Texas 78238
Internet: www.nisd.net  Email: info@nisd.net
FIRST DAY OF SCHOOL: August 28, 2017  LAST DAY OF SCHOOL: June 6, 2018
FIRST SEMESTER: 88 days  SECOND SEMESTER: 89 days

July

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Grading Periods. Schools use 6 or 9-week grading periods. Report Cards will be sent on the last day of the next week following the end of the period.

Legend

- Student Holiday/Staff Development
- Student Holiday/Staff Work Day
- Teacher & Student Holiday
- Student Holiday/Half Staff Dev/Half Work Day
- Begin Semester
- End Semester
- End Six Weeks
- End Nine Weeks
- Bad Weather Makeup Day
- Feb. 19, 2018 (1st choice), June 7 (2nd choice)

Student Holidays

- July 4: Fourth of July holiday
- Sept. 4: Labor Day
- Oct. 9: Columbus Day/Student Holiday
- Nov. 20-21: Student Holiday/Staff Dev.
- Nov. 22-24: Thanksgiving Break
- Dec. 21-Jan. 2: Winter Break
- Jan. 15: Martin Luther King, Jr. Day
- Feb. 19: Student Holiday/Staff Dev/Staff
- Feb. 19: Weather Makeup Day
- March 12-16: Spring Break
- March 20: Easter Break
- April 27: Battle of Flowers
- May 28: Memorial Day
- June 7: Work Day/Bad Weather Makeup Day

See Counselor for course availability